DIP Switches



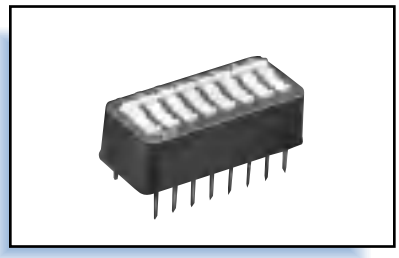
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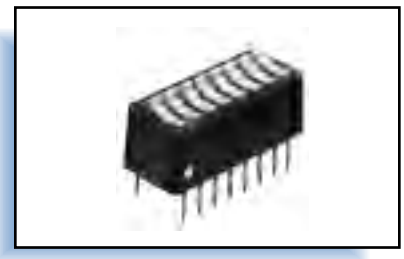
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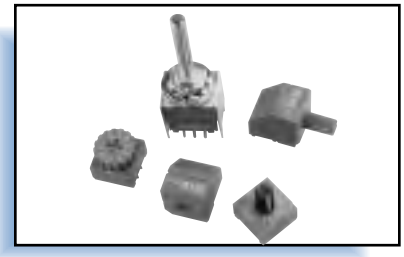
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A

DIP Switches

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Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Switches, Low Profile, Slide Actuator, Through Hole and Surface Mount

FEATURES:

- Conventional gold wiping contact system
- Available in PC and surface mount configurations
- Traditional tape seal standard
- 95% Minimum solder coverage (90/10 tin lead)
- Withstands wave soldering temperature of 245°C for 3-5 seconds
- Heat deflection temperature of 260°C for surface mount compatibility
- End stackable (GDS version)
- Auto-insertable (GDS and GDB version)
- Vacuum pick and place compatible (GDS, GDB and GDH)
- Half pitch .050" terminal spacing (GDH version)
- Available in optional tape & reel packaging
- Shipped in the off position

MATERIAL SPECIFICATIONS:

Moving Contact .....Gold over nickel over copper alloy
Fixed Contact .....Gold over nickel over copper alloy
Base Material .....PPS UL94V-0
Cover Material .....PPS UL94V-0
Actuator Material .....High temperature polyester/polyamide
Terminal .....Tin lead plated over nickel over copper alloy

TYPICAL PERFORMANCE CHARACTERISTICS:

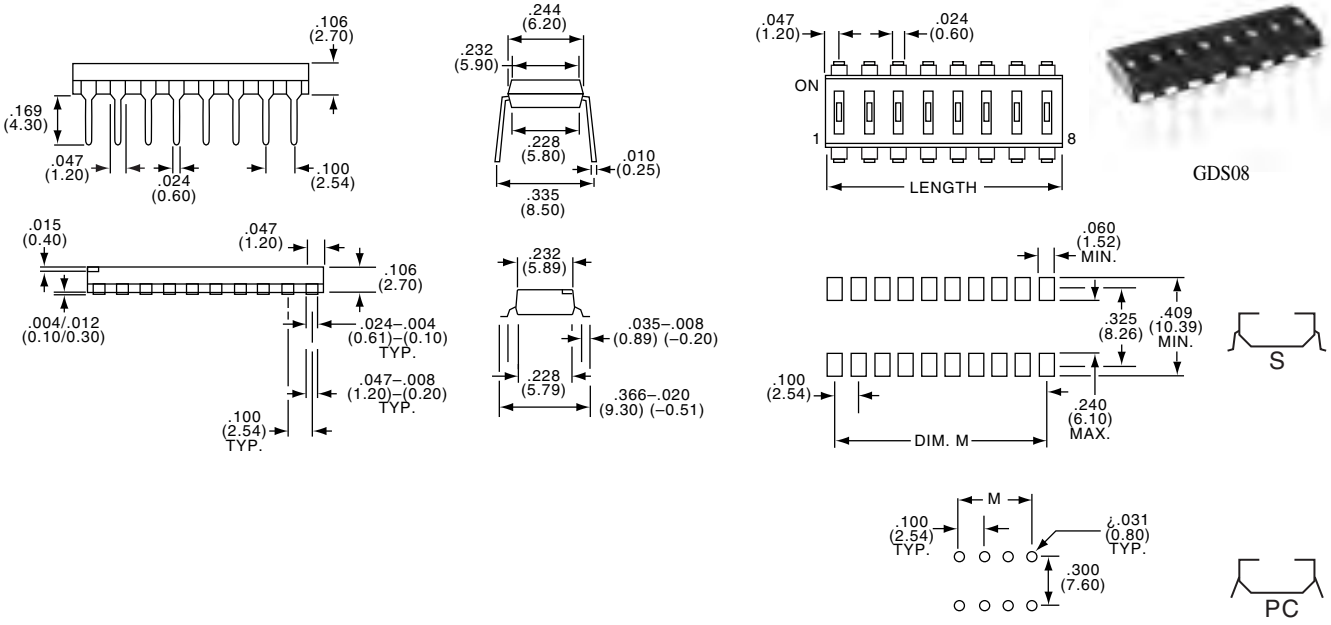
Contact Rating .....0.4 VA @ 24 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 250 VDC
Dielectric Strength .....300 VAC
Life Expectancy .....1,000 Cycles
Operating Force .....60-600 Grams

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-30°C to +85°C
Storage Temperature.....-45°C to +100°C
Solder Heat Resistance .....See page M3-4

End to End Stackable!

GDS
Low Profile Slide Actuator



Part Number								Poles	Length	Dim. M
PC Model		S Model		Tape & Reel		S Model No Tape				
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
5-1437590-5	GDS02	5-1437590-7	GDS02S	5-1437590-8	GDS02STR	5-1437590-6	GDS02NTS	2	.194(4.94)	.100(2.54)
5-1437590-9	GDS04	6-1437590-1	GDS04S	6-1437590-2	GDS04STR	6-1437590-0	GDS04NTS	4	.394(10.02)	.300(7.62)
6-1437590-3	GDS06	6-1437590-5	GDS06S	6-1437590-6	GDS06STR	6-1437590-4	GDS06NTS	6	.594(15.10)	.500(12.7)
6-1437590-7	GDS08	6-1437590-9	GDS08S	7-1437590-0	GDS08STR	6-1437590-8	GDS08NTS	8	.794(20.18)	.700(17.78)
7-1437590-1	GDS10	7-1437590-2	GDS10S	7-1437590-3	GDS10STR	—	—	10	.994(25.26)	.900(22.86)

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A

GD Series

DIP Switches, Piano Actuator, Through Hole and Surface Mount

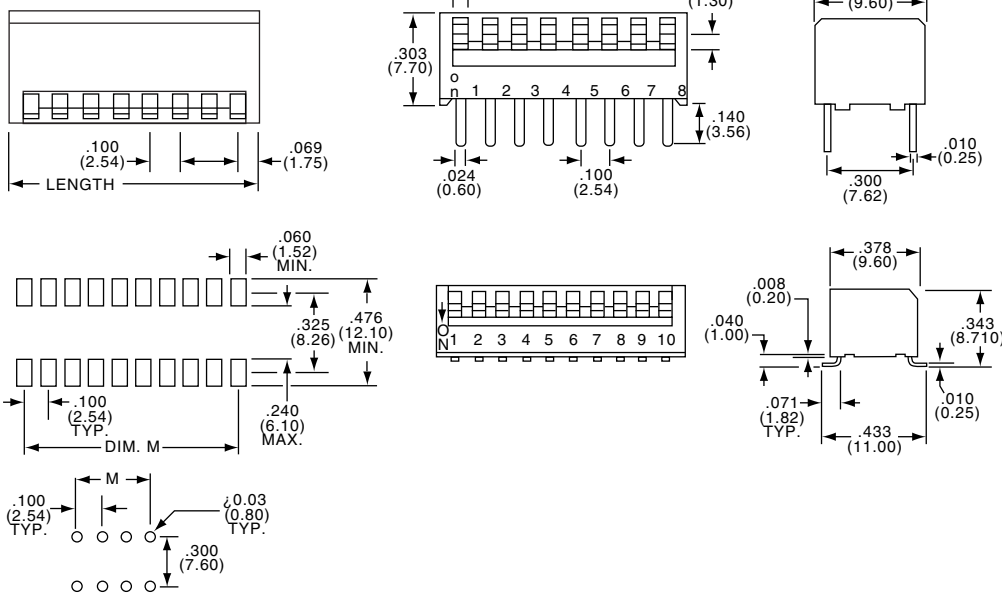
SEE PAGE A3 FOR PRODUCT SPECIFICATIONS

GDP

Classic Profile Piano Actuator



GDP08



Part Number								Poles	Length	Dim. M
PC Model		S Model		Tape and Reel		S Model No Tape				
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
3-1437590-2	GDP02	3-1437590-4	GDP02S	1571668-1	GDP02STR	3-1437590-3	GDP02NTS	2	.238(6.04)	.100(2.54)
3-1437590-5	GDP04	3-1437590-7	GDP04S	—	—	3-1437590-6	GDP04NTS	4	.438(11.12)	.300(7.62)
3-1437590-8	GDP06	3-1437590-9	GDP06S	—	—	—	—	6	.638(16.20)	.500(12.7)
4-1437590-0	GDP08	4-1437590-1	GDP08S	4-1437590-2	GDP08STR	—	—	8	.838(21.28)	.700(17.78)
4-1437590-3	GDP10	4-1437590-4	GDP10S	4-1437590-5	GDP10STR	—	—	10	1.038(26.36)	.900(22.86)

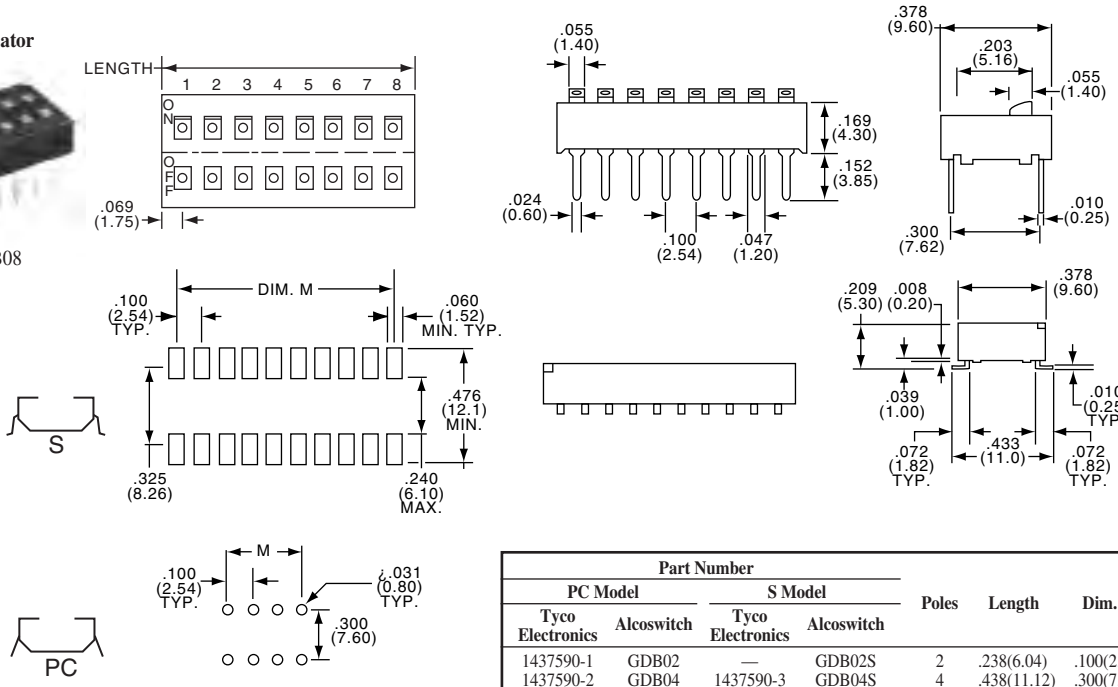
DIP Switches, Flush Rocker Actuator, Through Hole and Surface Mount

GDB

Flush Rocker Actuator



GDB08



Part Number				Poles	Length	Dim. M
PC Model		S Model				
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
1437590-1	GDB02	—	GDB02S	2	.238(6.04)	.100(2.54)
1437590-2	GDB04	1437590-3	GDB04S	4	.438(11.12)	.300(7.62)
1437590-4	GDB06	1437590-5	GDB06S	6	.638(16.20)	.500(12.7)
1437590-6	GDB08	1437590-7	GDB08S	8	.838(21.28)	.700(17.78)
1437590-8	GDB10	1437590-9	GDB10S	10	1.038(26.36)	.900(22.86)

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DIP Switches, Recessed Rocker, Through Hole and Surface Mount

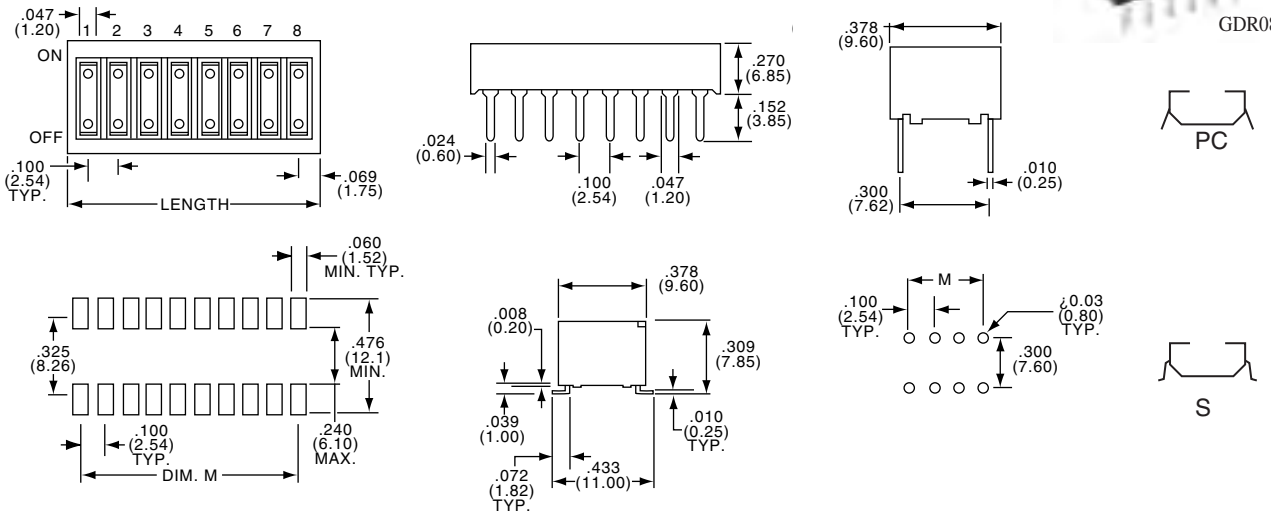
SEE PAGE A3 FOR PRODUCT SPECIFICATIONS

GDR
Classic Profile
Recessed Rocker Actuator



GDR08

Part Number				Poles	Length	Dim. M
PC Model		S Model				
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
4-1437590-6	GDR02	4-1437590-7	GDR02S	2	.238(6.04)	.100(2.54)
4-1437590-8	GDR04	4-1437590-9	GDR04S	4	.438(11.12)	.300(7.62)
5-1437590-0	GDR06	5-1437590-1	GDR06S	6	.638(16.20)	.500(12.7)
5-1437590-2	GDR08	5-1437590-3	GDR08S	8	.838(21.28)	.700(17.78)
5-1437590-4	GDR10	—	GDR10S	10	1.038(26.36)	.900(22.86)

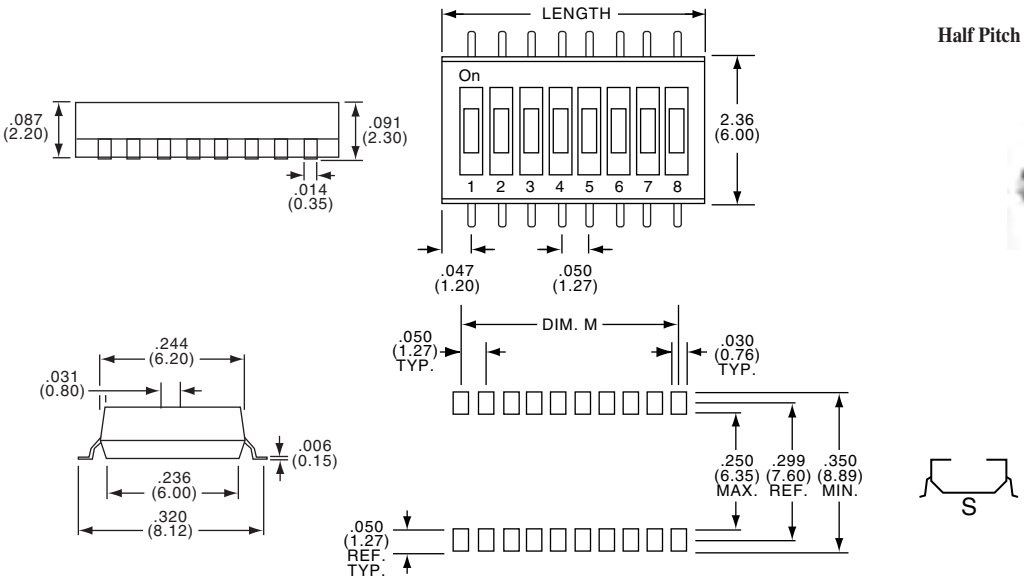


DIP Switches, Half Pitch, Low Profile

GDH
Half Pitch .050" Terminal Spacing



GDH08S



Part Number				Poles	Length	Dim. M
PC Model		S Model				
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
1-1437590-0	GDH02S	1-1437590-3	GDH02STR	2	.144(3.66)	.050(1.27)
1-1437590-4	GDH04S	1-1437590-6	GDH04STR	4	.244(6.20)	.150(3.81)
1-1437590-9	GDH06S	2-1437590-1	GDH06STR	6	.344(8.75)	.250(6.35)
2-1437590-2	GDH08S	2-1437590-4	GDH08STR	8	.444(11.29)	.350(8.89)
2-1437590-6	GDH10S	2-1437590-8	GDH10STR	10	.544(13.82)	.450(11.43)

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UK: 44-141-810-8967

DIP Switches, Half Pitch, Ultra Low Profile, .067" High

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, gold plate over nickel
Case Material .....High temperature polyamide, UL 94V-0
Actuator Material .....High temperature polyester, 94V-0
Moving Contact .....Copper alloy, gold plate over nickel
Fixed Contact .....Copper alloy, gold plate over nickel
Terminals .....Copper alloy, gold flash over nickel

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-30°C to +85°C (-22°F to +185°F)
Storage Temperature.....-45°C to +100°C (-49°F to +212°F)

TYPICAL PERFORMANCE CHARACTERISTICS:

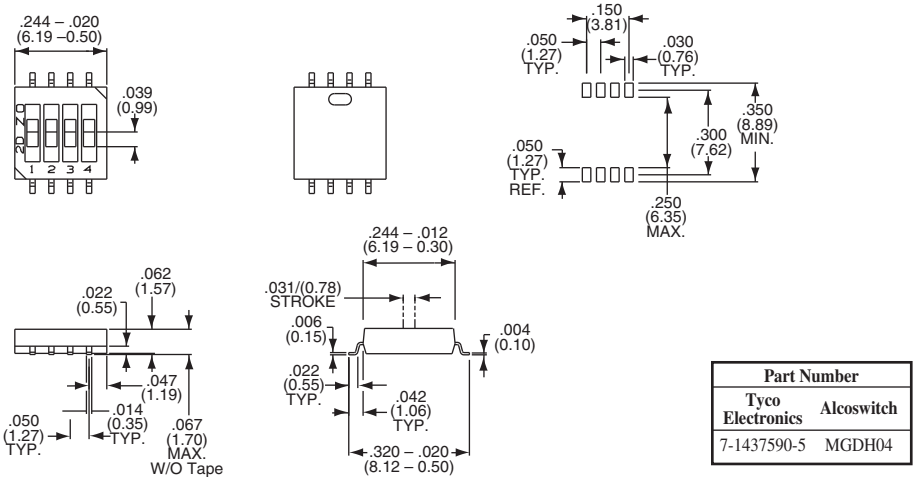
Contact Rating .....Non-switching: 100 Milliamps @ 50 VDC
Switching: 25 Milliamps @ 24 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....300 VAC, 1 minute
Actuation Force .....60 - 600 Grams max.
Life Expectancy .....1,000 Cycles min.

MGDH

Half Pitch .050" Terminal Spacing, .067" High



MGDH04



Part Number	
Tyco Electronics	Alcoswitch
7-1437590-5	MGDH04

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DIP Switches, Extended Actuator, Auto Insertable, Through Hole and Surface Mount

FEATURES:

- Available in PC or surface mount termination.
- High pressure wiping contact allows aqueous or solvent cleaning without tape seal.
- Auto-insertable
- Tape Seal version available for vacuum pick-n-place
- Unique design can withstand vapor phase reflow or wave soldering conditions.
- Gas tight contacts
- Shipped in the off position

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-30°C to + 85°C
Storage Temperature .....-45°C to + 100°C
Solder Heat Resistance.....245°C ± 5°C with switch in "off" position 30 seconds when mounted on a .060" thick PCB per MIL-STD202, Method 210
Cleaning.....Aqueous solution or solvent

MATERIAL SPECIFICATIONS:

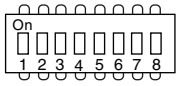
Base and Cover .....PPS-UL94V-0, (Black)
Actuator.....PA6T-UL94V-0, (White)
Fixed Contact/Terminal .....Copper alloy plate-solder/copper
Moving Contact .....Copper alloy plate-gold/nickel

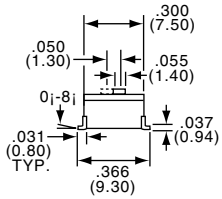
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC max.
Max Rating Switching–100 Milliamp @ 24VDC
Min Rating Switching–1 Microamp @ 1 Millivolt
Max Rating Non Switching–1 Amp @ 5VDC
Initial Contact Resistance.....50 Milliohms max.
Insulation Resistance .....1,000 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC
Operating Force .....Less than 800 grams
Actuator Travel .....AD/R Series 1.30mm/.050" piano style 25°
Life Expectancy .....1,000 Cycles

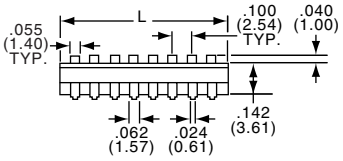
No Tape Seal Required

ADE





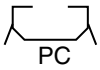
S Termination Shown

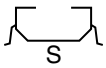




ADE08

Extended Actuator







PC Term.		"S" Term.		"SA" Term.		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
1437586-2	ADE02	1437586-4	ADE02S	1437586-5	ADE02SA	2	Slide	.278(7.06)
1437586-7	ADE03	1437586-8	ADE03S	—	ADE03SA	3	Slide	.378(9.60)
1-1437586-0	ADE04	1-1437586-2	ADE04S	1-1437586-3	ADE04SA	4	Slide	.478(12.14)
1-1437586-5	ADE05	1-1437586-7	ADE05S	—	ADE05SA	5	Slide	.578(14.68)
1-1437586-8	ADE06	2-1437586-0	ADE06S	2-1437586-1	ADE06SA	6	Slide	.678(17.22)
2-1437586-3	ADE07	2-1437586-5	ADE07S	—	ADE07SA	7	Slide	.778(19.76)
2-1437586-6	ADE08	2-1437586-8	ADE08S	2-1437586-9	ADE08SA	8	Slide	.878(22.30)
3-1437586-0	ADE09	—	ADE09S	—	ADE09SA	9	Slide	.978(24.84)
3-1437586-2	ADE10	3-1437586-7	ADE10S	—	ADE10SA	10	Slide	1.078(27.38)
3-1437586-8	ADE12	1571337-1	ADE12S	—	ADE12SA	12	Slide	1.278(32.51)

See Page A9 for PC Pad Layout.

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A

AD Series

DIP Switches, Flush Acutuator, Auto Insertable, Through Hole, and Surface Mount

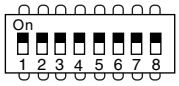
SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

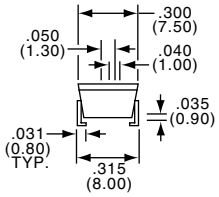
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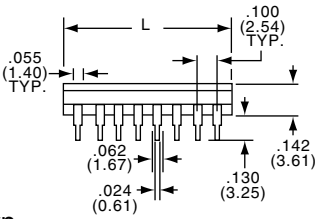


ADF08S
Flush Actuator

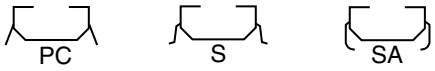
See Page A9 for PC Pad Layout.







SA Termination Shown



PC Term.		PC Term. w/Tape		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
4-1437586-2	ADF02	5-1437586-0	ADF02T	2	Slide	.278(7.06)
5-1437586-1	ADF03	5-1437586-6	ADF03T	3	Slide	.378(9.60)
5-1437586-7	ADF04	6-1437586-4	ADF04T	4	Slide	.478(12.14)
6-1437586-5	ADF05	7-1437586-0	ADF05T	5	Slide	.578(14.68)
7-1437586-1	ADF06	8-1437586-0	ADF06T	6	Slide	.678(17.22)
8-1437586-1	ADF07	8-1437586-5	ADF07T	7	Slide	.778(19.76)
8-1437586-6	ADF08	9-1437586-5	ADF08T	8	Slide	.878(22.30)
9-1437586-6	ADF09	—	ADF09T	9	Slide	.978(24.84)
1437587-1	ADF10	1437587-7	ADF10T	10	Slide	1.078(27.38)
—	ADF12	1571336-1	ADF12T	12	Slide	1.278(32.51)

"S" Term.		"S" Term. w/Tape Seal		Tape & Reel		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
4-1437586-4	ADF02S	4-1437586-8	ADF02ST	4-1437586-9	ADF02STTR	2	Slide	.278(7.06)
5-1437586-2	ADF03S	5-1437586-4	ADF03ST	5-1437586-5	ADF03STTR	3	Slide	.378(9.60)
5-1437586-9	ADF04S	6-1437586-3	ADF04ST	1437583-6	ADF04STTR	4	Slide	.478(12.14)
6-1437586-6	ADF05S	6-1437586-8	ADF05ST	6-1437586-9	ADF05STTR	5	Slide	.578(14.68)
7-1437586-5	ADF06S	7-1437586-8	ADF06ST	7-1437586-9	ADF06STTR	6	Slide	.678(17.22)
8-1437586-2	ADF07S	8-1437586-3	ADF07ST	8-1437586-4	ADF07STTR	7	Slide	.778(19.76)
8-1437586-8	ADF08S	9-1437586-1	ADF08ST	9-1437586-2	ADF08STTR	8	Slide	.878(22.30)
9-1437586-7	ADF09S	9-1437586-8	ADF09ST	9-1437586-9	ADF09STTR	9	Slide	.978(24.84)
1437587-3	ADF10S	1437587-5	ADF10ST	1437587-6	ADF10STTR	10	Slide	1.078(27.38)
1437587-8	ADF12S	—	ADF12ST	1437587-9	ADF12STTR	12	Slide	1.278(32.51)

"SA" Term.		"SA" Term. w/Tape Seal		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
4-1437586-5	ADF02SA	4-1437586-6	ADF02SAT	2	Slide	.278(7.06)
5-1437586-3	ADF03SA	—	ADF03SAT	3	Slide	.378(9.60)
6-1437586-0	ADF04SA	6-1437586-1	ADF04SAT	4	Slide	.478(12.14)
—	ADF05SA	—	ADF05SAT	5	Slide	.578(14.68)
7-1437586-6	ADF06SA	7-1437586-7	ADF06SAT	6	Slide	.678(17.22)
—	ADF07SA	—	ADF07SAT	7	Slide	.778(19.76)
8-1437586-9	ADF08SA	9-1437586-0	ADF08SAT	8	Slide	.878(22.30)
—	ADF09SA	—	ADF09SAT	9	Slide	.978(24.84)
—	ADF10SA	1437587-4	ADF10SAT	10	Slide	1.078(27.38)
—	ADF12SA	—	ADF12SAT	12	Slide	1.278(32.51)

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DIP Switches, Piano Acutuator, Auto Insertable, Through Hole, and Surface Mount

ADP

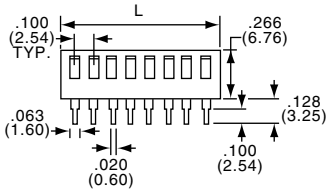


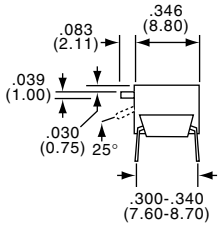
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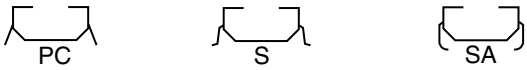
Piano Actuator

"PC" Termination Shown

SEE PAGE A7 FOR PRODUCT SPECIFICATIONS



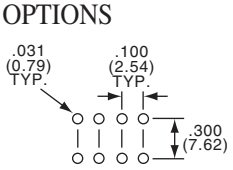




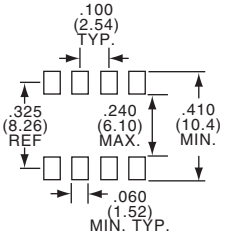
Lever Down "On"		"S" Term Lever Down "On"		"SA" Term. Lever Down "On"		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
1-1437587-1	ADP02	1-1437587-2	ADP02S	1-1437587-3	ADP02SA	2	Piano	.278(7.06)
1-1437587-5	ADP04	1-1437587-7	ADP04S	1-1437587-8	ADP04SA	4	Piano	.478(12.14)
2-1437587-0	ADP05	2-1437587-1	ADP05S	—	ADP05SA	5	Piano	.578(14.68)
2-1437587-2	ADP06	2-1437587-3	ADP06S	2-1437587-4	ADP06SA	6	Piano	.678(17.22)
2-1437587-5	ADP07	—	ADP07S	—	ADP07SA	7	Piano	.778(19.76)
2-1437587-6	ADP08	2-1437587-8	ADP08S	2-1437587-9	ADP08SA	8	Piano	.878(22.30)
3-1437587-0	ADP09	—	ADP09S	3-1437587-1	ADP09SA	9	Piano	.978(24.84)
3-1437587-3	ADP10	3-1437587-6	ADP10S	—	ADP10SA	10	Piano	1.078(27.38)

Lever Up "On"		"S" Term Lever Up "On"		"SA" Term. Lever Up "On"		No. of Positions	Actuator Style	Dim. L
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			
4-1437587-7	ADPA02	—	ADPA02S	—	ADPA02SA	2	Piano	.278(7.06)
4-1437587-8	ADPA04	5-1437587-0	ADPA04S	5-1437587-1	ADPA04SA	4	Piano	.478(12.14)
5-1437587-2	ADPA05	5-1437587-3	ADPA05S	—	ADPA05SA	5	Piano	.578(14.68)
5-1437587-4	ADPA06	5-1437587-5	ADPA06S	5-1437587-6	ADPA06SA	6	Piano	.678(17.22)
5-1437587-7	ADPA07	—	ADPA07S	—	ADPA07SA	7	Piano	.778(19.76)
5-1437587-8	ADPA08	6-1437587-0	ADPA08S	—	ADPA08SA	8	Piano	.878(22.30)
—	ADPA09	—	ADPA09S	—	ADPA09SA	9	Piano	.978(24.84)
6-1437587-1	ADPA10	—	ADPA10S	—	ADPA10SA	10	Piano	1.078(27.38)

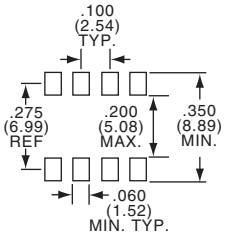
TERMINATION OPTIONS



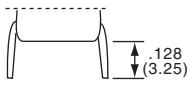
PC Termination

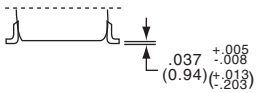


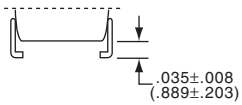
S Termination



SA Termination







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Hybrid DIP Switches, Through Hole and Surface Mount

AUTO-INSERTABLE* DIP SWITCH
WITH INTEGRAL RESISTORS

* Flush actuator versions are auto-insertable

SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

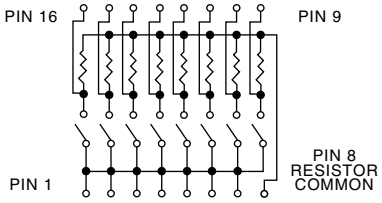
FEATURES:

All the features of the AD SERIES - PLUS

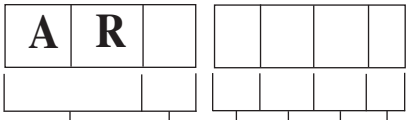
- Thick film pull-up resistors molded into the base of the switch.
- Replaces discrete resistor network plus DIP Switch with one component.
- Available with 3.3K ohms or 10K ohms resistors.
- Ceramic substrate allows wave soldering temperatures of 245°C for up to 30 seconds per MIL-STD 202, Method 210.
- Custom resistor values available.
- Shipped in off position.

Rated Pwr.	Resistance	Tolerance	Max. Voltage
125 mW	3.3K Ohms (red)	±5% at 85°C	24V
125 mW	10K Ohms (green)	±5% at 85°C	24V

RESISTOR NETWORK INFORMATION



HOW TO ORDER



Series
Auto-Dip with Resistors

Actuator Style
E = Extended
F = Flush Auto-Insertable
P = Piano (On Down)
PA = Piano (On Up)

See Pages A7-A9 for dimensional info.

No. of Positions
02, 04, 06, 08, 10

Resistor Value
3.3K Ohms (Red case)
10K Ohms (Green case)
Custom values are available on special order

Terminations
Blank = PC
S = Outside "L" (SMT)
SA - Inside "L" (SMT)

See Page A9 for board layout.

Seal Type
Blank = No seal
T = Tape (flush actuator only)

Example: ARF 06 10KST = Auto-Dip
Flush actuator
06 positions
10K ohms resistors
Outside "L" terminations & tape seal

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UK: 44-141-810-8967

DIP Switches



Alcoswitch 7000 Series DIP switches are available in standard single pole, single throw; side actuated, single pole, single throw and multiple series versions. Contacts are made of high strength copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel plating in contact area and legs plated to meet Tyco Electronics Solderability Specification 109-11-3.

The multiple series switches offer the unique feature of single pole switches coupled mechanically to provide switching of various poles simultaneously. This allows flexibility in programming.

Multipole switches are available with or without lever-actuated rockers and in a variety of configurations in addition to those listed. The maximum number of poles that can be ganged is six.

Performance Characteristics

Current and Voltage Rating:
Nonswitching — 1.5 amperes max. at 50 VDC
Switching — 100 milliamperes max at 5 VDC (resistive load);
25 milliamperes max. at 24 VDC (resistive load)

Contact Resistance, Dry Circuit:
100 milliohms max. (end of life) and 50 milliohms (initial) at 50 mV open circuit, 50 milliamperes

Insulation Resistance:
1×10^9 ohms min. at 100 VDC (initial)

Dielectric Withstanding Voltage:
500 VDC min. at standard atmosphereic conditions

Capacitance:
5 picofarads max.

Temperature Rating:
Nonoperating — -73.3°C to +105°C
Operating — -55°C to +105°C

Vibration:
Discontinuities shall not exceed 10 microseconds when subjected to 10-2000-10 Hz transversing for 20 minutes at .060 [1.52] inches total excursion

Shock:
No physical damage or discontinuities greater than 10 microseconds when tested with .10 ampere current applied per Tyco Electronics Specification 109-26, Condition A

Humidity:
Withstands an environment of +40°C and 95% RH for 96 hours

Durability:
No physical damage or contact resistance greater than 100 milliohms up to 7000 cycles of actuation with a resistive load of 24 VDC and 25 milliamperes max. current applied

Terminal Strength (Bend Test):
Two (2) 45° bend cycles per MIL-STD-202, Method 211, Condition B

Materials

Housing:
Glass-filled polyester, 94V-0 rated, black

Rocker:
Thermoplastic, 94V-0 rated, white

Spring Contacts and Leads:
Copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel in contact area and .000150 [0.00381] tin-lead over .000050 [0.00127] nickel on solder legs, plated to meet Tyco Electronics Solderability Specification 109-11-3.

Technical Documents

Product Specification:
108-7519
Instruction Sheet:
408-07779
Application Specification:
114-1056

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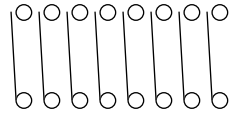
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Switches, Piano Style Actuator

Single Pole
Single Throw
Side Actuated
Low Profile

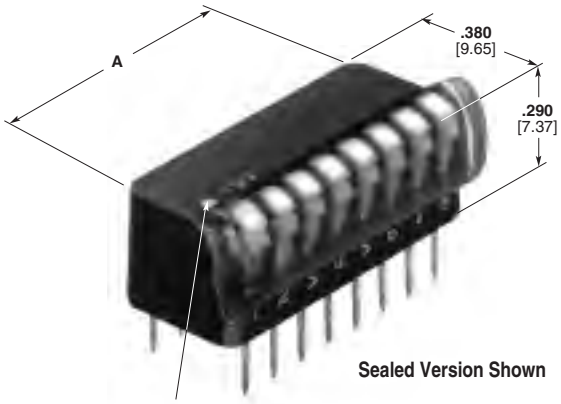
Contact Lead Spacing — .100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56] below mounting surface

Contact Arrangement

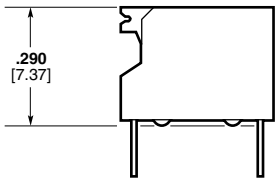


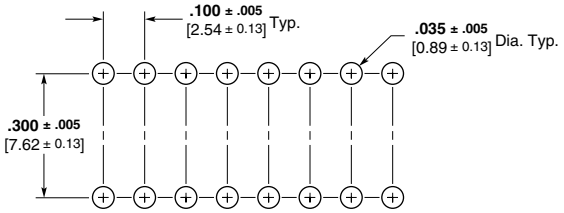
Pin 1

Note: Switches shown in open position



Sealed Version Shown





Recommended PC Board Hole Pattern

No. of Switches	Dim. A		SPST Side Actuated Part No.		
	inch	mm	Unsealed[1]	Sealed	Tape Sealed
2	.280	7.11	1-435802-0	—	—
3	.380	9.65	435802-2	—	—
4	.480	12.19	435802-3	1-435802-5	—
5	.580	14.73	435802-4	1-435802-6	—
6	.680	17.27	435802-5	1-435802-7	—
7	.780	19.81	435802-6	1-435802-8	—
8	.880	22.35	435802-1	435802-9	3-435802-8
9	.980	24.89	435802-7	1-435802-9	—
10	1.080	27.43	435802-8	2-435802-0	—
11	1.180	29.97	—	2-435802-1	—
12	1.280	32.51	—	2-435802-2	—

[1] All switches are bottom sealed.

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Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

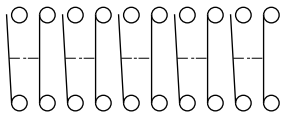
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Switches, Extended Actuator, Single or Double Pole, Double Throw

Multiple Single Pole Double Throw

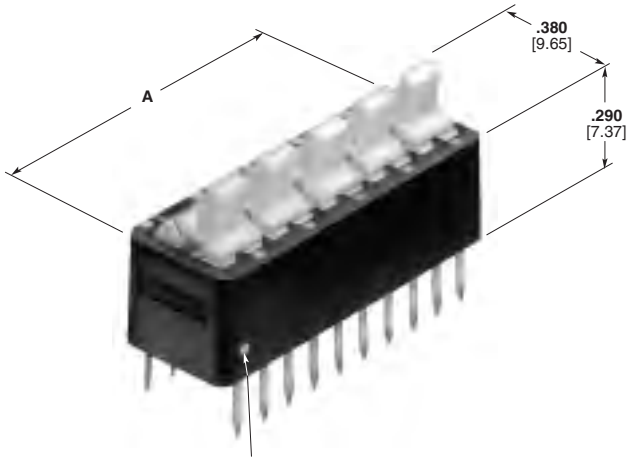
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

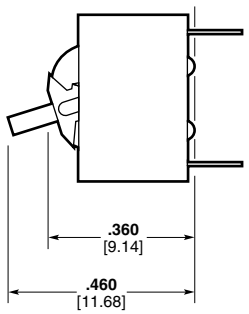


Pin 1

Note: Switch positions are closed when rockers are down toward white dots. Switches have make-before-break circuit design.



White Dot Identifies Pin 1



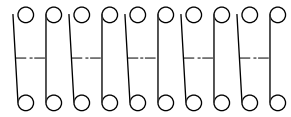
Extended Lever Actuator Shown

No. of Switches	Dim. A		SPDT Part No.	
	inch	mm	Low Profile Actuator	Extended Lever Actuator
1	.280	7.11	435470-7	2-435470-1
2	.480	12.19	435470-1	2-435470-2
3	.680	17.27	435470-2	—
4	.880	22.35	435470-3	2-435470-4
5	1.080	27.43	—	2-435470-5
6	1.280	32.51	—	2-435470-6

Double Pole Double Throw

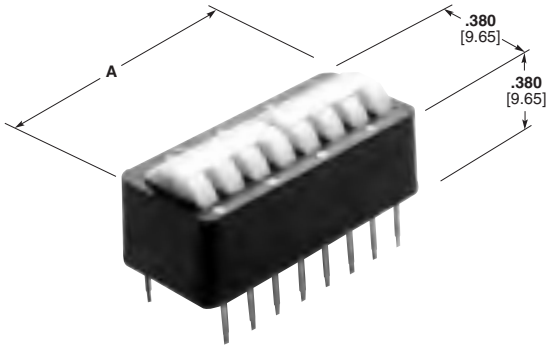
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

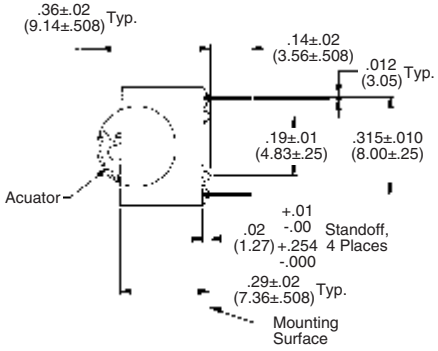
Contact Arrangement



Pin 1

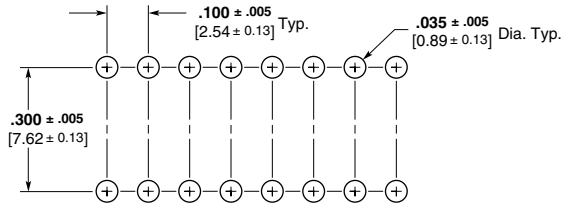
Note: Switch positions are closed when rockers are down toward white dots. Switches have make-before-break circuit design.





Low Profile Lever Actuator Shown

No. of Switches	Dim. A		DPDT Part No.	
	inch	mm	Low Profile Actuator	Extended Lever Actuator
1	.480	12.19	435470-5	3-435470-1
2	.880	22.35	435470-9	—



Recommended PC Board Hole Pattern

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

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Dimensions are shown for reference purposes only. Specifications subject to change.

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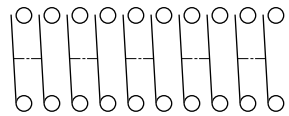
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Switches, Extended Actuator, Multiple Pole, Single Throw

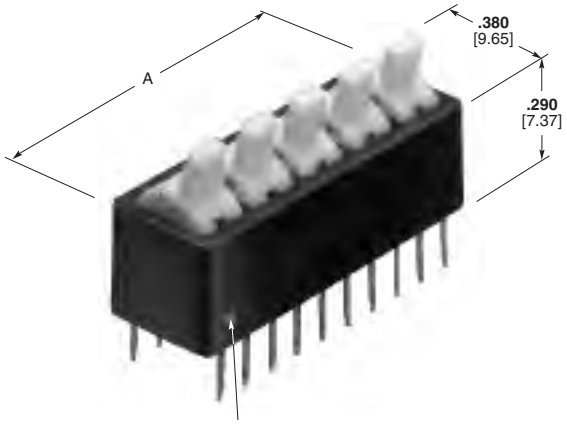
Multiple Double Pole Single Throw

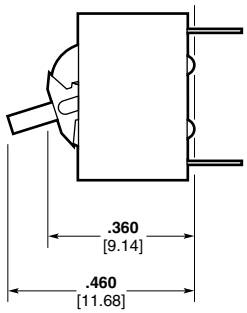
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



Note: Switches shown in open position.





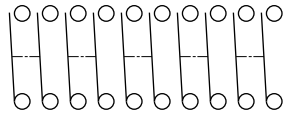
Extended Lever Actuator Shown

No. of Switches	Dim. A		DPST Part No.	
	inch	mm	Low Profile Actuator	Extended Lever Actuator
1	.280	7.11	435469-9	2-435469-1
2	.480	12.19	—	2-435469-2
4	.880	22.35	435469-3	2-435469-4
5	1.080	27.43	—	2-435469-5
6	1.280	32.51	—	2-435469-6

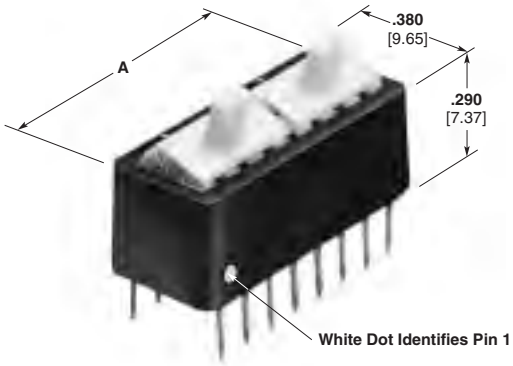
4-Pole Single Throw

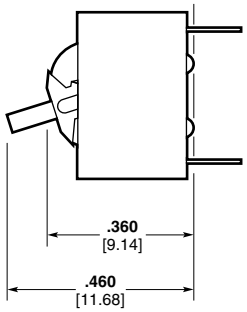
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



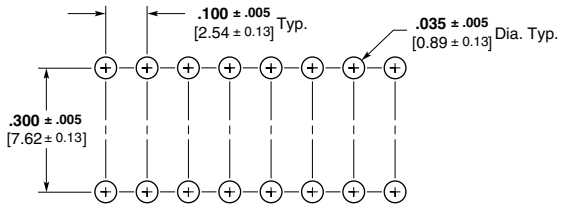
Note: Switches shown in open position.





Extended Lever Actuator Shown

No. of Switches	Dim. A		4PST Part No.	
	inch	mm	Low Profile Actuator	Extended Lever Actuator
1	.480	12.19	435469-7	3-435469-1



Recommended PC Board Hole Pattern

Catalog 1308390
Issued 9-04

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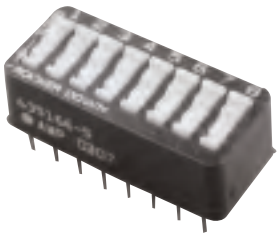
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

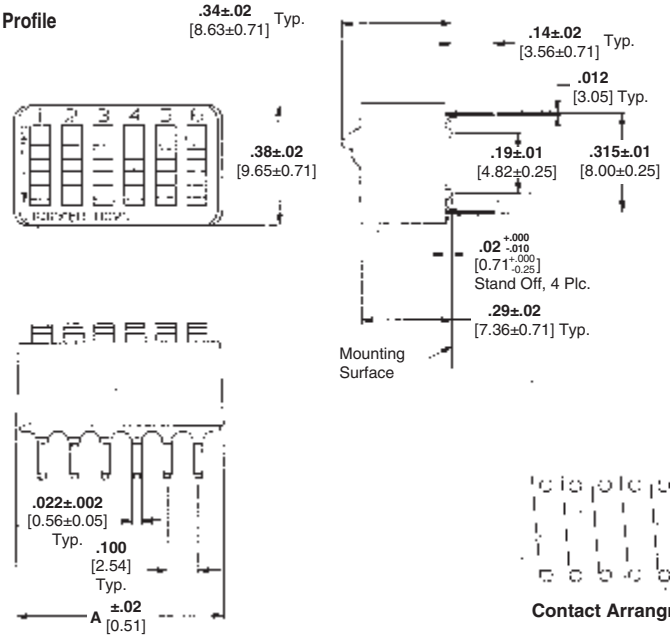
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Switches, Rocker Style Actuator

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface



Standard Profile

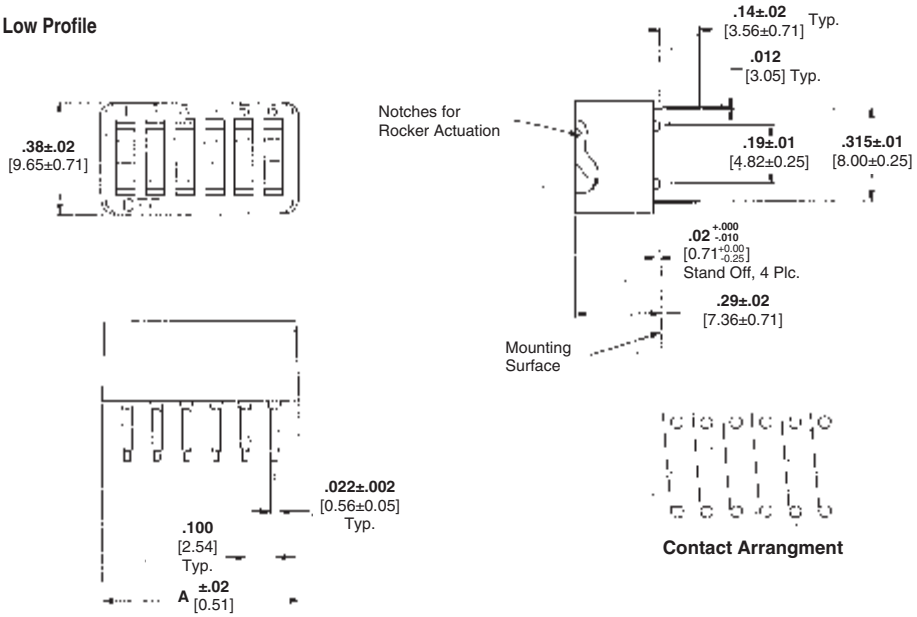


Contact Arrangment

Low Profile

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface





Contact Arrangment

Number of Switches	SPST Standard Profile		SPST Low Profile	
	Unsealed	Sealed	Unsealed	Tape Sealed
2	2-435166-9	—	—	3-435626-6
3	—	—	—	3-435626-7
4	435166-2	4-435166-9	435626-1	3-435626-8
5	—	5-435166-0	435626-2	—
6	435166-4	5-435166-1	—	4-435626-0
7	435166-1	5-435166-2	—	4-435626-1
8	435166-5	5-435166-3	435626-5	4-435626-2
9	435166-6	—	—	—
10	435166-7	5-435166-5	—	4-435626-4

Catalog 1308390
Issued 9-04

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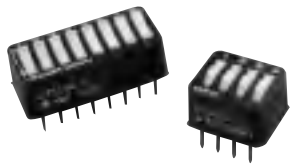
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UK: 44-141-810-8967

DIP Switches



Alcoswitch 7100 Series DIP Switches are recommended for programming applications where the number of cycles per pole is limited. These single pole, single throw switches have been designed for a life of up to 2000 cycles per pole and feature contacts of copper alloy with .000030 [0.00076] gold over nickel plating in the contact area and legs plated to meet Tyco Electronics Solderability Specification 109-11-3. In addition, the SPST standard and low profile switches are also available with a top seal to provide protection during soldering and cleaning processes.

Performance Characteristics

Current and Voltage Rating:
Nonswitching — 1.0 amperes max. at 40 VDC
Switching — 60 milliamperes max at 5 VDC (resistive load);
15 milliamperes max. at 24 VDC (resistive load)

Contact Resistance, Dry Circuit:
100 milliohms max. (end of life) and 50 milliohms (initial) at 50 mV open circuit, 50 milliamperes

Insulation Resistance:
1×10^9 ohms min. at 100 VDC (initial)

Dielectric Withstanding Voltage:
500 VDC min. at standard atmosphereic conditions

Capacitance:
5 picofarads max.

Temperature Rating:
Nonoperating — -73°C to +105°C
Operating — -55°C to +105°C

Vibration:
Discontinuities shall not exceed 10 microseconds when subjected to 10-2000-10 Hz transversing for 20 minutes at .060 [1.52] inches total excursion

Shock:
No physical damage or discontinuities greater than 10 microseconds when tested with .10 ampere current applied per Tyco Electronics Specification 109-26, Condition A

Humidity:
Withstands an environment of +40°C and 95% RH for 96 hours

Durability:
No physical damage or contact resistance greater than 100 milliohms after 2000 cycles of actuation with a resistive load of 24 VDC and 25 milliamperes max. current applied

Terminal Strength (Bend Test):
Two (2) 45° bend cycles per MIL-STD-202, Method 211, Condition B

Materials

Housing:
Glass-filled polyester, 94V-0 rated, blue

Rocker:
Thermoplastic, 94V-0 rated, white

Spring Contacts and Leads:
Copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel in contact area and .000150 [0.00381] tin-lead over .000050 [0.00127] nickel on solder legs, plated to meet Tyco Electronics Solderability Specification 109-11-3.

Technical Documents

Product Specification:
108-7532
Instruction Sheet:
408-07779
Application Specification:
114-1056

Catalog 1308390
Issued 9-04
www.tycoelectronics.com

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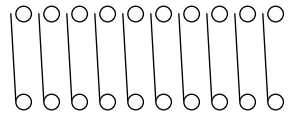
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DIP Switches, Rocker Style Actuator

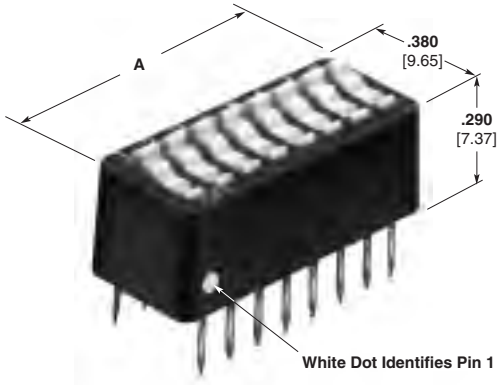
Single Pole Single Throw

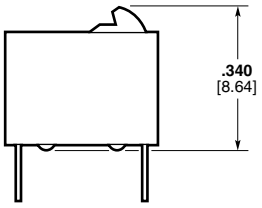
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



Note: Switches shown in open position.

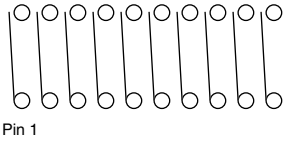




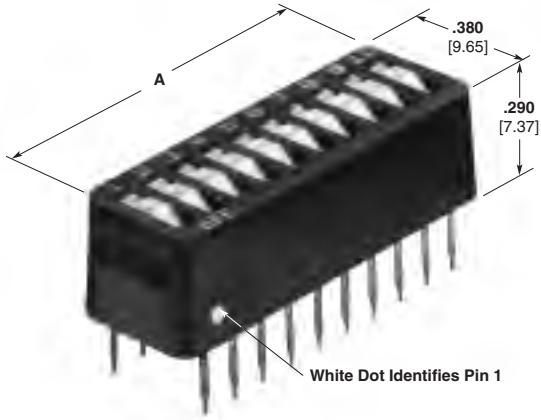
Single Pole Single Throw Low Profile

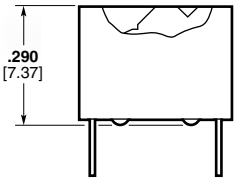
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

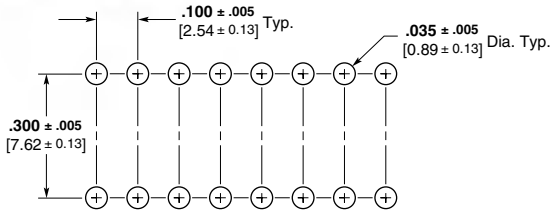
Contact Arrangement



Note: Switches shown in open position.







Recommended PC Board Hole Pattern

No. of Switches	Dim. A		SPST Standard Profile		SPST Low Profile	
	inch	mm	Unsealed[1] Part No.	Sealed Part No.	Unsealed[1] Part No.	Tape Sealed Part No.
2	.280	7.11	2-435640-9	—	435668-1	2-435668-6
3	.380	9.65	3-435640-0	—	—	3-435668-3
4	.480	12.19	435640-2	3-435640-5	435668-3	3-435668-4
5	.580	14.73	435640-3	3-435640-6	435668-4	3-435668-5
6	.680	17.27	435640-4	3-435640-7	435668-5	2-435668-5
7	.780	19.81	435640-1	3-435640-8	—	2-435668-7
8	.880	22.35	435640-5	3-435640-9	435668-7	2-435668-8
9	.980	24.89	435640-6	4-435640-0	—	2-435668-9
10	1.080	27.43	435640-7	4-435640-1	435668-9	3-435668-0
11	1.180	29.97	—	—	—	3-435668-1
12	1.280	32.51	3-435640-2	4-435640-3	—	3-435668-2

[1] All switches are bottom sealed.

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UK: 44-141-810-8967

A

S Series

Sip Switches, Low Profile, Vertical and Right Angle

FEATURES:

- End-to-end stackable in .100" center (SSV/SLV) versions
- High pressure wiping contacts allows aqueous or solvent cleaning
- Gas tight contacts (280,000 PSI)
- Ceramic substrate allows wave soldering temperature of 245° for up to 10 seconds (SLV Version)
- 2 SIP switches take up less board space than 1 DIP switch

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-30°C to +85°C
Storage Temperature .....-45°C to +100°C
Solder Heat Resistance .....Wave soldering temperatures of 245°C ± 5°C with switch in off position 30 seconds when mounting on a .060" thick PCB per MIL-STD 202, Method 210

MATERIAL SPECIFICATIONS:

Base .....PPS 94V-0/Encapsulated Ceramic (SLV/SLH)
Cover .....PBT 94V-0
Contacts .....Gold flashed Beryllium copper
Actuator Material .....Polyamide
Terminals/Fixed Contacts .....Solder coated copper alloy
Terminal Seal .....Insert molded
Process Seal .....Gas tight contacts

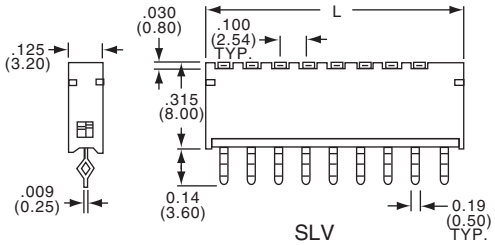
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC max.
Initial Contact Resistance .....50 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC
Actuation Force .....800 Grams max.
Actuator Travel .....50°
Life Expectancy .....1,000 Cycles

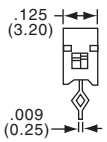
SSV

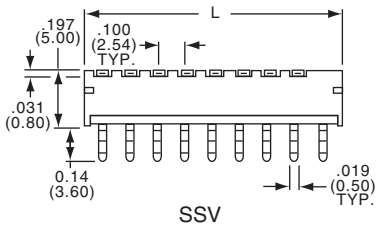


SSVO8



SLV





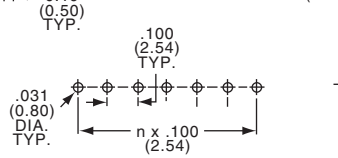
SSV

SLV



SLVO8

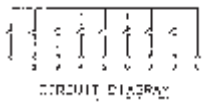
Model		No. of Positions	Dim. L
Tyco Electronics	Alcoswitch		
2-1437589-2	SSV02	2	0.298
2-1437589-3	SSV04	4	0.498
2-1437589-4	SSV06	6	0.698
2-1437589-6	SSV08	8	0.898
2-1437589-7	SSV10	10	1.098
1-1437589-5	SLV04	4	0.498
1-1437589-6	SLV08	8	0.898



(n) INDICATES NUMBER OF POSITIONS

SLV and SSV



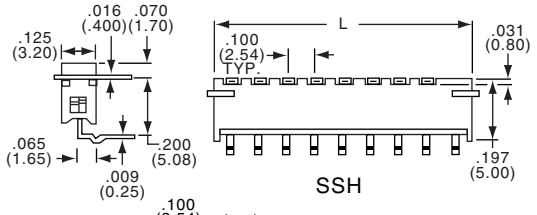


CIRCUIT DIAGRAM

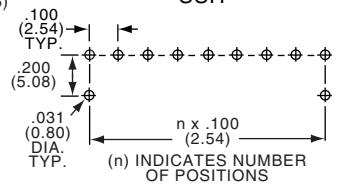
SSH



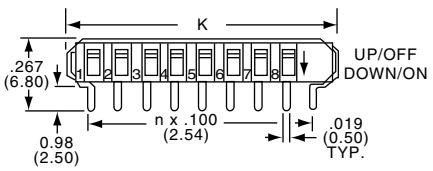
SSH06



SSH

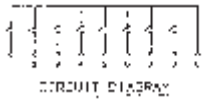


(n) INDICATES NUMBER OF POSITIONS



SSH

Model		No. of Positions	Dim. L	Dim. K
Tyco Electronics	Alcoswitch			
1-1437589-7	SSH02	2	0.298	0.338
1-1437589-8	SSH04	4	0.498	0.538
1-1437589-9	SSH06	6	0.699	0.738
2-1437589-0	SSH08	8	0.898	0.938
2-1437589-1	SSH10	10	1.098	1.138



CIRCUIT DIAGRAM

Catalog 1308390
Issued 9-04

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Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

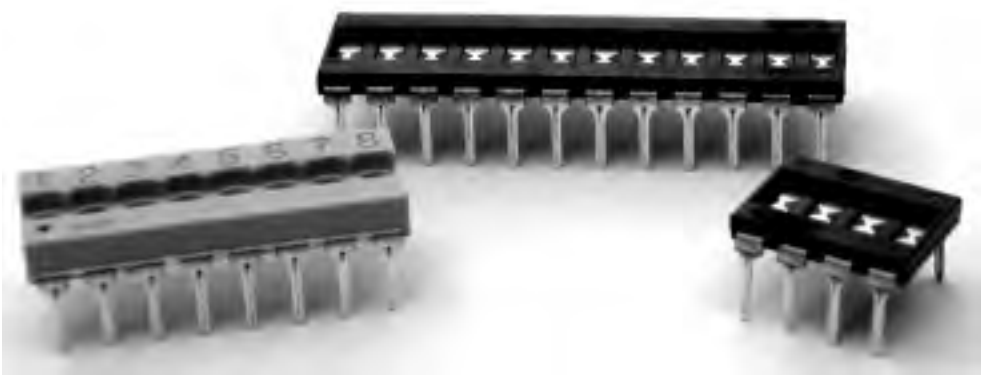
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Shunts

Alcoswitch DIP Shunts are a highly reliable, low cost means of manually programming various types of electrical/electronic equipment. The shunt consists of a series of conductive straps packaged in a DIP configuration. The straps can be retained intact for a closed circuit or broken with a hand tool to produce an open circuit.

DIP shunts are available in 4- through 12-position configurations. All shunts can be supplied either unprogrammed or preprogrammed.



Performance Characteristics

Current Rating:
Standard Pressure — 2 amperes for +20°C rise above ambient (one conductor per shunt)
Machine Insertable — 1 ampere for +20°C rise above ambient (one conductor per shunt)

Insulation Resistance:
1 x 10^{10} ohms min. at 100 VDC

Dielectric Withstanding Voltage:
500 VDC min.

Capacitance:
2 picofarads max. between adjacent straps
5 picofarads max. across cut straps

Temperature Rating:
-55°C to +105°C

Humidity:
Withstands an environment of +40°C and 95% RH for 96 hours

Terminal Strength (Bend Test):
Two 45° bend cycles per MIL-STD-202, Method 211, Condition B
Resistance to Soldering Heat: EIA-364-56A Condition C

Reconnection Option
Cut straps can be reconnected by soldering bridging. Solder bridging recommendations are:

- Use low temperature solder
- Use solder tip approximately 1/32 [0.79] in diameter
- Do not let solder tip come in contact with plastic material

Materials

Housing:
Glass-filled thermoplastic, 94V-0 rated

Metal Parts:
Copper alloy with electroplated tin finish (gold plated I/O legs are optional)

Technical Documents

Product Specifications:
108-7533 Through Hole
Instruction Sheets:
408-07768 Through Hole
Application Specifications:
114-1054 Through Hole

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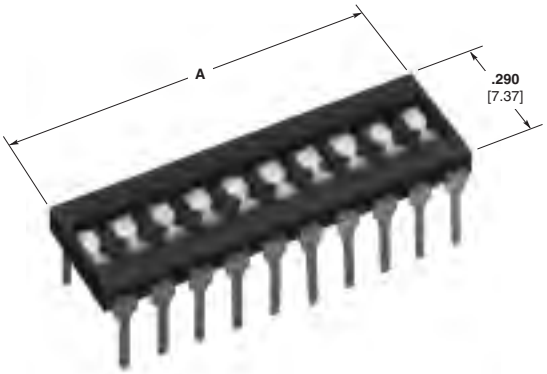
Dimensions are shown for reference purposes only. Specifications subject to change.

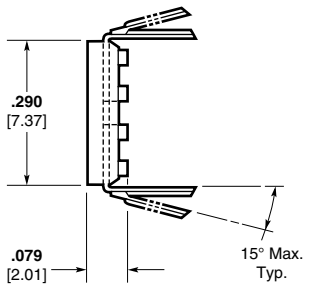
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Japan: 81-44-844-8013
UK: 44-141-810-8967

DIP Shunts

Standard Shunt
Standard Pressure

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface
Housing Color — Black
Programming Tool — See below

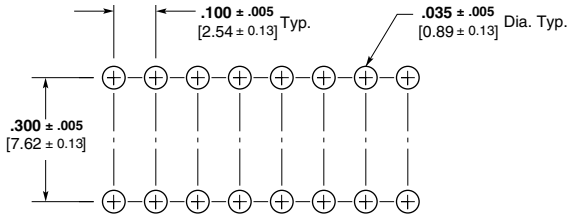




Programming
Hand Tool
Part No. 435862-1



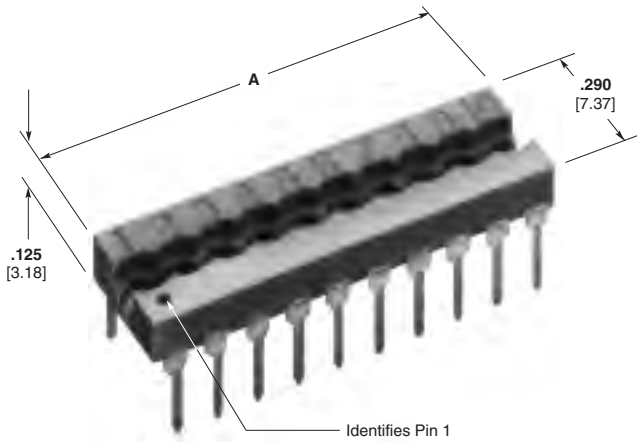
This tool provides a reliable means of programming DIP shunts. It is rugged, lightweight and dependable. No special skills are required to use this tool.

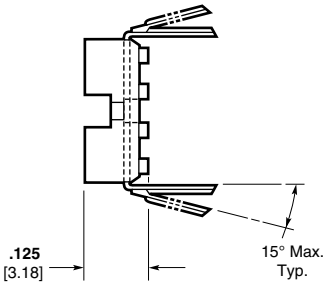


Recommended PC Board Hole Pattern

Machine Insertable Shunt
(Compatible with commercially available IC insertion equipment)

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface
Housing Color — Gray
Programming Tool — None required
(5 to 10 lbs. [22.2 to 44.4 N] required to manually program each shunt position)





No. of Positions	Dim. A		Standard Shunt Standard Pressure	Machine Insertable Shunt
	inch	mm		
4	.400	10.16	435704-4	—
6	.600	15.24	435704-6	—
7	.700	17.78	435704-7	—
8	.800	20.32	435704-8	436860-7
9	.900	22.86	435704-9	—
10	1.000	25.40	1-435704-0	—
12	1.200	30.48	1-435704-2	—

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UK: 44-141-810-8967

Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

FEATURES:

- 40% PCB area space savings over standard rotary dips
- 50% Lower in profile than standard rotary dips
- Hexadecimal or binary code, complement available
- Deflection temperature of 250ºC for SMT reflow soldering
- Gold contacts, tin/lead terminals
- Sealed "O" ring design

MATERIAL SPECIFICATIONS:

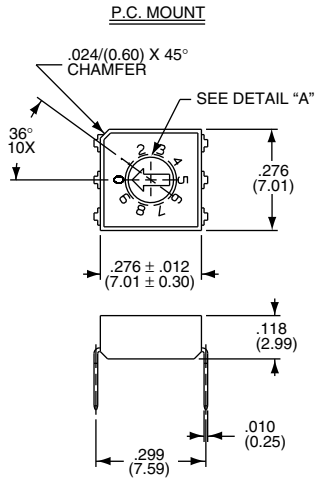
Fixed Contacts/Terminals.....Brass, gold plated / tin/lead
Moving Contacts.....BeCu, gold plated
Case Material .....PPS UL94V-0
Rotor .....Nylon UL94V-O
Cover Material .....PPS UL94V-0
O-Ring .....Fluoro Rubber

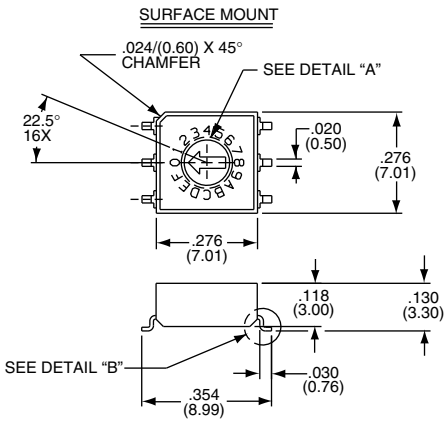
ENVIRONMENTAL SPECIFICATIONS:

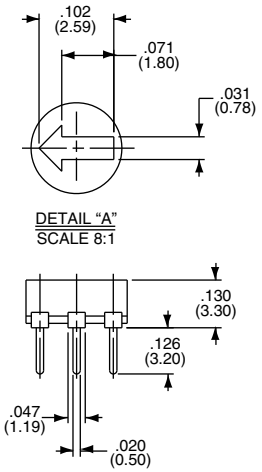
Operating Temperature.....-10°C to +85°C
Storage Temperature.....-45°C to +100°C
Solder Heat Resistance .....MIL-STD 202F, Method 210
IR Process Capability .....EIA-364-56 Level II (250°C peak)

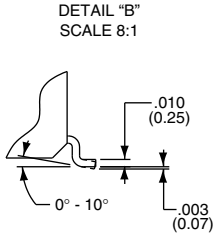
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA Max. @ 20 VDC
Initial Contact Resistance.....50m Max. @ 2 VDC 10mA
Insulation Resistance .....1,000 Megohms max.
Dielectric Strength .....300 VAC for 1 minute
Actuator Travel.....36° 10 Position, 22.5° 16 position
Operating Force .....200 Grams avg.
Life Expectancy .....20,000 Steps, mechanical










MRD10


MRD10S


MRD16C


MRD16S

Catalog 1308390
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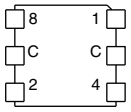
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

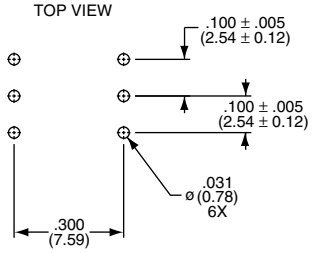
TERMINAL IDENTIFICATION

VIEWED FROM BOTTOM SWITCH



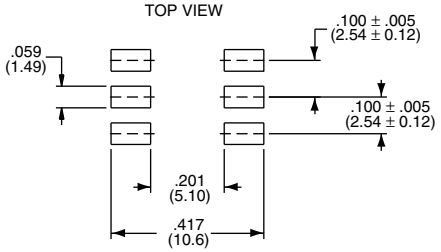
P.C. LAYOUT (THRU HOLE)

TOP VIEW



P.C. LAYOUT (SURFACE MOUNT)

TOP VIEW



TRUTH TABLES

10-Position, BCD (red actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X
2			X	X			X	X		
4					X	X	X	X		
8									X	X

16-Position, Hexadecimal (green actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X		X		X		X
2			X	X			X	X			X	X			X	X
4					X	X	X	X					X	X	X	X
8									X	X	X	X	X	X	X	X

10-Position, BCD Complement (orange actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1	X		X		X		X		X	
2	X	X			X	X			X	X
4	X	X	X	X					X	X
8	X	X	X	X	X	X	X	X		

16-Position Hexadecimal Complement (white actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
$\overline{C}$	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
$\overline{1}$	X		X		X		X		X		X		X		X	
$\overline{2}$	X	X			X	X			X	X			X	X		
$\overline{4}$	X	X	X	X					X	X	X	X				
$\overline{8}$	X	X	X	X	X	X	X	X								

HOW TO ORDER

MRD [ ] [ ] [ ]

Circuit Types
10 - BCD
10C = BCD complement
16 = Hexadecimal
16C = Hexadecimal complement

Terminations
Blank = PC
S = Outside L. surface mount

Packaging
TR = Tape & reel
(surface mount only)

Color Code	
Circuit Type	Actuator Color
10	Red
10C	Orange
16	Green
16C	White

Catalog 1308390
Issued 9-04

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary Dip Switches, Process Sealed, Through Hole and Surface Mount

MATERIAL SPECIFICATIONS:

Contacts .....Gold flashed copper alloy
Terminals .....Tin lead plated brass
Base, Rotor, Case .....PC, Glass filled PBT resin (blue case)
SMT, Polymide (white case)
Movable Contact.....Gold flashed copper alloy
Ball Support Plate.....Copper alloy
Detent Spring .....Stainless steel (spring)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-22ºF to +185ºF (-30°C to +85°C)
Storage Temperature.....-49ºF to 212ºF (-45°C to +100°C)
Vibration Resistance.....Subjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
Shock Resistance .....Will withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
Salt Spray Test .....Withstands an atmosphere of 5% salt water at temperature of 50°C
Hydrogen Sulfide Test .....Withstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
Atmospheric Test .....Withstands an atmosphere of 30-50 PPM sulfite gas at a temperature of 40°C for 240 hours
Solder Heat Resistance.....Withstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210
Bubble Test.....Withstands submersion in 60°C Flouriert for 1 min. without leakage

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC max.
Initial Contact Resistance.....50 Milliohms max. @ 2 VDC
Insulation Resistance .....1,000 Megohms min. @100 VDC
Dielectric Strength .....300 VAC RMS @ sea level
Operating Force .....6 Oz.-in. nom.
SMT Operating Force.....3 Oz.-in. nom.
Life Expectancy .....20,000 Steps



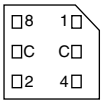
DRD10E



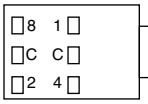
DRD16CE

TRUTH TABLES

Terminal Identification
(view from bottom of the switch)



VIEW FROM BOTTOM OF THE SWITCH



ACTUATOR LOCATION

NOTE: COMMON TERMINALS ARE CONNECTED INTERNALLY.

10-Position, BCD (red actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X
2			X	X			X	X		
4					X	X	X	X		
8									X	X

16-Position, Hexadecimal (black actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X		X		X		X
2			X	X			X	X			X	X			X	X
4					X	X	X	X					X	X	X	X
8									X	X	X	X	X	X	X	X

10-Position, BCD Complement (orange actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
$\overline{C}$	X	X	X	X	X	X	X	X	X	X
$\overline{1}$	X		X		X		X		X	
$\overline{2}$	X	X			X	X			X	X
$\overline{4}$	X	X	X	X					X	X
$\overline{8}$	X	X	X	X	X	X	X	X		

16-Position Hexadecimal Complement (white actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
$\overline{C}$	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
$\overline{1}$	X		X		X		X		X		X		X		X	
$\overline{2}$	X	X			X	X			X	X			X	X		
$\overline{4}$	X	X	X	X					X	X	X	X				
$\overline{8}$	X	X	X	X	X	X	X	X								

Catalog 1308390
Issued 9-04

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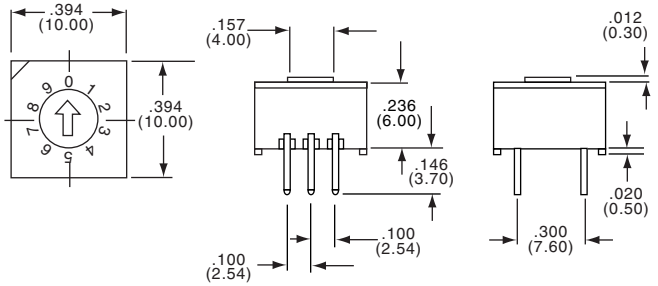
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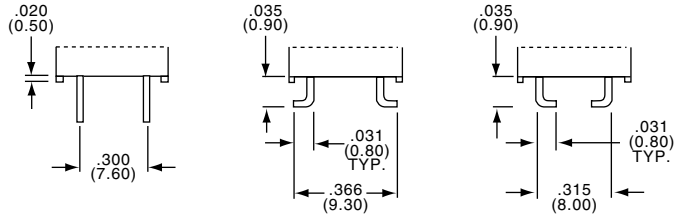
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Rotary DIP Switches, Process Sealed, Through Hole and Surface Mount

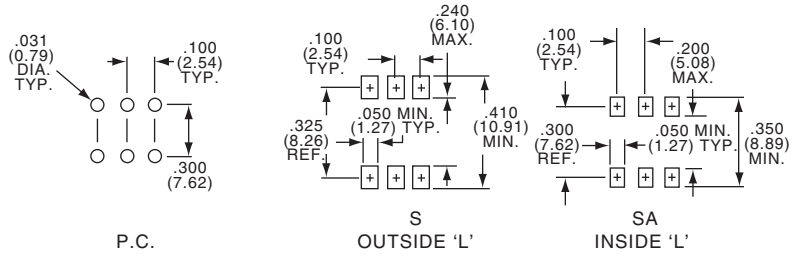
"D" FLUSH ACTUATOR



TERMINATIONS



LAYOUTS



HOW TO ORDER

DRD ☐ ☐ **E** ☐

10 = BCD
10C = BCD Complement
16 = Hexadecimal
16C = Hexadecimal Complement

Blank = PC
SA = SMT (Inside L)
S = SMT (Outside L)

Blank = Tubes
TR = Tape & Reel (for surface mount only)

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UK: 44-141-810-8967

Rotary DIP Switches, Unsealed, Through Hole, Straight and Right-Angle

FEATURES:

- High pressure contacts (140K PSI) provide 20,000 Steps.
- Unique design utilizes high pressure pin-point sliding contacts to penetrate contaminants on contact surface.
- Terminals insert molded into base.
- Screwdriver, knob and shaft (plastic and steel) type actuators available in both upright and right angle versions.
- 10 And 16 position versions with both real and complement codes.

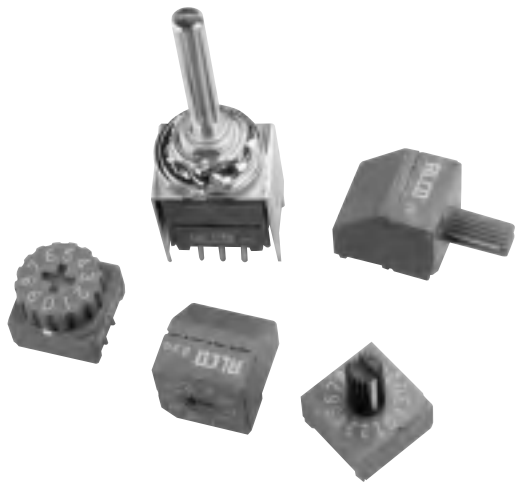
Note: Common terminals connected internally.

MATERIAL SPECIFICATIONS:

Contacts .....Gold flashed copper alloy
Terminals .....Tin Lead Plated
Base, Rotor, Case .....Polyester

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC
Initial Contact Resistance.....50 Milliohms max. @ 2 VDC
Insulation Resistance .....1,000 Megohms min. @ 100 VDC
Dielectric Strength .....300 VAC RMS @ sea level



ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-22ºF to +185ºF (-30°C to +85°C)
Storage Temperature.....-49ºF to +212ºF (-45°C to + 100°C)
Vibration Resistance.....Subjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
Shock Resistance .....Will withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
Salt Spray Test .....Withstands an atmosphere of 5% salt water at temperature of 50°C
Hydrogen Sulfide Test .....Withstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
Atmosphere Test.....Withstands an atmosphere of 30-50 PPM sulfide gas at a temperature of 40°C for 240 hours
Solder Heat Resistance.....Withstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210

Example: DRW 10RA = Rotary Dip with
Wheel actuator
BDC -10 position
Right angle PC terminations

HOW TO ORDER

D	R				

Series
Rotary Dips (blue case)

Actuator Style
*D = Flush
M = Mini plastic shaft
W = Wheel
S = Metal shaft

Circuit Type
10 = BCD
10C = BCD complement
16 = Hexadecimal
16C = Hexadecimal complement

Terminations
Blank = PC
RA = Right angle for DRM, DRW, DRS only
RAE = Right angle, Auto Assembly Compatible for DRD type only

*DRD Available in RAE version only. For PC or SMT versions, see Pg. A24 DRD "E" Process Sealed Product.

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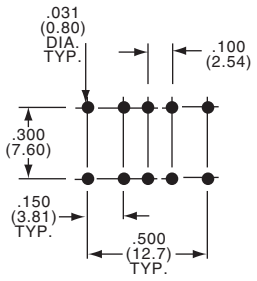
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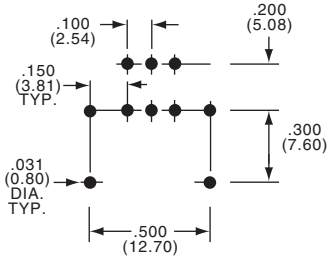
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary DIP Switches, Unsealed, Through Hole, Straight and Right-Angle

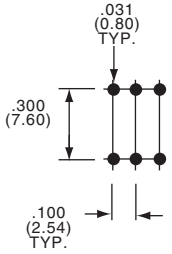
FOOTPRINTS



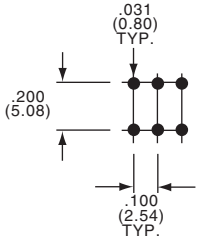
S STYLE VERTICAL
(METAL SHAFT)



S STYLE RA
(METAL SHAFT)



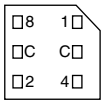
PC

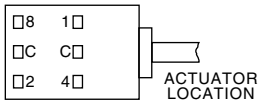


PC
RIGHT ANGLE

TRUTH TABLES

Terminal Identification
(view from bottom of the switch)





10-Position, BCD (red actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X
2			X	X			X	X		
4					X	X	X	X		
8									X	X

10-Position, BCD Complement (orange actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
$\overline{C}$	X	X	X	X	X	X	X	X	X	X
$\overline{1}$	X		X		X		X		X	
$\overline{2}$	X	X			X	X			X	X
$\overline{4}$	X	X	X	X					X	X
$\overline{8}$	X	X	X	X	X	X	X	X		

16-Position, Hexadecimal (black actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X		X		X		X
2			X	X			X	X			X	X			X	X
4					X	X	X	X					X	X	X	X
8									X	X	X	X	X	X	X	X

16-Position Hexadecimal Complement (white actuator)

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
$\overline{C}$	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
$\overline{1}$	X		X		X		X		X		X		X		X	
$\overline{2}$	X	X			X	X			X	X			X	X		
$\overline{4}$	X	X	X	X					X	X	X	X				
$\overline{8}$	X	X	X	X	X	X	X	X								

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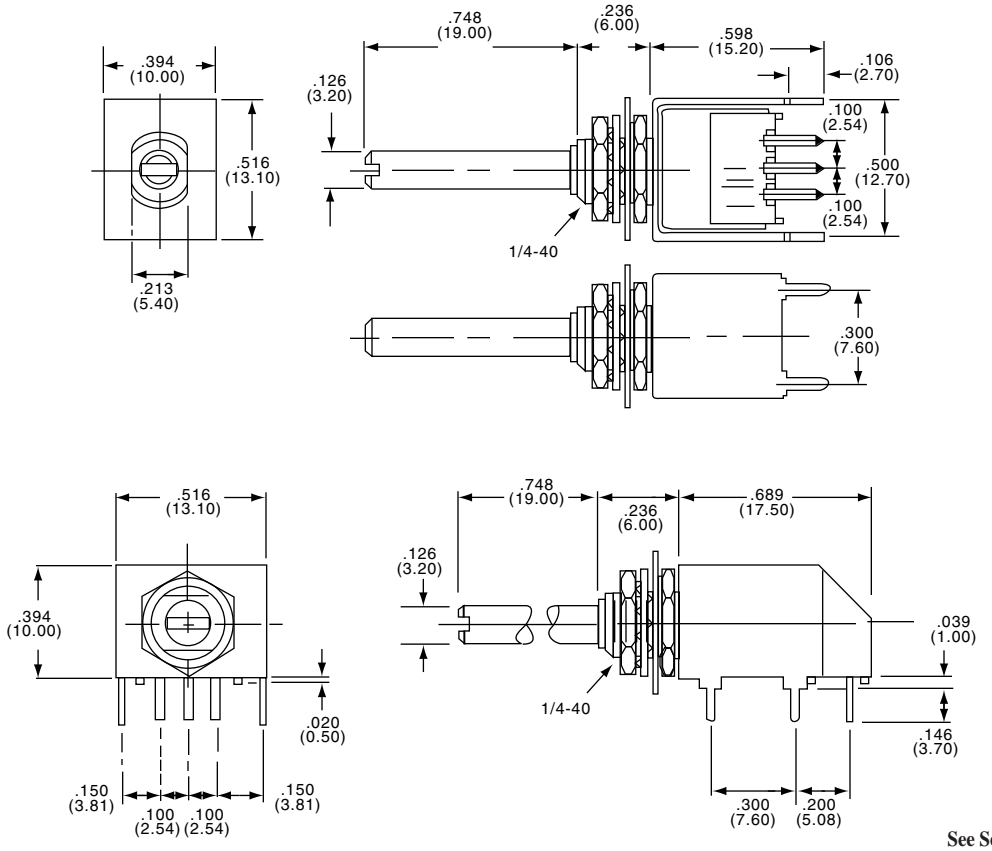
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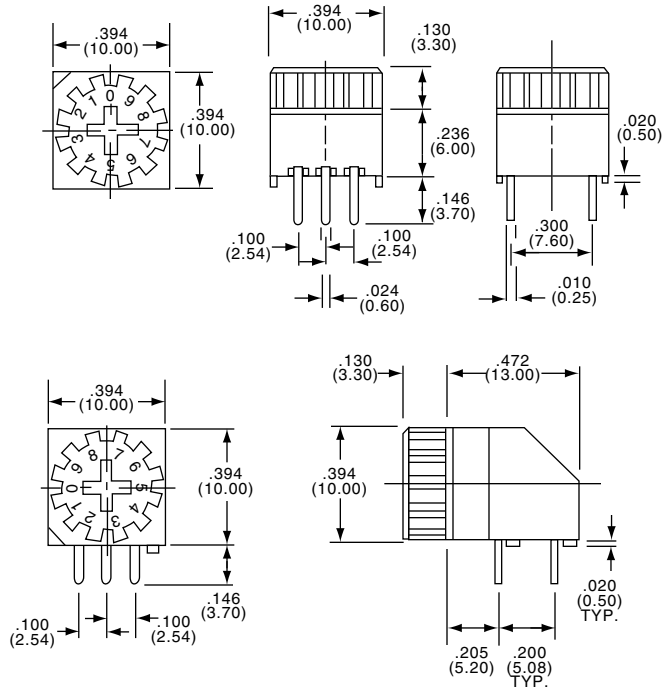
Rotary DIP Switches, Unsealed, Through Hole, Metal Shaft or Wheel Actuator

"S" METAL SHAFT ACTUATOR



See Section K for knob selection

"W" WHEEL ACTUATOR



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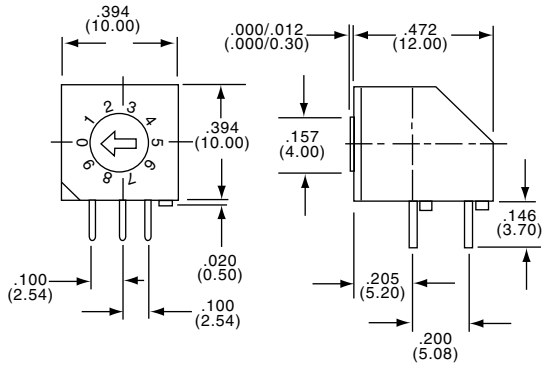
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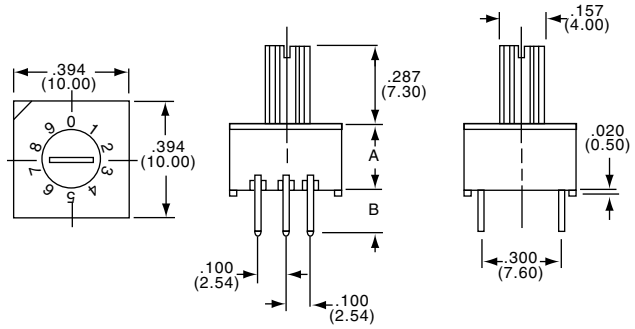
Rotary DIP Switches, Unsealed, Through-Hole, Flush and Mini Shaft Actuator

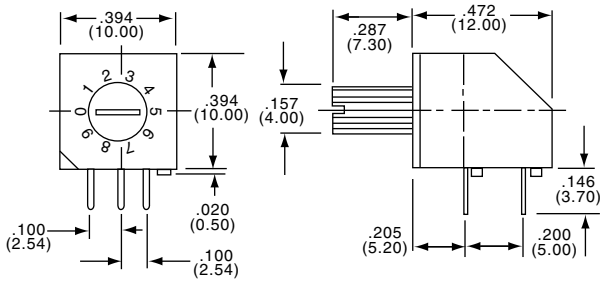
"D" FLUSH ACTUATOR



DIM.	DR	RC, *RA, RR
A	.236 (6.00)	.256 (6.50)
B	.146 (3.70)	.126 (3.20)

"M" MINI-SHAFT ACTUATOR





DIM.	DR	RR
A	.236 (6.00)	.256 (6.50)
B	.146 (3.70)	.126 (3.20)

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Slide Switches



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SE Series - Page B9



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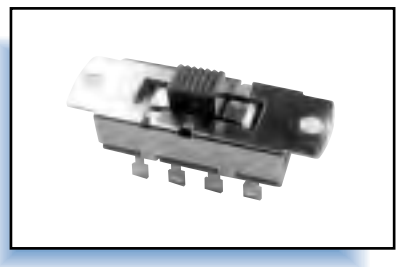
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Slide Switch Selection Guide

PRODUCT LINE FEATURES

- One of the broadest lines in the industry.
- One to six pole configurations.
- Current ratings from 0.4V @ 20VDC to 3A @ 115VAC.
- Miniature and sub-miniature case sizes.
- Gold or silver plating available in most series.
- Wave solderable, washable, and surface mount versions.
- Rocker (butt), shoe and bifurcated contact mechanisms.
- Vertical and RA actuator styles.

CIRCUITRY	SERIES	TERMINATION	CONTACT RATING/PLATING	ACTUATION	LIFE EXPECTANCY
SPST	TSS	P.C.	.4VA/GOLD	STANDARD/FLUSH	80K CYCLES
SPDT	MHS	P.C./RIGHT ANGLE	.4VA/GOLD:300mA/SILVER	STANDARD/BATON	15K CYCLES
	MLL	SURFACE MOUNT	0.3A @ 4 VDC/SILVER	RIGHT ANGLE	10K CYCLES
	MMS	P.C.	100MA/SILVER	STANDARD	10K CYCLES
	MSS	P.C./RIGHT ANGLE	.4VA/GOLD:300MA/SILVER	STANDARD	15K CYCLES
	MSSAHH1	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	30K CYCLES
	MSSAHH4	P.C./RIGHT ANGLE	3A/SILVER	STANDARD	30K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125VAC/SILVER	STANDARD	10K CYCLES
	SE, S	P.C./RIGHT ANGLE/SMT	.4VA/GOLD	STANDARD	6K CYCLES
	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	SLS/A	P.C.	500mA/SILVER	STANDARD	10K CYCLES
	SSA	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
	SSB	P.C./RIGHT ANGLE	100MA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
	SSJ	P.C./RIGHT ANGLE	100mA/SILVER	STANDARD	10K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD/FLUSH	60-80K CYCLES
SP3T	MHS	P.C./RIGHT ANGLE	300MA/SILVER:.4VA/GOLD	STANDARD/BATON	15K CYCLES
	MLL	SURFACE MOUNT	0.3A @ 4 VDC/SILVER	RIGHT ANGLE	10K CYCLES
	MSS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MSSA	P.C./RIGHT ANGLE	300MA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125VAC/SILVER	STANDARD	10K CYCLES
	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250MA/SILVER	STANDARD	6K CYCLES
	SSJ	P.C.	100mA/SILVER	STANDARD	10K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP4T	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP5T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP6T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP7T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
SP8T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
SP10T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
DPST	TSS	P.C.	.4VA/GOLD	STANDARD/FLUSH	80K CYCLES
DPDT	ASE/F	P.C./RIGHT ANGLE/SMT	.4VA/GOLD:300mA SILVER	STANDARD/FLUSH	10K CYCLES
	CSS	P.C.	300mA/SILVER	BATON	15K CYCLES
	CST	P.C.	300mA/SILVER	BATON	15K CYCLES
	MHS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD/BATON	15K CYCLES
	MMS	P.C./RIGHT ANGLE	100mA/SILVER	STANDARD	10K CYCLES
	MSS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MSSA21	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	30K CYCLES

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Slide Switch Selection Guide

CIRCUITRY	SERIES	TERMINATION	CONTACT RATING/PLATING	ACTUATION	LIFE EXPECTANCY
DPDT	1571491	PANEL	6A/SILVER	STANDARD	5K CYCLES
	MSSA2H4	P.C./RIGHT ANGLE	3A/SILVER	STANDARD/FLUSH	30K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125 VAC/SILVER	STANDARD	10K CYCLES
	SE, S	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	10K CYCLES
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS/A	P.C.	500mA/SILVER	STANDARD	10K CYCLES
	SSA	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
	SSB	P.C./RIGHT ANGLE	100mA/SILVER:/4VA/GOLD	STANDARD	10K CYCLES
	STS	P.C./RIGHT ANGLE	300 mA/SILVER	STANDARD	10K CYCLE
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD/FLUSH	60-80K CYCLES
DP3T	1571490	PANEL	13A/SILVER	STANDARD	5K CYCLES
	CST	P.C.	300mA/SILVER	BATON	10K CYCLES
	MHS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD/BATON	15KCYCLES
	MMS	P.C./RIGHT ANGLE	100mA/SILVER	STANDARD	10K CYCLES
	MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125 VAC	STANDARD	10K CYCLES
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
DP4T	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
DP5T	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
DP6T	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
3P3T	MSSA	P.C./RIGHT ANGLE	300mA/SILVER: .4VA/GOLD	STANDARD	15K CYCLES
	SSB	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
3P4T	MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
4PDT	ASE/F	P.C./RIGHT ANGLE/SMT	300mA/SILVER:.4VA/GOLD	STANDARD/FLUSH	10K CYCLES
	CST	P.C.	300mA/SILVER	BATON	10K CYCLES
	MMS	P.C./RIGHT ANGLE	100mA/SILVER	STANDARD	10K CYCLES
	MSS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	SSB	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	80K CYCLES
4P3T	ASE/F	P.C./RIGHT ANGLE/SMT	300mA/SILVER	STANDARD/FLUSH	10K CYCLES
	CST	P.C.	300mA/SILVER	BATON	10K CYCLES
	MHS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MMS	P.C./RIGHT ANGLE	100mA/SILVER	STANDARD	10K CYCLES
	MSS/MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15L CYCLES
4P4T	MSSA	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
6PDT	ASE/F	P.C./RIGHT ANGLE/SMT	300mA/SILVER:.4VA/GOLD	STANDARD/FLUSH	10K CYCLES
	CST	P.C.	300mA/SILVER:.4VA/GOLD	BATON	10K CYCLES
	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
6P3T	MSS	P.C./RIGHT ANGLE	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES

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Slide Switches, Auto-insertable, Through Hole and Surface Mount

FEATURES:

- Unique design allows ASE/F to withstand aqueous or solvent cleaning processes.
- High temperature anti-static plastic construction will withstand most surface mount, vapor phase reflow or wave soldering conditions.
- Three standard types:
  ASF – DIP package with flush actuator allows auto insertion on standard IC equipment. Standard tape seal and closed case construction provide process seal.
  ASFO–Open ended flush actuator without tape seal.
  ASE–extended actuator open-ended case allows washout after process cleaning.
- 2, 4 and 6 pole versions available with top or side actuator.
- Bifurcated double wipe contacts provide dependable, telecom grade switching.
- Industry standard .100 x .300 pin spacing

MATERIAL SPECIFICATIONS:

Contacts .....Gold over nickel or Silver over nickel flash
Case Material .....PET
Actuator Material .....Nylon
Terminal.....Copper alloy, terminals tin lead plate (90/10) over nickel

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +176°F (-40°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40˚C to +80˚C)
Solder Heat Resistance.....See page M3-M4
Movable Contact .....Copper alloy
Terminal Seal.....Insert molded

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA @ 20 VDC or peak AC shorting type
Silver: 300mA @ 115 VAC 28 VDC
Initial Contact Resistance.....40 Milliohms max.
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Contact Timing.....Shorting
Life Expectancy .....10,000 Cycles
Actuation Force .....850g±150grams
Travel ..... .100 ±.010 [2.54±.25]

PART NUMBERING

Series	Actuator Style	Poles	Throws	Options		SMT
AS	E	2	2	R	G	L
	F	4	*3	**	Blank = Silver	S
	FO	6				

ASF: Tape seal, closed (sealed) case, flush top actuator.

ASE: Open ended case, extended top or side actuator.

ASFO: Open ended case, flush top or side actuator.

Standard actuator color is white.
E= Extended actuator
F= Flush actuator
FO= Open ended without tape seal
G= Gold contacts
R= Side actuator
*3= Throw available in 4 pole only
L= SMT terminal configuration
S= SMT terminal reverse L configuration (Refer to page B10 for pad layout)


ASE22R


ASE62G


ASF22


ASF22R

**Flush side actuator "R" versions are supplied with open ended case and without tape seal.

Note: For SPDT requirements, order DPDT version and use either set of contacts for SPDT switching.

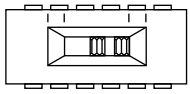
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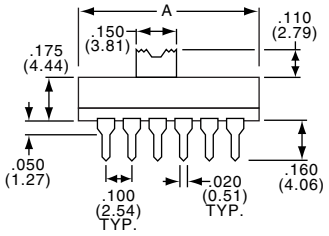
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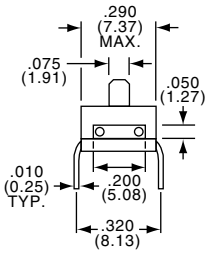
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Slide Switches, Extended Actuator, Through Hole and Surface Mount



EXTENDED TOP ACTUATOR



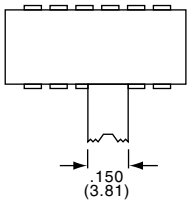


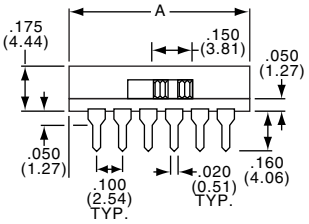
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

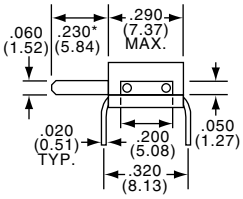
Upright, Through Hole, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
1437581-2	ASE22	DPDT	Silver	.400/10.2
1437581-4	ASE22G	DPDT	Gold	.400/10.2
1-1437581-4	ASE42	4PDT	Silver	.700/17.8
1-1437581-6	ASE42G	4PDT	Gold	.700/17.8
2-1437581-5	ASE43	4P3T	Silver	1.10/27.9
2-1437581-6	ASE43G	4P3T	Gold	1.10/27.9
3-1437581-1	ASE62	6PDT	Silver	1.00/25.4
3-1437581-3	ASE62G	6PDT	Gold	1.00/25.4

EXTENDED SIDE ACTUATOR





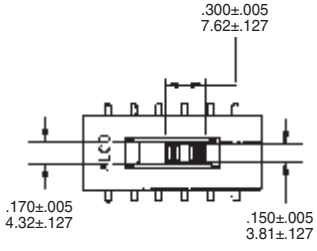


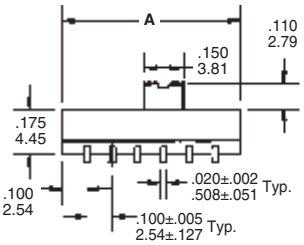
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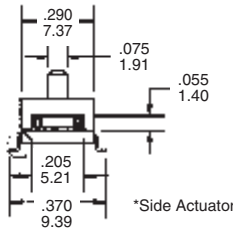
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Through Hole, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
1437581-8	ASE22R	DPDT	Silver	.400/10.2
1437581-9	ASE22RG	DPDT	Gold	.400/10.2
1-1437581-9	ASE42R	4PDT	Silver	.700/17.8
2-1437581-0	ASE42RG	4PDT	Gold	.700/17.8
2-1437581-9	ASE43R	4P3T	Silver	1.10/27.9
3-1437581-0	ASE43RG	4P3T	Gold	1.10/27.9
3-1437581-6	ASE62R	6PDT	Silver	1.00/25.4
3-1437581-7	ASE62RG	6PDT	Gold	1.00/25.4







L Type Surface Mount

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "L" Type, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
1437581-5	ASE22GL	DPDT	Gold	.400/10.2
1437581-7	ASE22L	DPDT	Silver	.400/10.2
1-1437581-7	ASE42GL	4PDT	Gold	.700/17.8
1-1437581-8	ASE42L	4PDT	Silver	.700/17.8
2-1437581-7	ASE43GL	4P3T	Gold	1.10/27.9
2-1437581-8	ASE43L	4P3T	Silver	1.10/27.9
3-1437581-4	ASE62GL	6PDT	Gold	1.00/25.4
3-1437581-5	ASE62L	6PDT	Silver	1.00/25.4

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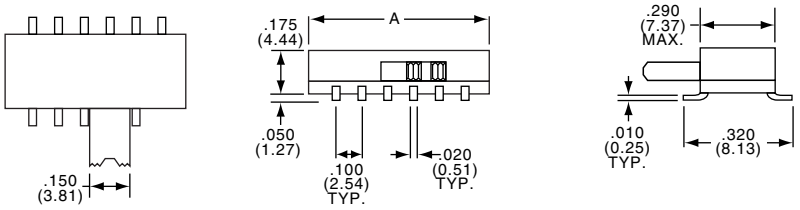
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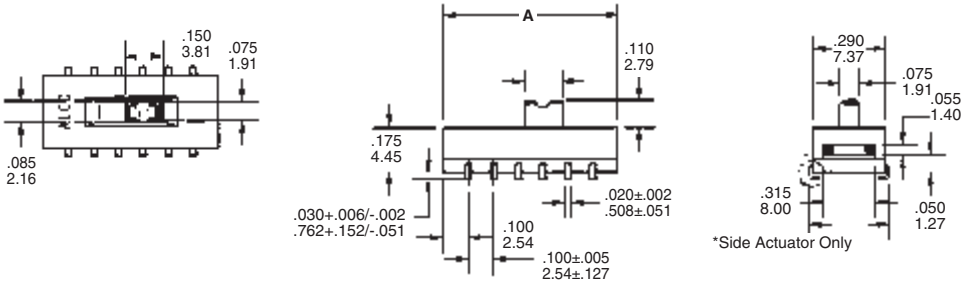
Slide Switches, Extended Actuator, Through Hole and Surface Mount



NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "L" Type, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
—	ASE22RGL	DPDT	Gold	.400/10.2
1-1437581-1	ASE22RL	DPDT	Silver	.400/10.2
2-1437581-1	ASE42RGL	4PDT	Gold	.700/17.8
2-1437581-2	ASE42RL	4PDT	Silver	.700/17.8
—	ASE43RGL	4P3T	Gold	1.10/27.9
—	ASE43RL	4P3T	Silver	1.10/27.9
3-1437581-8	ASE62RGL	6PDT	Gold	1.00/25.4
3-1437581-9	ASE62RL	6PDT	Silver	1.00/25.4

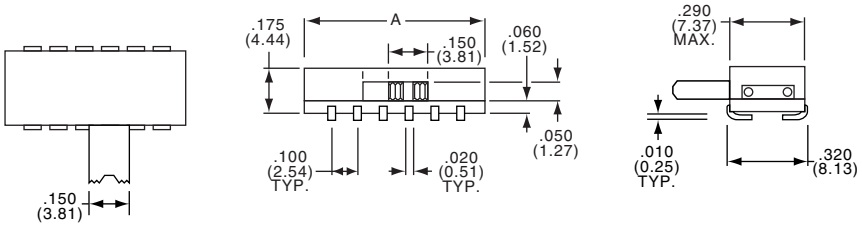


S Type Surface Mount

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "S" Type, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
1437581-6	ASE22GS	DPDT	Gold	.400/10.2
1-1437581-3	ASE22S	DPDT	Silver	.400/10.2
—	ASE42GS	4PDT	Gold	.700/17.8
2-1437581-4	ASE42S	4PDT	Silver	.700/17.8
—	ASE43GS	4P3T	Gold	1.10/27.9
—	ASE43S	4P3T	Silver	1.10/27.9
—	ASE62GS	6PDT	Gold	1.00/25.4
—	ASE62S	6PDT	Silver	1.00/25.4



NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "S" Type, Extended Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
1-1437581-0	ASE22RGS	DPDT	Gold	.400/10.2
1-1437581-2	ASE22RS	DPDT	Silver	.400/10.2
—	ASE42RGS	4PDT	Gold	.700/17.8
2-1437581-3	ASE42RS	4PDT	Silver	.700/17.8
—	ASE43RGS	4P3T	Gold	1.10/27.9
—	ASE43RS	4P3T	Silver	1.10/27.9
—	ASE62RGS	6PDT	Gold	1.00/25.4
—	ASE62RS	6PDT	Silver	1.00/25.4

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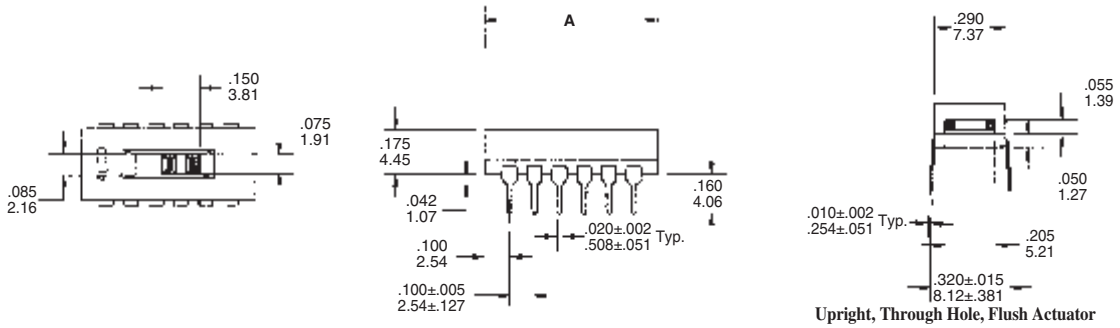
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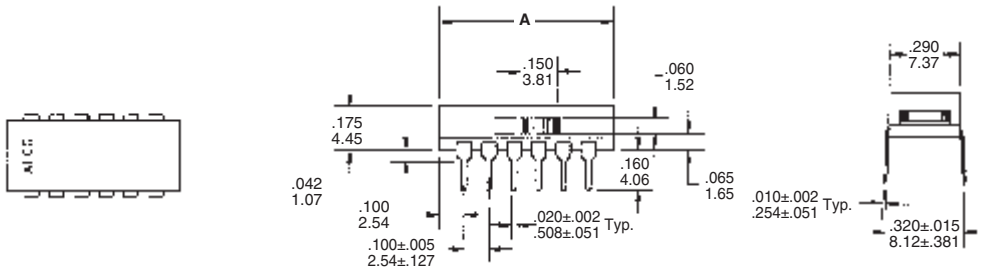
Slide Switches, Flush Actuator, Through Hole and Surface Mount



Upright, Through Hole, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
5-1437581-6	ASF22	DPDT	Silver	.400/10.2
5-1437581-8	ASF22G	DPDT	Gold	.400/10.2
6-1437581-8	ASF42	4PDT	Silver	.700/17.8
7-1437581-0	ASF42G	4PDT	Gold	.700/17.8
7-1437581-8	ASF43	4P3T	Silver	1.10/27.9
7-1437581-9	ASF43G	4P3T	Gold	1.10/27.9
8-1437581-4	ASF62	6PDT	Silver	1.00/25.4
8-1437581-6	ASF62G	6PDT	Gold	1.00/25.4

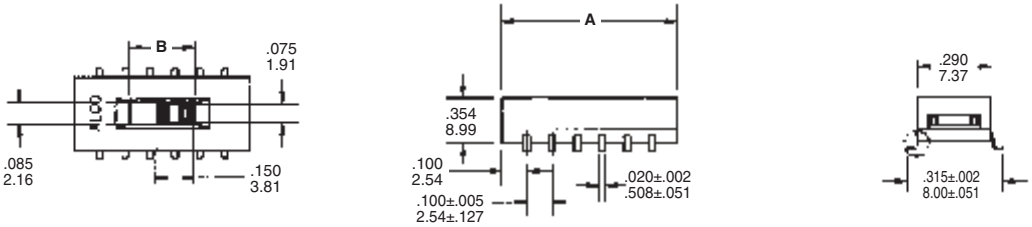
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.



Right Angle, Through Hole, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
6-1437581-2	ASF22R	DPDT	Silver	.400/10.2
6-1437581-3	ASF22RG	DPDT	Gold	.400/10.2
7-1437581-3	ASF42R	4PDT	Silver	.700/17.8
7-1437581-4	ASF42RG	4PDT	Gold	.700/17.8
	ASF43R	4P3T	Silver	1.10/27.9
8-1437581-2	ASF43RG	4P3T	Gold	1.10/27.9
8-1437581-9	ASF62R	6PDT	Silver	1.00/25.4
9-1437581-1	ASF62RG	6PDT	Gold	1.00/25.4

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.



L Type Surface Mount

Upright, Surface Mount "L" Type, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
5-1437581-9	ASF22GL	DPDT	Gold	.400/10.2
6-1437581-1	ASF22L	DPDT	Silver	.400/10.2
7-1437581-1	ASF42GL	4PDT	Gold	.700/17.8
7-1437581-2	ASF42L	4PDT	Silver	.700/17.8
8-1437581-0	ASF43GL	4P3T	Gold	1.10/27.9
8-1437581-1	ASF43L	4P3T	Silver	1.10/27.9
8-1437581-7	ASF62GL	6PDT	Gold	1.00/25.4
8-1437581-8	ASF62L	6PDT	Silver	1.00/25.4

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

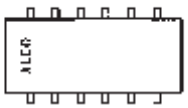
Catalog 1308390
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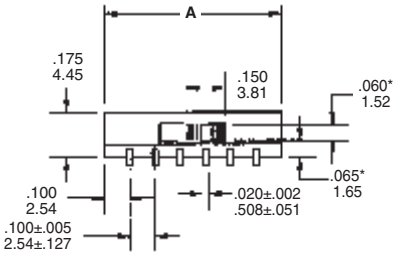
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UK: 44-141-810-8967

Slide Switches, Flush Actuator, Through Hole and Surface Mount





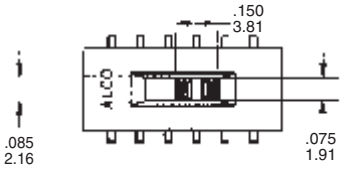


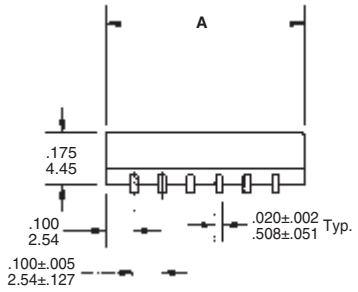
L Type Surface Mount

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "L" Type, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
6-1437581-4	ASF22RGL	DPDT	Gold	.400/10.2
—	ASF22RL	DPDT	Silver	.400/10.2
7-1437581-5	ASF42RGL	4PDT	Gold	.700/17.8
7-1437581-6	ASF42RL	4PDT	Silver	.700/17.8
—	ASF43RGL	4P3T	Gold	1.10/27.9
—	ASF43RL	4P3T	Silver	1.10/27.9
9-1437581-2	ASF62RGL	6PDT	Gold	1.00/25.4
—	ASF62RL	6PDT	Silver	1.00/25.4



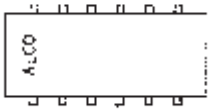


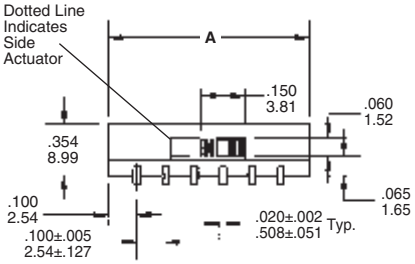


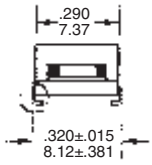
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "S" Type, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
6-1437581-0	ASF22GS	DPDT	Gold	.400/10.2
6-1437581-7	ASF22S	DPDT	Silver	.400/10.2
—	ASF42GS	4PDT	Gold	.700/17.8
7-1437581-7	ASF42S	4PDT	Silver	.700/17.8
—	ASF43GS	4P3T	Gold	1.10/27.9
8-1437581-3	ASF43S	4P3T	Silver	1.10/27.9
—	ASF62GS	6PDT	Gold	1.00/25.4
9-1437581-4	ASF62S	6PDT	Silver	1.00/25.4







NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "S" Type, Flush Actuator

Tyco Electronics	Alcoswitch	Type	Contact	Dim A
6-1437581-5	ASF22RGS	DPDT	Gold	.400/10.2
6-1437581-6	ASF22RS	DPDT	Silver	.400/10.2
—	ASF42RGS	4PDT	Gold	.700/17.8
—	ASF42RS	4PDT	Silver	.700/17.8
—	ASF43RGS	4P3T	Gold	1.10/27.9
—	ASF43RS	4P3T	Silver	1.10/27.9
9-1437581-3	ASF62RGS	6PDT	Gold	1.00/25.4
—	ASF62RS	6PDT	Silver	1.00/25.4

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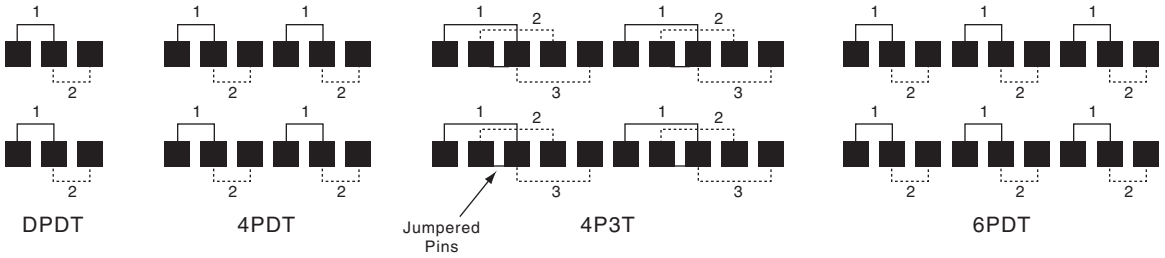
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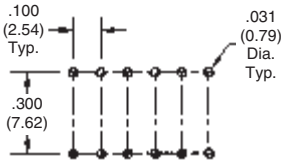
Slide Switches, Auto-insertable, Through Hole and Surface Mount

CIRCUIT DIAGRAMS

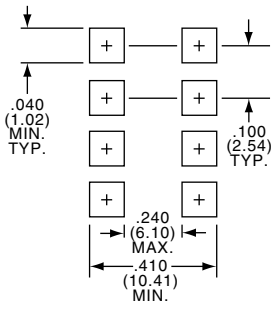


NOTE: For SPDT requirements order DPDT version and use either set of contacts for SPDT switching.

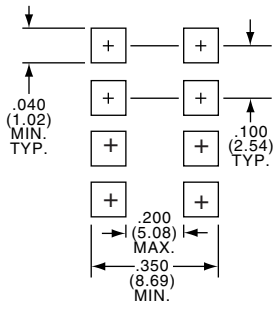
PC LAYOUT



PAD LAYOUT



"L" PAD



REVERSE "S" PAD

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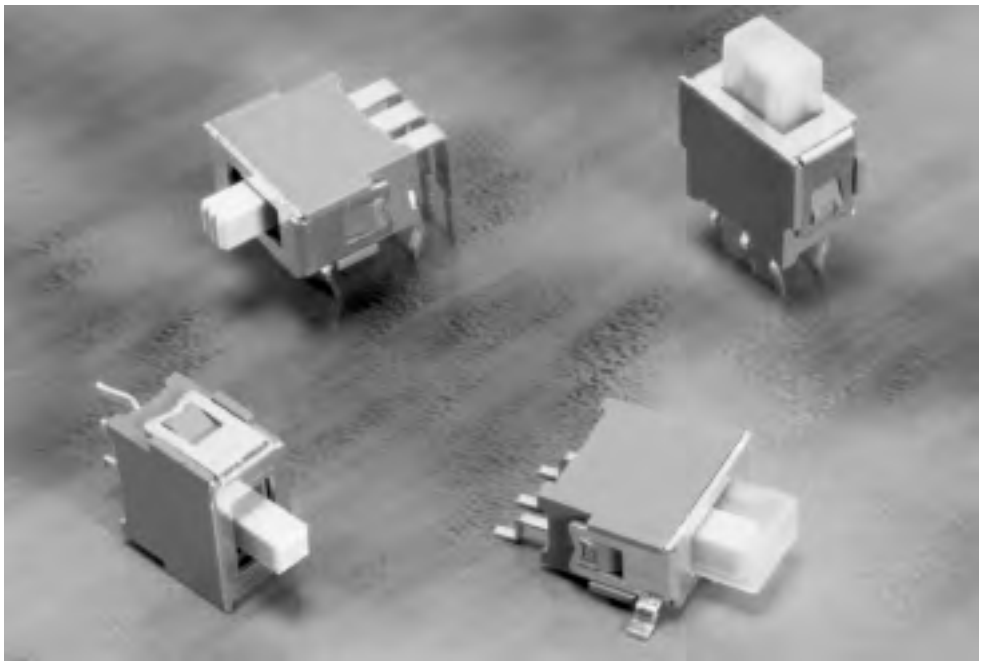
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UK: 44-141-810-8967

S Series Unsealed, SE Series Sealed, Through-Hole and Surface Mount

Product Facts

- Sealed or Unsealed
- Straight or Right-Angle
- Through-hole or Surface-mount
- Bulk or Tape-and-Reel packaged
- Compact size
- Double-pole function in a single-pole body
- PC retention feature
- High reliability contact system
- Epoxy sealed base
- Robust actuator for easy actuation
- Non-shorting (break-before-make)



Switch, Slide, Surface Mount - SE1 SMT (Shown w/Boot)

Electrical Characteristics

Contact rating: .4 VA @ 20 VDC Max.
50mA 48V AC/DC
Min. 1 micro A 20 mV AC/DC

Initial Contact Resistance: less than 50 milliohms

Final Contact Resistance: 100 milliohms max.

Insulation Resistance: 500 Megaohms @ 250 VDC

Dielectric Strength: 500 VAC between terminals and ground

Mechanical

Mechanical Life: Up to 10,000 cycles @ max. load

Actuation Force: 70 to 500 grams

Materials and Finish

Terminals: Tin-lead over nickel-plated phosphor bronze

Contacts: Gold over nickel plated phosphor bronze

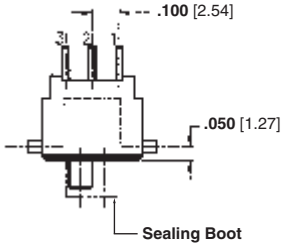
Frame: Tin over nickel plated brass

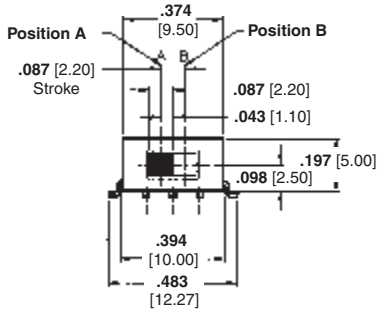
Case, Actuator, Plunger, Terminal Board: UL 94V-0 glass-filled Polyamide

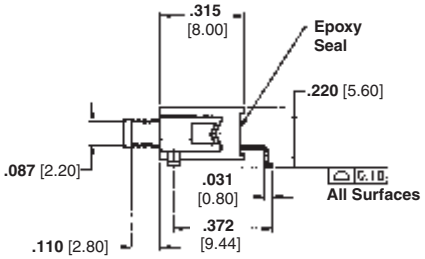
Actuator Boot: Silicon Rubber

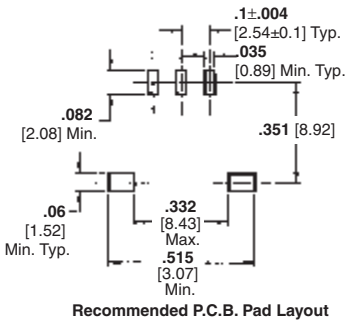
Standards & Specs

Sealed switch per IP 67









Recommended P.C.B. Pad Layout

SMT-Sealed Part Numbers

Tyco Electronics	Alcoswitch	Function
1571004-1	SE1GSMT	On-Off
1571004-2	SE1EGSMT	On-Off-On
1571004-3	SE1DGSMT	On-None-On

Tape & Reel Package

Tyco Electronics	Alcoswitch	Function
1571004-4	SE1GSMTTR	On-Off
1571004-5	SE1EGSMTTR	On-Off-On
1571004-6	SE1DGSMTTR	On-None-On

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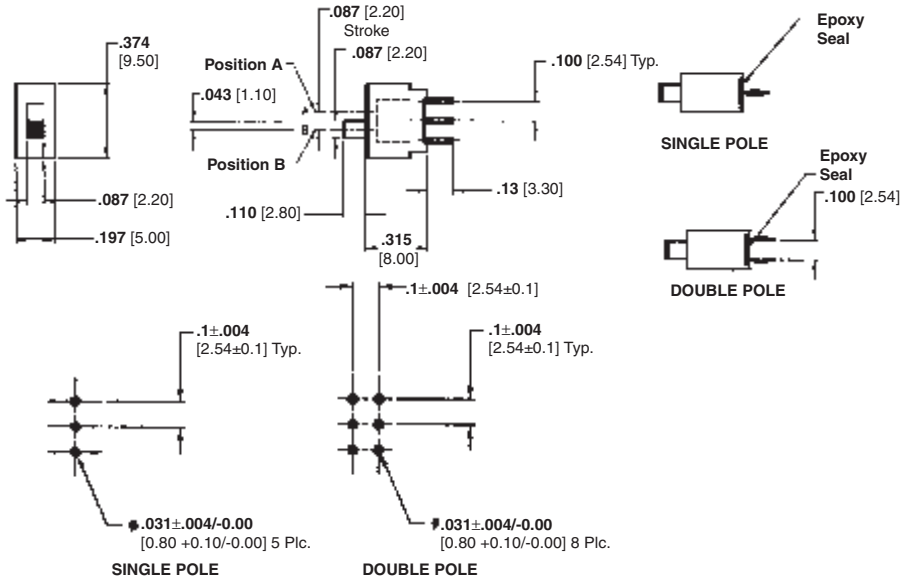
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Switch, Slide, PC Tail, S/SE GPC (Shown w/o Boot)



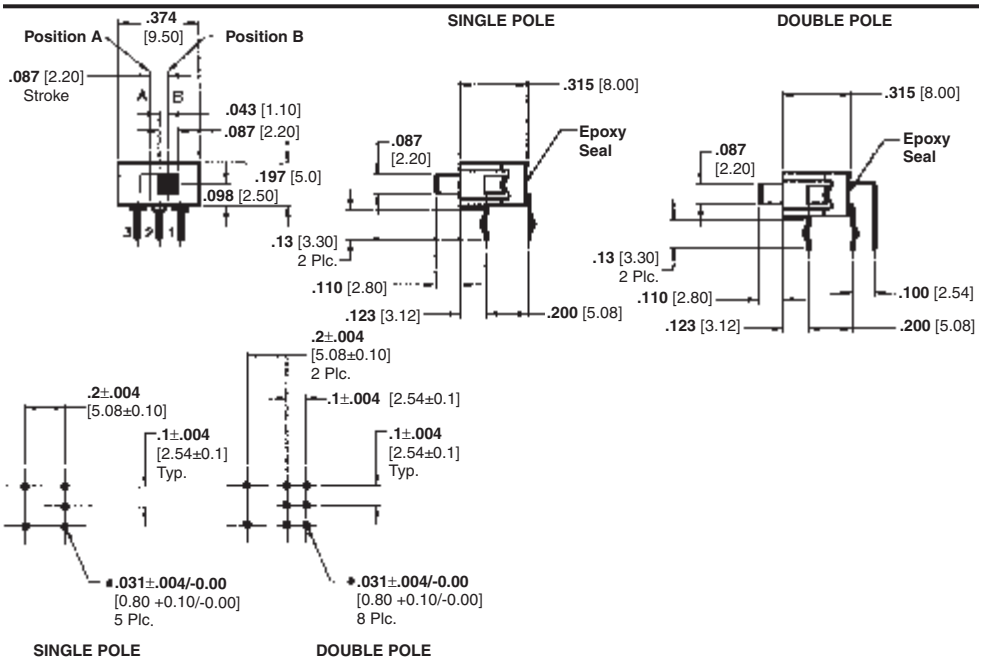
Sealed Part Numbers w/Boot

Tyco Electronics	Alcoswitch	Function
1437574-9	SE1DGPC	On-None-On
1-1437574-4	SE1EGPC	On-Off-On
1-1437574-6	SE2DGPC	On-None-On
2-1437574-0	SE2EGPC	On-Off-On

Unsealed Part Numbers w/o Boot

Tyco Electronics	Alcoswitch	Function
1571005-1	S1DGPC	On-None-On
1571005-2	S1EGPC	On-Off-On
1571005-3	S2DGPC	On-None-On
1571005-4	S2EGPC	On-Off-On

Switch, Slide, Right Angle, S/SE GRA (Shown w/o Boot)



Sealed Part Numbers w/Boot

Tyco Electronics	Alcoswitch	Function
1-1437574-1	SE1DGRA	On-None-On
1-1437574-5	SE1EGRA	On-Off-On
1-1437574-8	SE2DGRA	On-None-On
2-1437574-1	SE2EGRA	On-Off-On

Unsealed Part Numbers w/o Boot

Tyco Electronics	Alcoswitch	Function
1571006-1	S1DGRA	On-None-On
1571006-2	S1EGRA	On-Off-On
1571006-3	S2DGRA	On-None-On
1571006-4	S2EGRA	On-Off-On

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UK: 44-141-810-8967

Slide Switches, Miniature, Low Profile, Economy Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper alloy
Case Material .....Steel zinc plated
Actuator Material .....Polyester (UL 94HB)
Terminal Seal .....Epoxy
Terminals/Fixed Contacts .....Silver plate copper alloy

ENVIRONMENTAL SPECIFICATIONS:

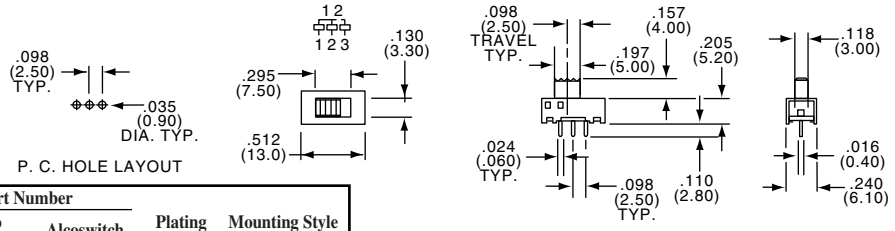
Operating Temperature..... -5°F to 140°F (-15°C to +60°C)
Storage Temperature.....-4°F to +158°F (-20°C to +70°C)
Solder Heat Resistance.....MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....300 mA @ 125 VAC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Make-before-break
Insulation Resistance .....100 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC
Actuation Force .....250 Grams, +150 Grams, -100 Grams
Actuator Travel.....0.098" (2.49)
Life Expectancy .....Up to 10,000 Cycles

NOTICE: Bifurcated contact produces double wiping, self-cleaning contacts.

SPDT

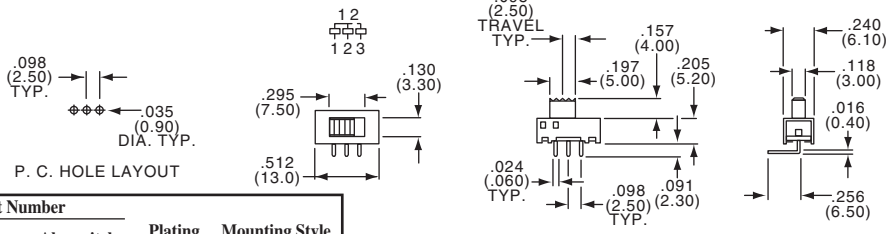


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
5-1437577-8	STS121PC	Silver	Upright



STS121PC

SPDT

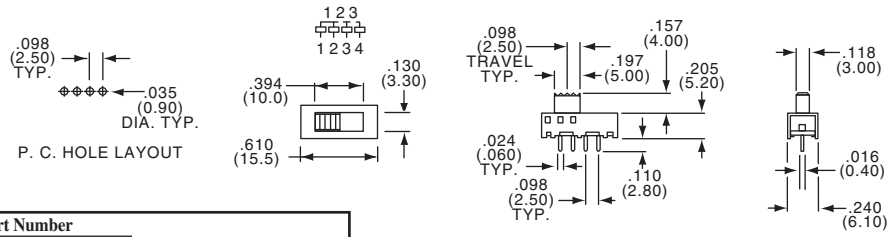


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
5-1437577-9	STS121RA	Silver	Right Angle



STS121RA

SP3T

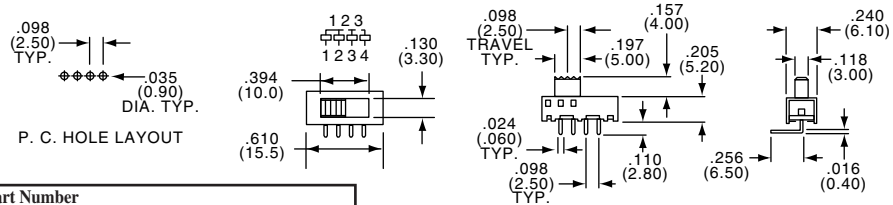


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-2	STS131PC	Silver	Upright



STS131PC

SP3T



Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-3	STS131RA	Silver	Right Angle



STS131RA

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Japan: 81-44-844-8013
UK: 44-141-810-8967

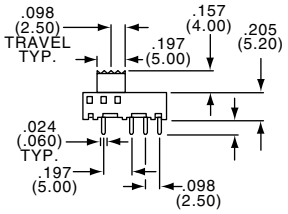
Slide Switches, Miniature, Low Profile, Economy Grade

SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

SP3T



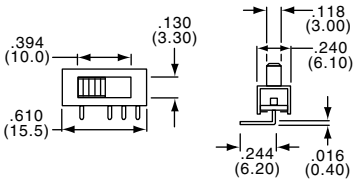
STS1300PC



P. C. HOLE LAYOUT



STS1300RA

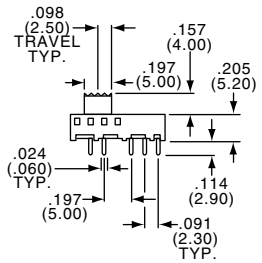


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-0	STS1300PC	Silver	Upright
6-1437577-1	STS1300RA	Silver	Right Angle

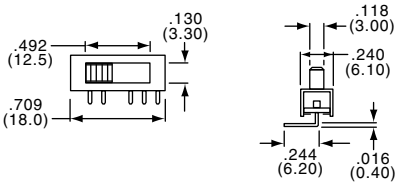
SP4T



STS1400PC



P. C. HOLE LAYOUT

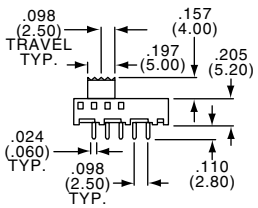


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-5	STS1400PC	Silver	Upright
6-1437577-6	STS1400RA	Silver	Right Angle

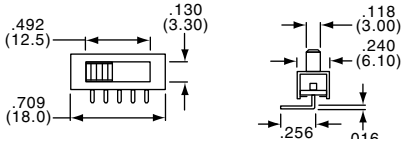
SP4T



STS141RA



P.C. HOLE LAYOUT



Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-7	STS141PC	Silver	Upright
6-1437577-8	STS141RA	Silver	Right Angle

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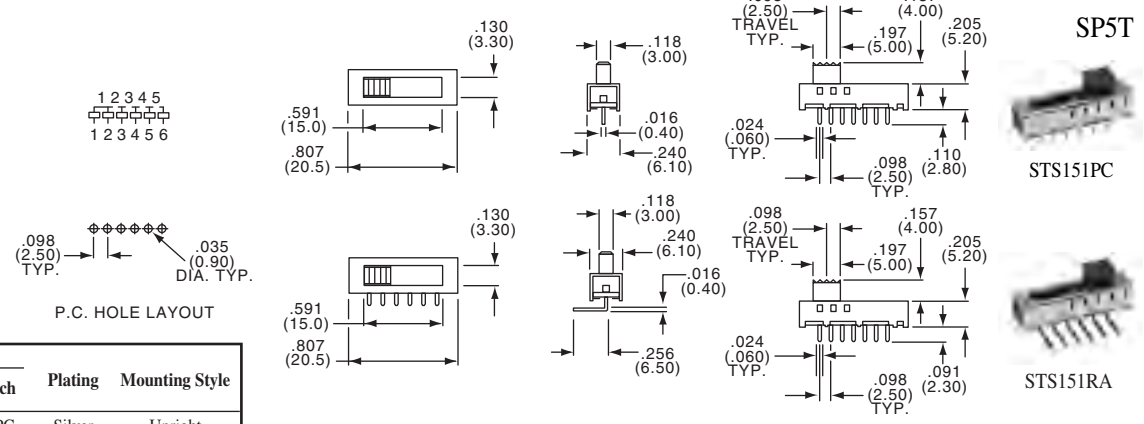
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Miniature, Low Profile, Economy Grade

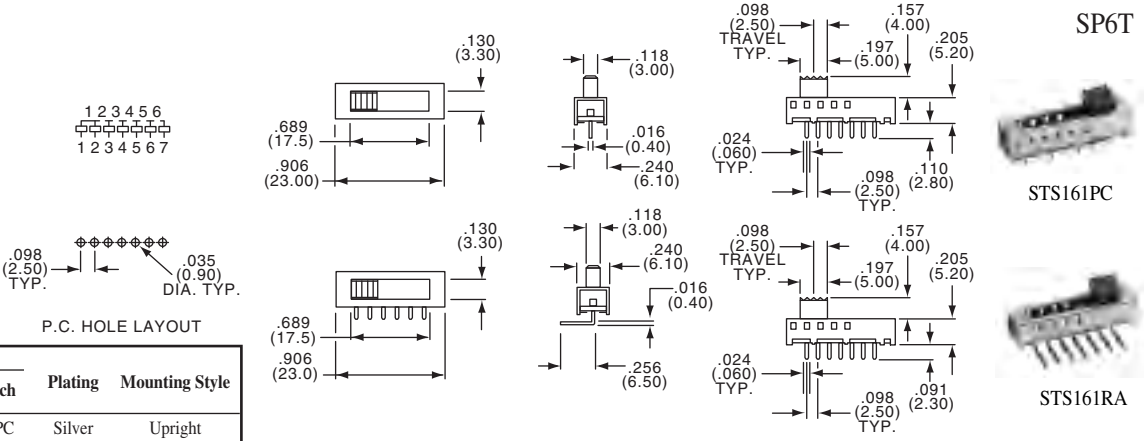
SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

SP5T



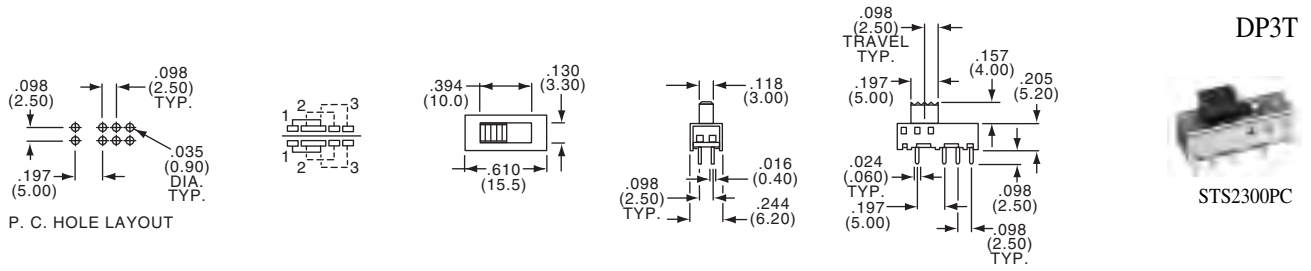
Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
6-1437577-9	STS151PC	Silver	Upright
7-1437577-0	STS151RA	Silver	Right Angle

SP6T

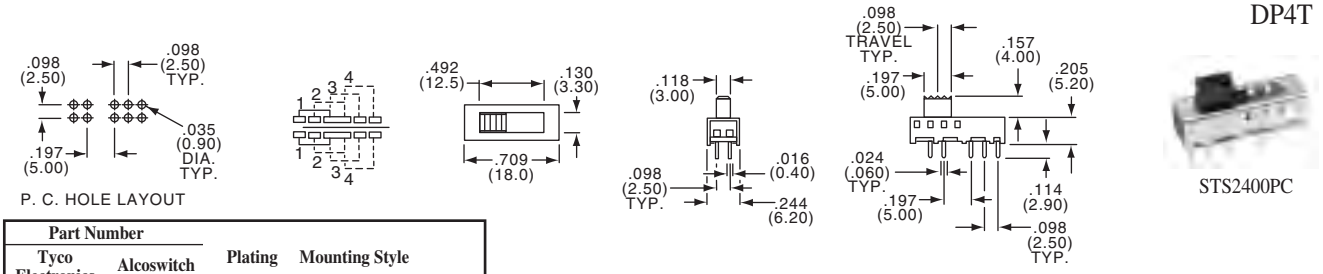


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
7-1437577-1	STS161PC	Silver	Upright
7-1437577-2	STS161RA	Silver	Right Angle

DP3T



DP4T



Part Number		Plating	Mounting Style	
Tyco Electronics	Alcoswitch			
7-1437577-4	STS2300PC	DP3T	Silver	Upright
7-1437577-6	STS2400PC	DP4T	Silver	Upright

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
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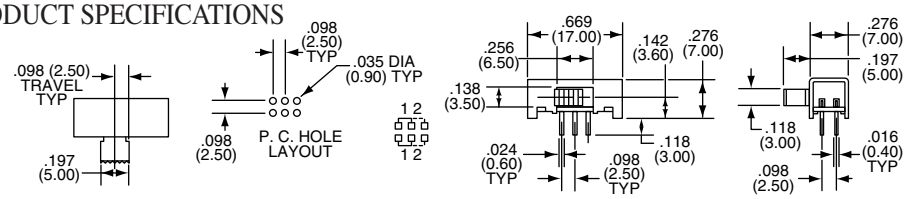
Slide Switches, Miniature, Low Profile, Economy Grade

SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

DPDT



STSA220RA

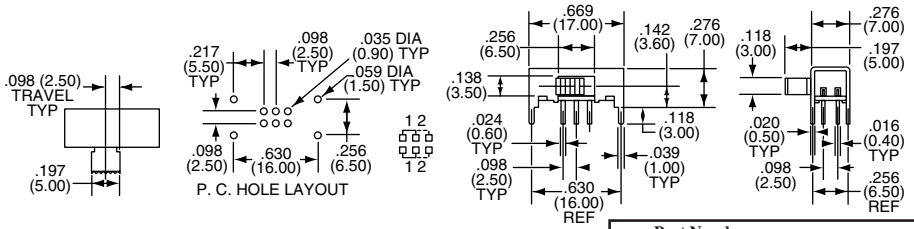


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
8-1437577-0	STSA220RA	Silver	Right Angle

DPDT



STSA220RA1

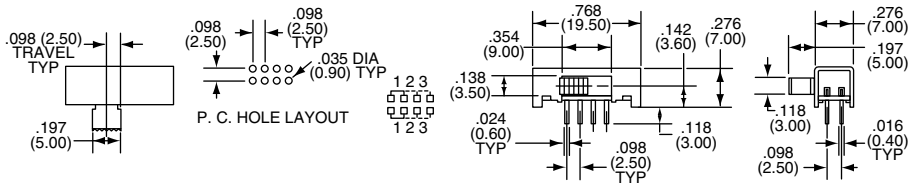


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
8-1437577-1	STSA220RA1	Silver	Right Angle

DP3T



STSA230RA

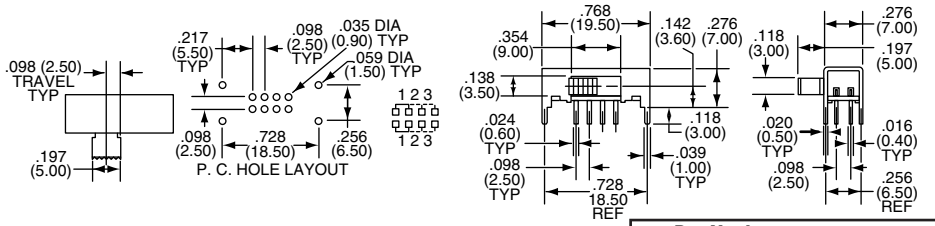


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
8-1437577-2	STSA230RA	Silver	Right Angle

DP3T



STSA230RA1

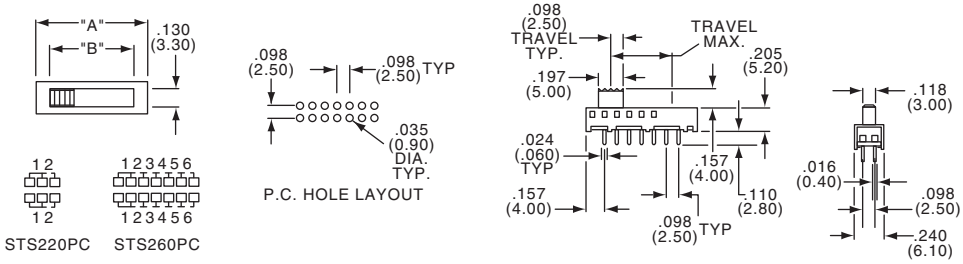


Part Number		Plating	Mounting Style
Tyco Electronics	Alcoswitch		
8-1437577-3	STSA230RA1	Silver	Right Angle

DP6T/DP5T/DP4T/ DP3T/DP2T



STS220PC



Part Number							Part Number						
Tyco Electronics	Alcoswitch	Type	Dim.A	Dim.B	Travel Max.	Pin Holes	Tyco Electronics	Alcoswitch	Type	Dim.A	Dim.B	Travel Max.	Pin Holes
7-1437577-3	STS220PC	DP2T	.512(13.0)	.295(7.50)	.098(2.50)	6	7-1437577-8	STS250PC	DP5T	.807(20.5)	.591(15.0)	.394(10.0)	12
7-1437577-5	STS230PC	DP3T	.610(15.5)	.394(10.0)	.197(5.00)	8	7-1437577-9	STS260PC	DP6T	.906(23.0)	.689(17.5)	.492(12.5)	14
7-1437577-7	STS240PC	DP4T	.709(18.0)	.492(12.5)	.295(7.50)	10							

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Instrument Grade, Decorative

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper alloy
Case Material .....Steel, tin plated
Actuator Material .....Polycarbonate
Terminals/Fixed Contacts .....Silver over nickel
Terminal Seal .....Epoxy

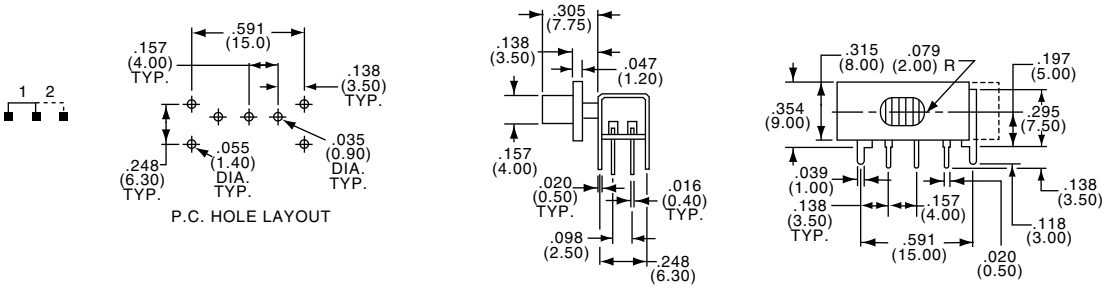
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-14°F to +140°F (-10°C to +60°C)
Storage Temperature.....-14°F to +140°F (-10°C to +60°C)
Solder Heat Resistance.....MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

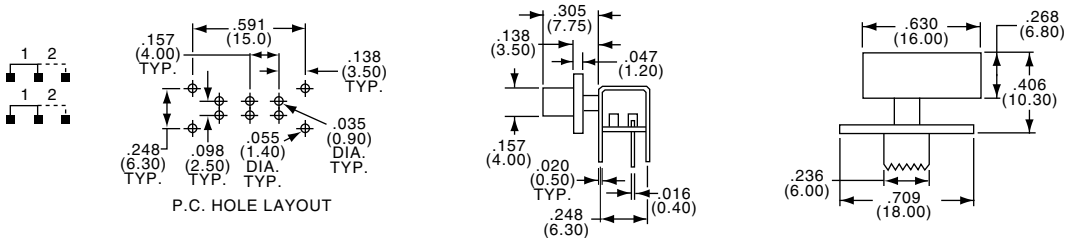
Contact Rating .....300 mA @ 125 VAC
Initial Contact Resistance.....20 Milliohms max.
Insulation Resistance .....1,000 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC
Actuation Force .....0.250 Grams, +200/-150
Plunger/Actuator Travel .....0.079" (2.01)
Life Expectancy .....Up to 10,000 Cycles

SPDT/DPDT



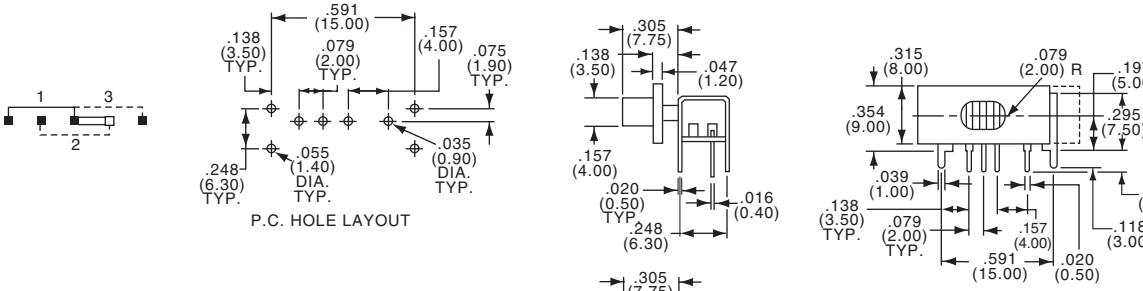


SDS2240RA0



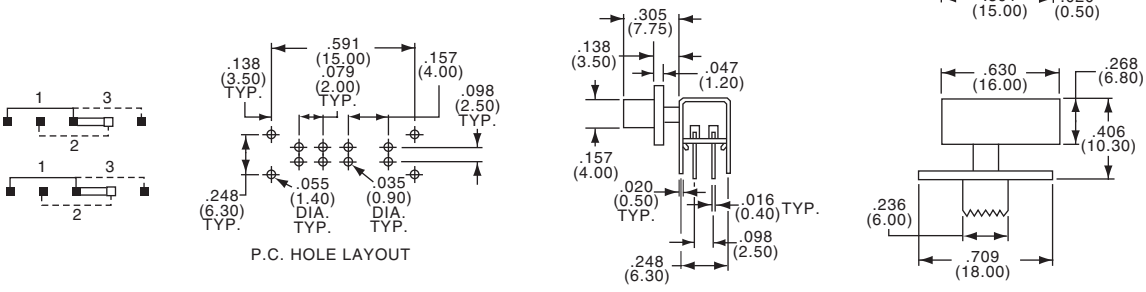
Part Number							Part Number						
Tyco Electronics	Alcoswitch	Type				Actuator Color	Tyco Electronics	Alcoswitch	Type				Actuator Color
1437577-2	SDS1240RA0	SPDT	On	None	On	Black	1437577-6	SDS2240RA0	DPDT	On	None	On	Black
1437577-3	SDS1240RA8	SPDT	On	None	On	Gray	—	SDS2240RA8	DPDT	On	None	On	Gray

SP3T/DP3T





SDS1340RA8



Part Number							Part Number						
Tyco Electronics	Alcoswitch	Type				Actuator Color	Tyco Electronics	Alcoswitch	Type				Actuator Color
1437577-4	SDS1340RA0	SP3T	On	On	On	Black	1437577-7	SDS2340RA0	DP3T	On	On	On	Black
1437577-5	SDS1340RA8	SP3T	On	On	On	Gray	—	SDS2340RA8	DP3T	On	On	On	Gray

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Vertical, Single or Dual Actuator

MATERIAL SPECIFICATIONS:

Contacts .....Copper w/gold plate over nickel
Case Material .....High temperature polyester (94-VO)
Actuator Material .....Polyester (94-VO)
Terminals .....Copper alloy tin/lead/nickel or gold/nickel
Terminal Seal .....Epoxy standard: single pole, optional: double pole

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4°F to + 176°F (-20°C to + 80°C)
Storage Temperature .....-4°F to + 176°F (-20°C to + 80°C)

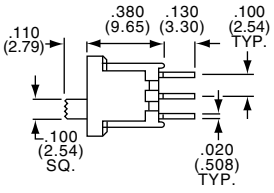
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA max. @ 20 VDC or peak AC
Initial Contact Resistance .....20 Millohms max.
Contact Timing .....Non-shorting
Insulation Resistance .....1,000 Megohms min. @ 500 VDC
Dielectric Strength .....1,000 Volts RMS @ sea level
Plunger/Actuator Travel .....0.120" (3.05)
Life Expectancy .....Up to 60,000-80,000 Cycles

SPST/SPDT


TSS11DGPC

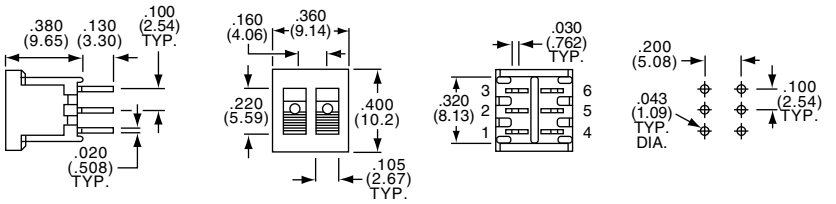

TSS11DG1PC



SPST/SPDT (DUAL)


TSD21AAGPC


TSD21DDG1PC



Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
1437578-3	TSS11AGPC	SPST	A	On	None	Off
1-1437589-0	TSS11DGPC	SPDT	D	On	None	On
1-1437579-4	TSS11EGPC	SPDT	E	On	Off	On
Flush Actuator						
—	TSS11AG1PC	SPST	A	On	None	Off
1437579-8	TSS11DG1PC	SPDT	D	On	None	On
1-1437579-2	TSS11EG1PC	SPDT	E	On	Off	On

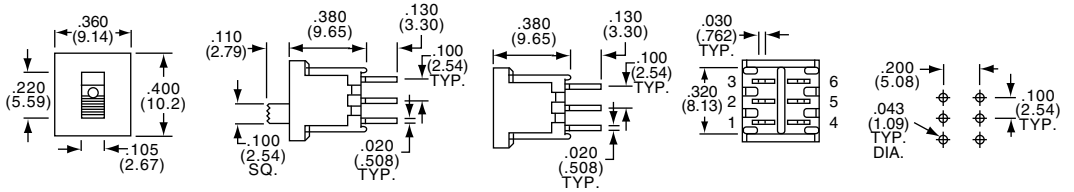
Extended Dual Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
—	TSD21AAGPC	2 x SPST	A	On	None	Off
1437579-5	TSD21DDGPC	2 x SPDT	D	On	None	On
Flush Dual Actuator						
—	TSD21DDG1PC	2 x SPDT	D	On	None	On

Note: No center terminals on "A" action switches.

DPST/DPDT


TSS21NGPC


TSS21PGPC



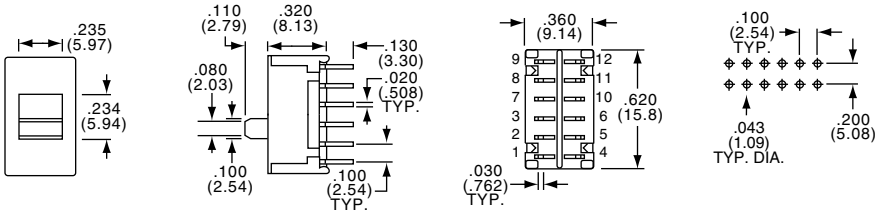
Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
1-1437579-6	TSS21KGPC	DPST	K	On	None	Off
1-1437579-9	TSS21NGPC	DPDT	N	On	None	On
2-1437579-3	TSS21PGPC	DPDT	P	On	Off	On

Flush Actuator Tyco Electronics	Alcoswitch	Act. Code Type	P. M6			
—	TSS21KG1PC	DPST	K	On	None	Off
1-1437579-7	TSS21NG1PC	DPDT	N	On	None	On
2-1437579-1	TSD21RG1PC	DPDT	P	On	Off	On

Note: No center terminals on "K" action switches.

4PDT


TSS41NGPC



Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
2-1437579-5	TSS41NGPC	4PDT	N	On	None	On

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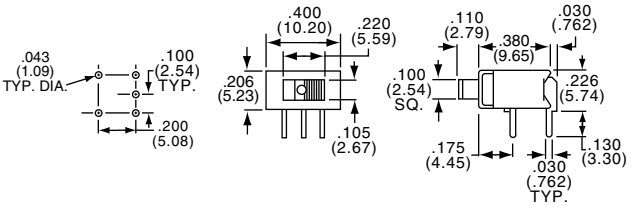
USA: 1-800-522-6752
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Slide Switches, Right Angle, Single or Dual Actuator

SEE PAGE B18 FOR PRODUCT SPECIFICATIONS

SPDT

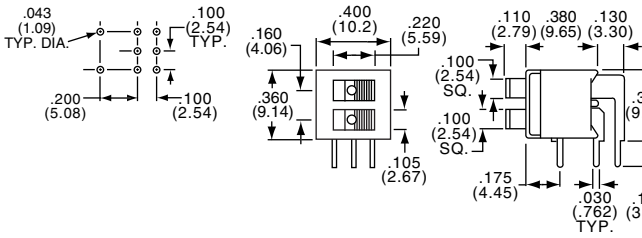




TSS11DG1RA TSS11DGRA

Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6				Flush Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
1-1437579-1	TSS11DGRA	SPDT	D	On	None	On	1437579-9	TSS11DG1RA	SPDT	D	On	None	On
1-1437579-5	TSS11EGRA	SPDT	E	On	Off	On	1-1437579-3	TSS11EG1RA	SPDT	E	On	Off	On

SPDT (DUAL)

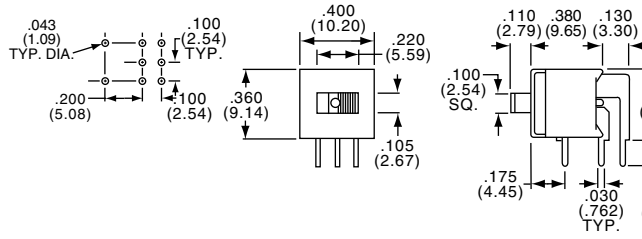




TSD21DDG1RA TSD21DDGRA

Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6				Flush Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
1437579-6	TSD21DDGRA	2 x SPDT	D	On	None	On	1437579-4	TSD21DDG1RA	2 x SPDT	D	On	None	On
1437579-7	TSD21EEGRA	2 x SPDT	E	On	Off	On	—	TSD21EEG1RA	2 x SPDT	E	On	Off	On

DPDT

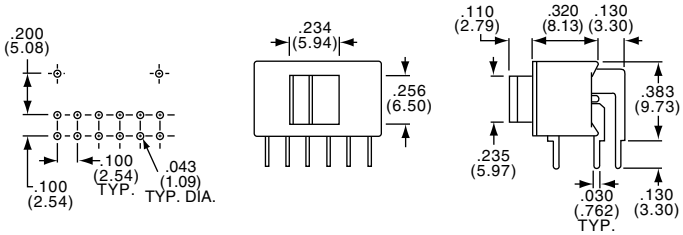




TSS21PG1RA TSS21NGRA

Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6				Flush Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
—	TSS21PAGRA	SP3T	PA	On	On	On	—	TSS21NG1RA	DPDT	N	On	None	On
2-1437579-0	TSS21NGRA	DPDT	N	On	None	On	—	TSS21PG1RA	DPDT	P	On	Off	On
2-1437579-4	TSS21PGRA	DPDT	P	On	Off	On							

4PDT





TSS41NGRA

Extended Actuator Tyco Electronics	Alcoswitch	Type	Act. Code P. M6			
2-1437579-7	TSS41NGRA	4PDT	N	On	None	On

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Japan: 81-44-844-8013
UK: 44-141-810-8967

B

MSS Series

Slide Switches, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Gold or silver over nickel/copper alloy
Frame Material .....Tin plated steel
Terminals/Fixed Contacts.....Gold or silver over nickel/over copper alloy
Terminal Seal .....Epoxy
Actuator Material POM-UL94HB

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
Solder Heat Resistance.....See page M3-4

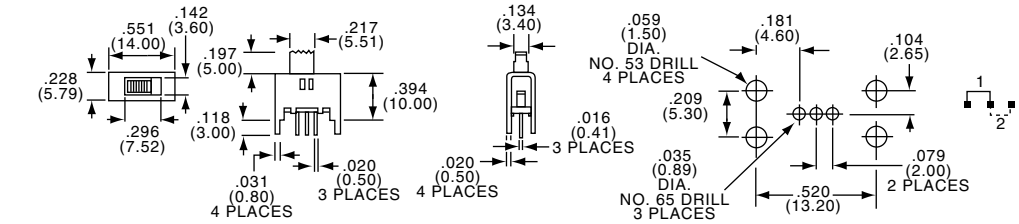
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA 20 VDC or peak AC
Silver: 300 mA @ 125 VAC
Initial Contact Resistance .....20 Milliohms max.
Contact Timing .....Make before break
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....100 to 600 Grams
Life Expectancy .....Up to 15,000 Cycles
Travel .....0.079" (2.01) (unless otherwise specified)

SPDT

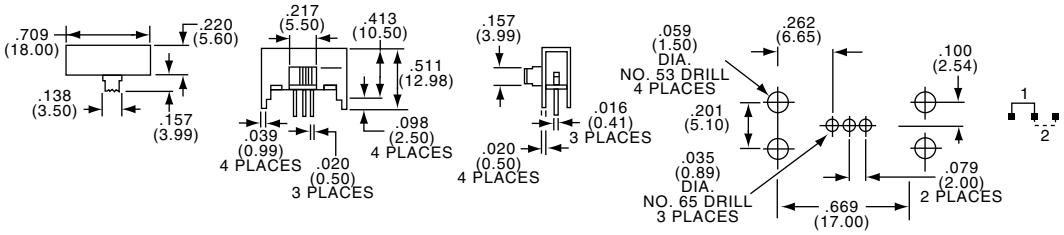


MSS1200





MSS1200R

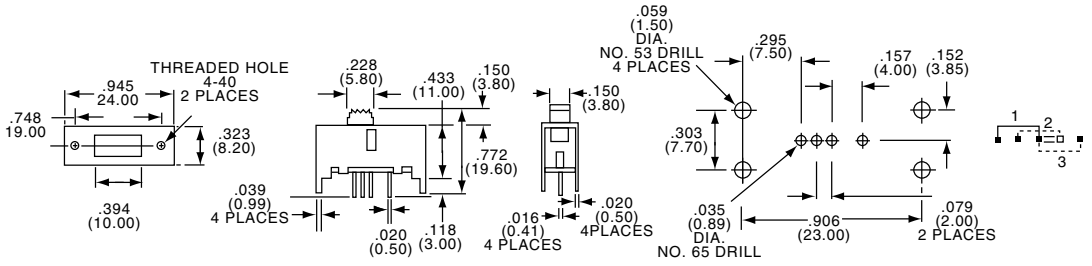


Tyco Electronics	Alcoswitch	Plating	Tyco Electronics	Alcoswitch	Plating
5-1437576-0	MSS1200	Silver	5-1437576-2	MSS1200R	Silver
5-1437576-1	MSS1200G	Gold	5-1437576-3	MSS1200RG	Gold

SP3T

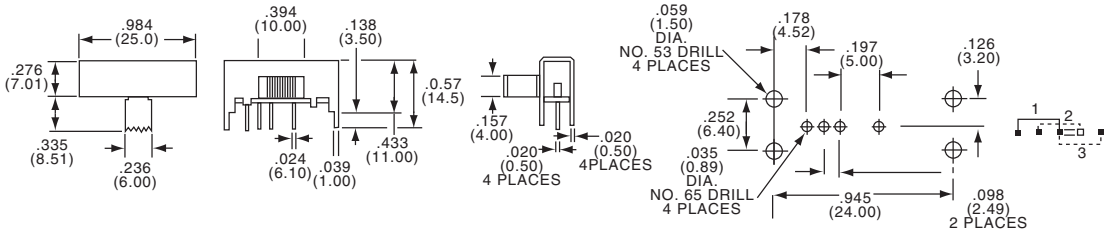


MSS1300





MSS1300R



Tyco Electronics	Alcoswitch	Plating	Tyco Electronics	Alcoswitch	Plating	Total Actuator Travel
5-1437576-4	MSS1300	Silver	5-1437576-6	MSS1300R	Silver	.098(2.50)
5-1437576-5	MSS1300G	Gold	5-1437576-7	MSS1300RG	Gold	.098(2.50)

Catalog 1308390
Issued 9-04

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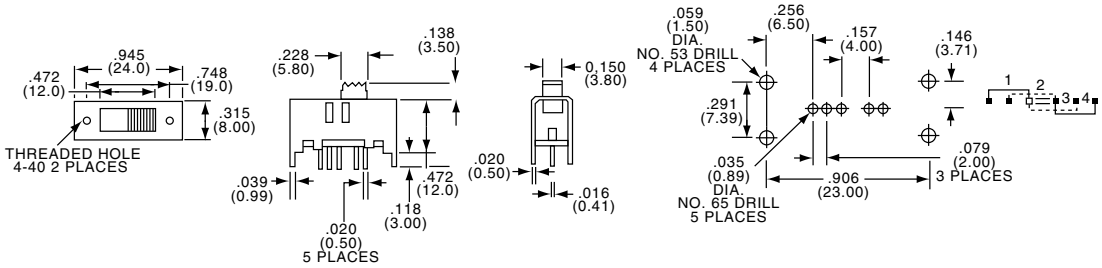
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
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Japan: 81-44-844-8013
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Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

SP4T

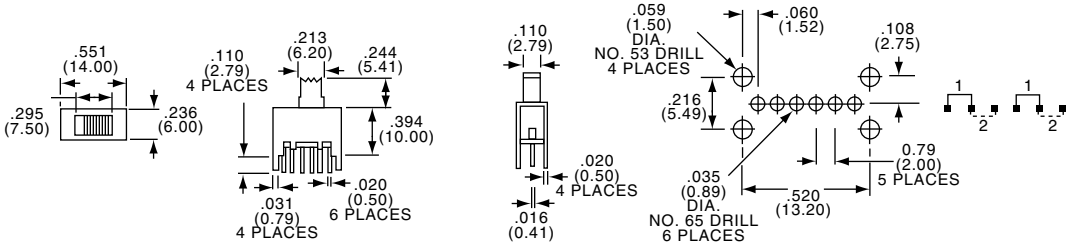




MSS1400

Tyco Electronics	Alcoswitch	Plating
5-1437576-8	MSS1400	Silver
1571423-1	MSS1400G	Gold

DPDT

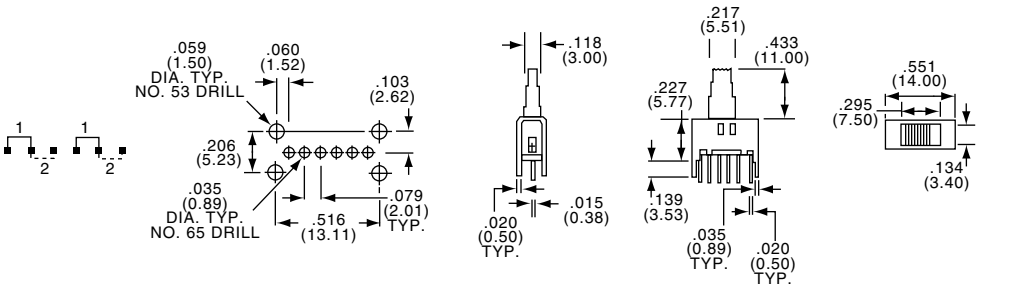




MSS2225

Tyco Electronics	Alcoswitch	Plating
6-1437576-3	MSS2225	Silver
6-1437576-4	MSS2225G	Gold

DPDT





MSS2250

Tyco Electronics	Alcoswitch	Plating
6-1437576-5	MSS2250	Silver
6-1437576-6	MSS2250G	Gold

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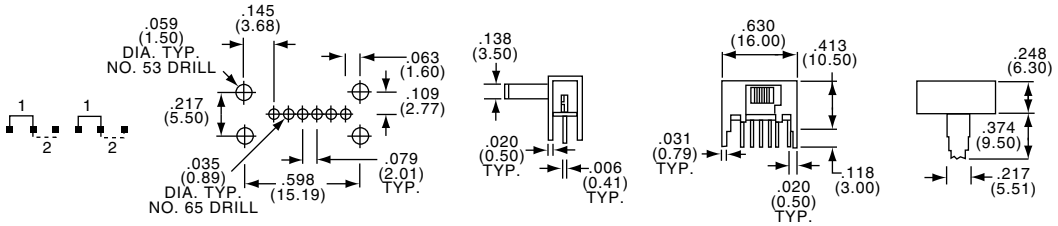
Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

DPDT



MSS2250R

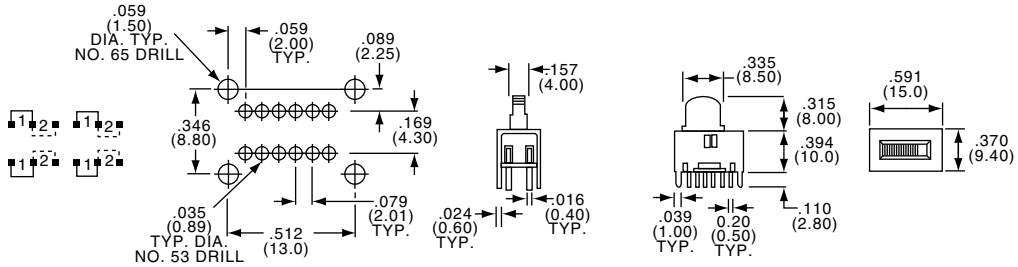


Tyco Electronics	Alcoswitch	Plating
6-1437576-7	MSS2250R	Silver
6-1437576-8	MSS2250RG	Gold

4PDT



MSS4200

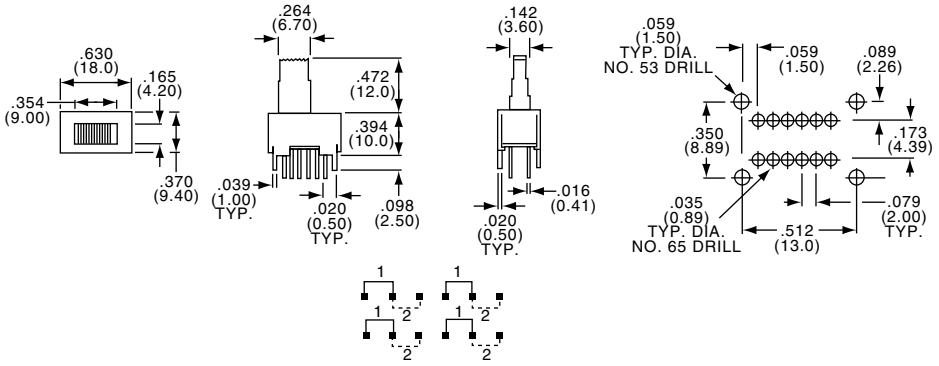


Tyco Electronics	Alcoswitch	Plating
6-1437576-9	MSS4200	Silver
7-1437576-0	MSS4200G	Gold

4PDT



MSS4250



Tyco Electronics	Alcoswitch	Plating
7-1437576-4	MSS4250	Silver

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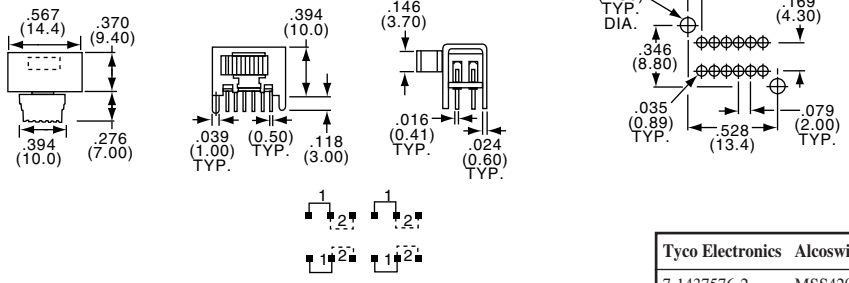
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Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

4PDT

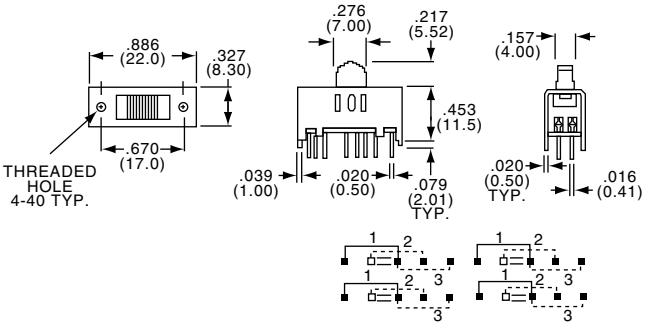


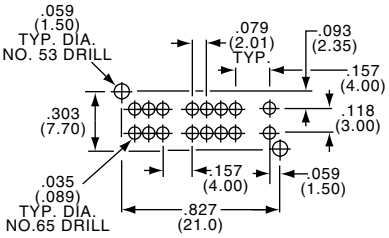


MSS4200R

Tyco Electronics	Alcoswitch	Plating
7-1437576-2	MSS4200R	Silver
7-1437576-3	MSS4200RG	Gold

4P3T



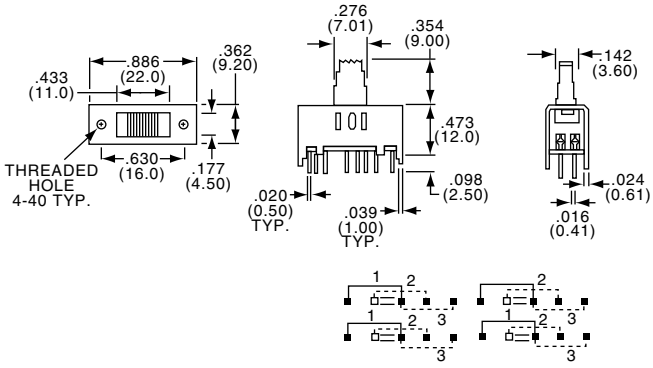


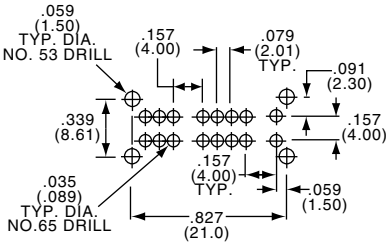


MSS4300

Tyco Electronics	Alcoswitch	Plating
7-1437576-5	MSS4300	Silver
7-1437576-6	MSS4300G	Gold

4P3T







MSS4335

Tyco Electronics	Alcoswitch	Plating
7-1437576-9	MSS4335	Silver

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B

MSS Series

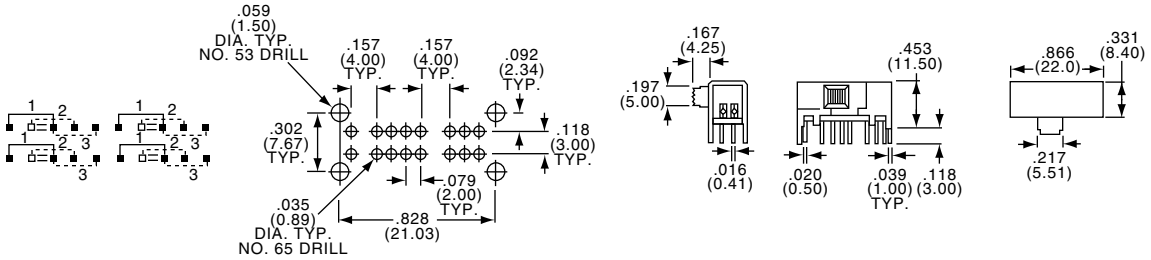
Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

4P3T



MSS4300R

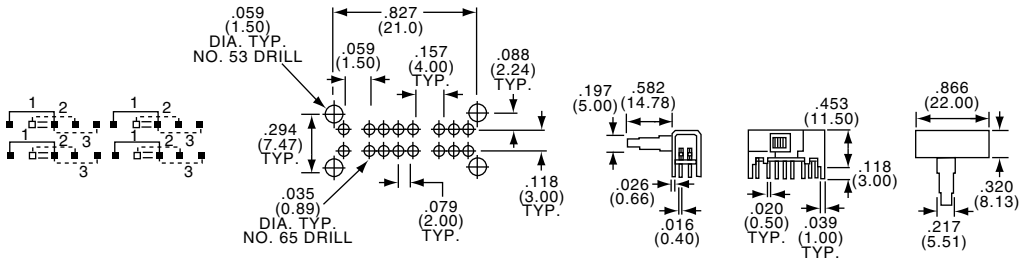


Tyco Electronics	Alcoswitch	Plating
7-1437576-7	MSS4300R	Silver
7-1437576-8	MSS4300RG	Gold

4P3T



MSS4350R

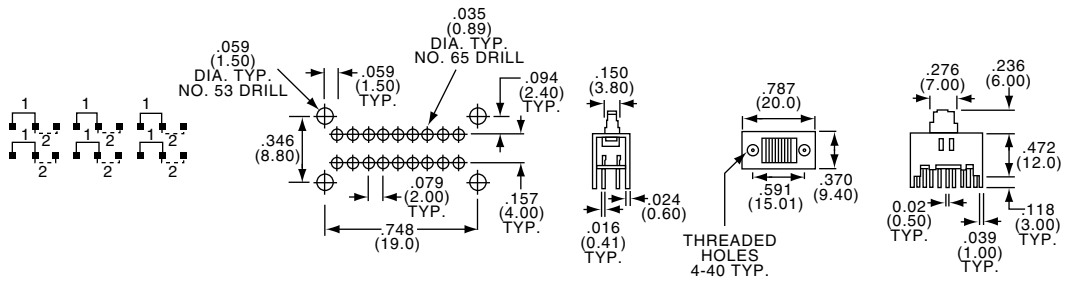


Tyco Electronics	Alcoswitch	Plating
8-1437576-0	MSS4350R	Silver
8-1437576-1	MSS4350RG	Gold

6PDT



MSS6200



Tyco Electronics	Alcoswitch	Plating
8-1437576-8	MSS6200	Silver
8-1437576-9	MSS6200G	Gold

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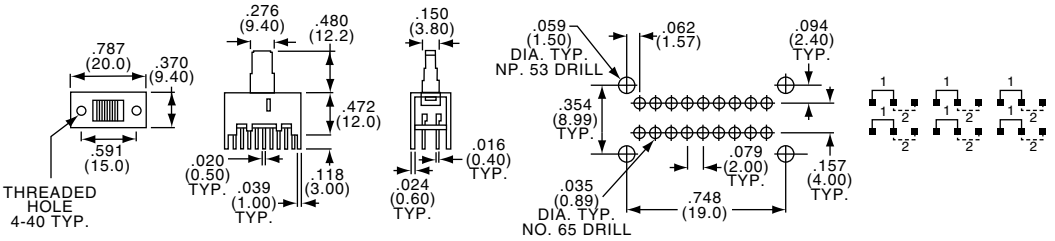
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Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

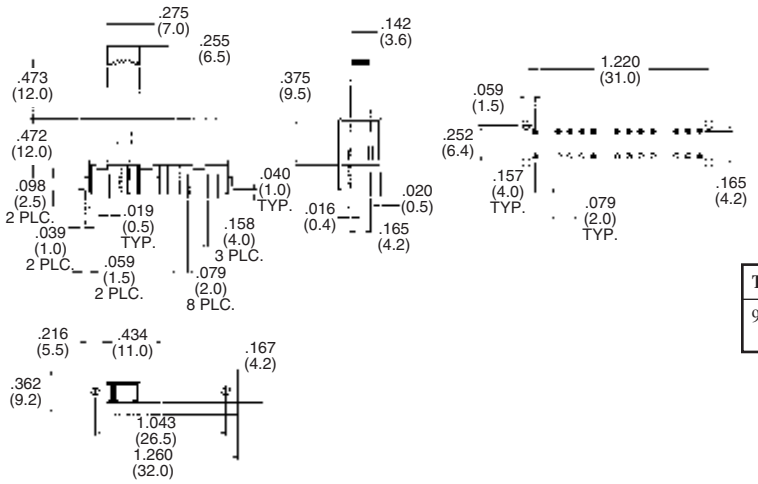
6PDT





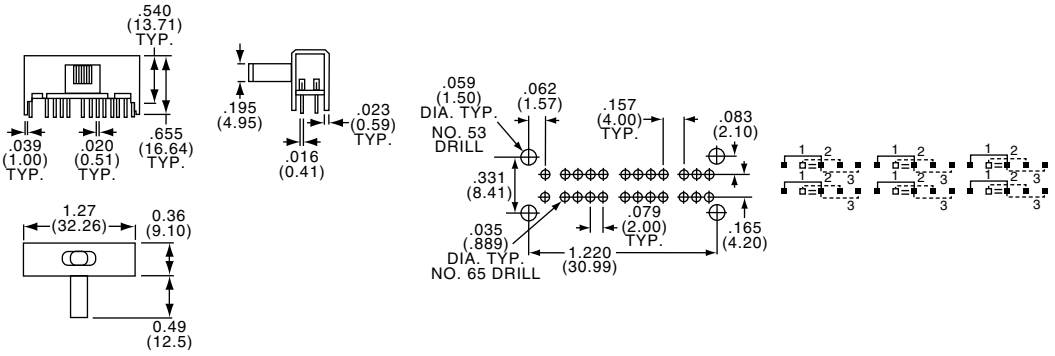
MSS6250

Tyco Electronics	Alcoswitch	Plating
9-1437576-0	MSS6250	Silver



Tyco Electronics	Alcoswitch	Plating
9-1437576-3	MSS6350	Silver
—	MSS6350G	Gold

6P3T





MSS6350R

Tyco Electronics	Alcoswitch	Plating
9-1437576-4	MSS6350R	Silver
—	MSS6350RG	Gold

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver or gold over copper alloy
Case Material .....Cold rolled steel
Actuator Material .....Polyester UL94V-0
Terminals/Fixed Contacts.....Gold or silver plate over copper alloy
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
Solder Heat Resistance.....See page M3-4

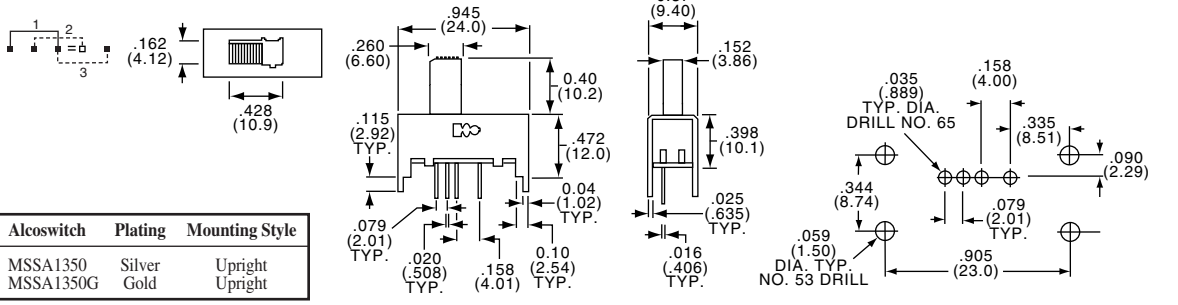
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA 20 VDC or peak AC
Silver: 300 mA @ 125 VAC
Initial Contact Resistance.....30 Milliohms max.
Contact Timing.....Make before break
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....600±300/470 Grams average
Actuator Travel.....0.079" (2.01) approximate
Life Expectancy .....Up to 15,000 Cycles

SP3T



MSSA1350

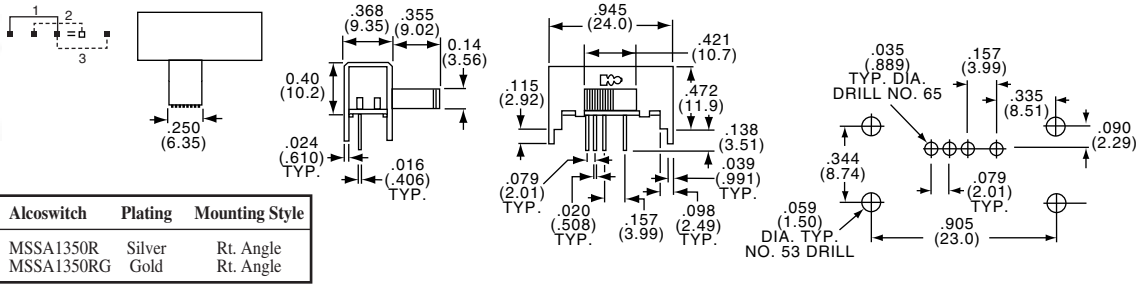


Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437580-3	MSSA1350	Silver	Upright
3-1437580-4	MSSA1350G	Gold	Upright

SP3T



MSSA1350R

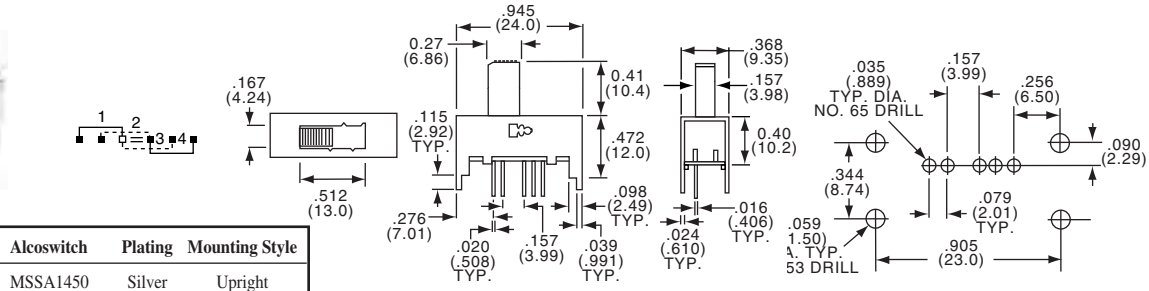


Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437580-5	MSSA1350R	Silver	Rt. Angle
3-1437580-6	MSSA1350RG	Gold	Rt. Angle

SP4T



MSSA1450

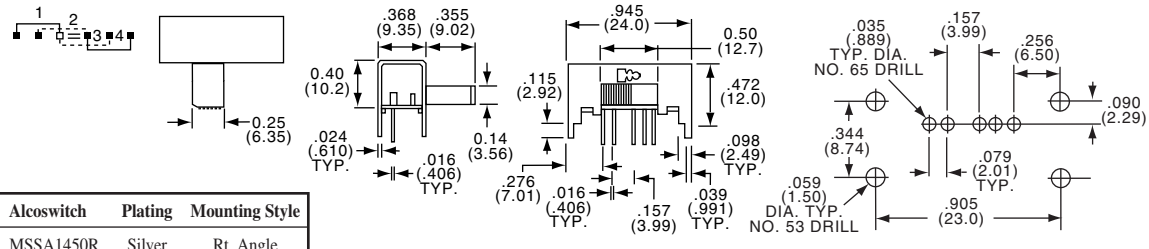


Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437580-7	MSSA1450	Silver	Upright
3-1437580-8	MSSA1450G	Gold	Upright

SP4T



MSSA1450R



Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437580-9	MSSA1450R	Silver	Rt. Angle
4-1437580-0	MSSA1450RG	Gold	Rt. Angle

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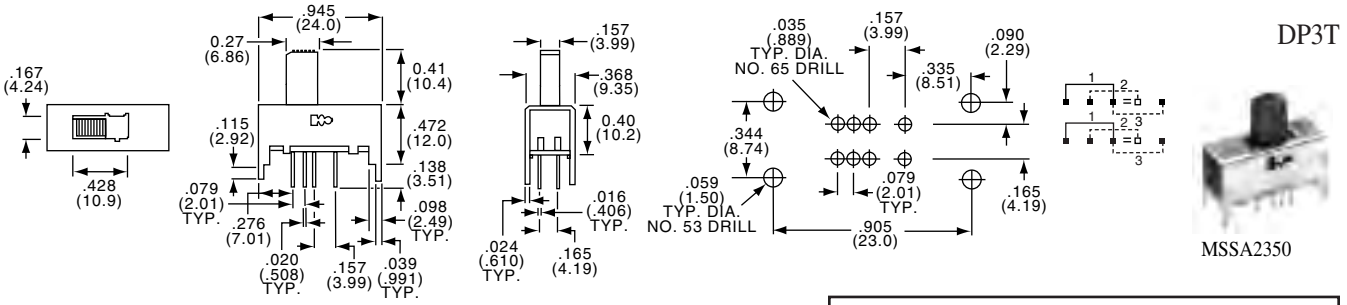
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Slide Switches, Instrumentation Grade

SEE PAGE B26 FOR PRODUCT SPECIFICATIONS

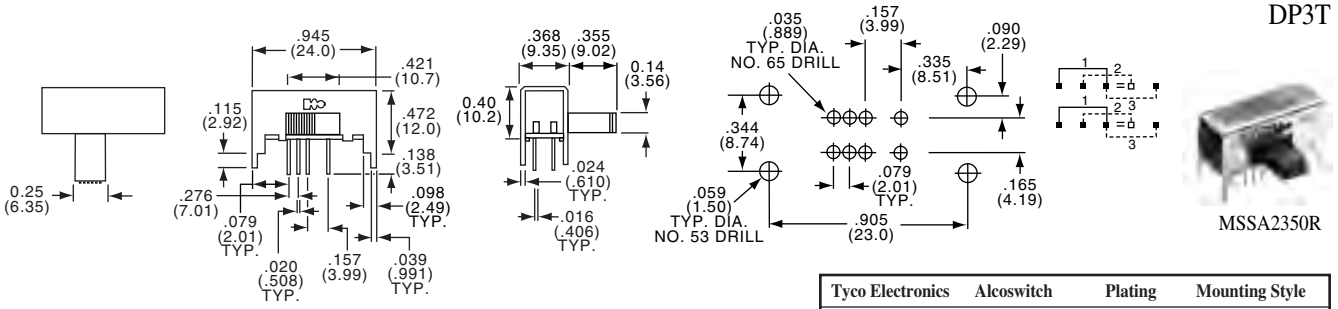
DP3T



MSSA2350

Tyco Electronics	Alcoswitch	Plating	Mounting Style
5-1437580-3	MSSA2350	Silver	Upright
5-1437580-4	MSSA2350G	Gold	Upright

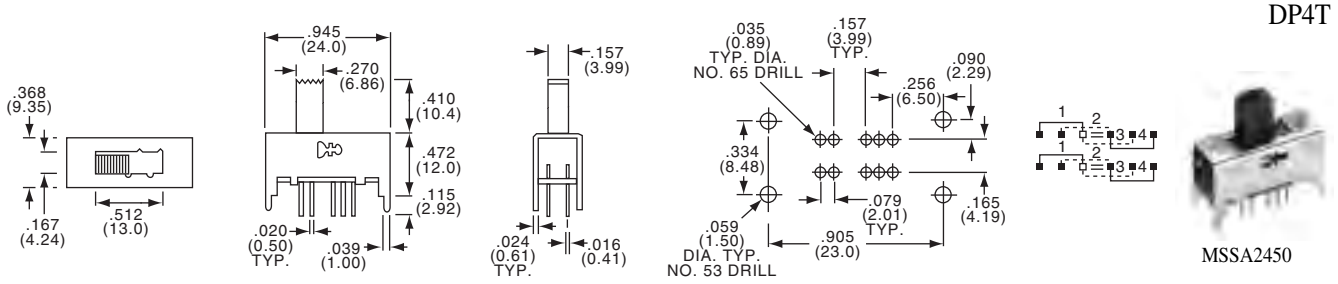
DP3T



MSSA2350R

Tyco Electronics	Alcoswitch	Plating	Mounting Style
5-1437580-5	MSSA2350R	Silver	Rt. Angle
5-1437580-6	MSSA2350RG	Gold	Rt. Angle

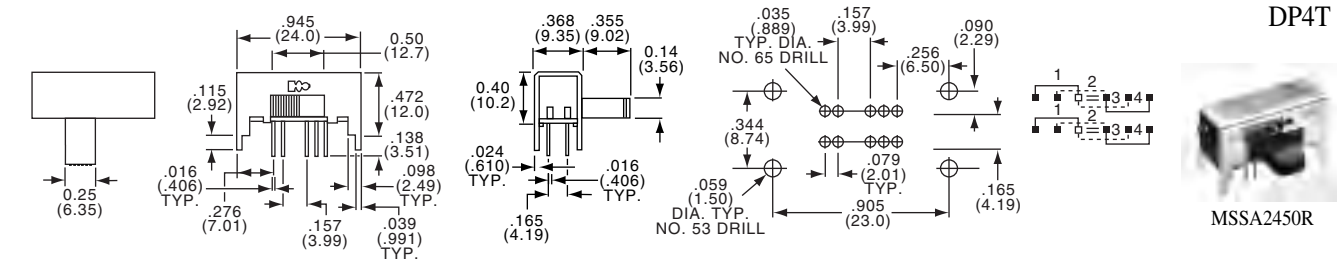
DP4T



MSSA2450

Tyco Electronics	Alcoswitch	Plating	Mounting Style
5-1437580-7	MSSA2450	Silver	Upright
5-1437580-8	MSSA2450G	Gold	Upright

DP4T



MSSA2450R

Tyco Electronics	Alcoswitch	Plating	Mounting Style
5-1437580-9	MSSA2450R	Silver	Rt. Angle
6-1437580-0	MSSA2450RG	Gold	Rt. Angle

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B

MSSA Series

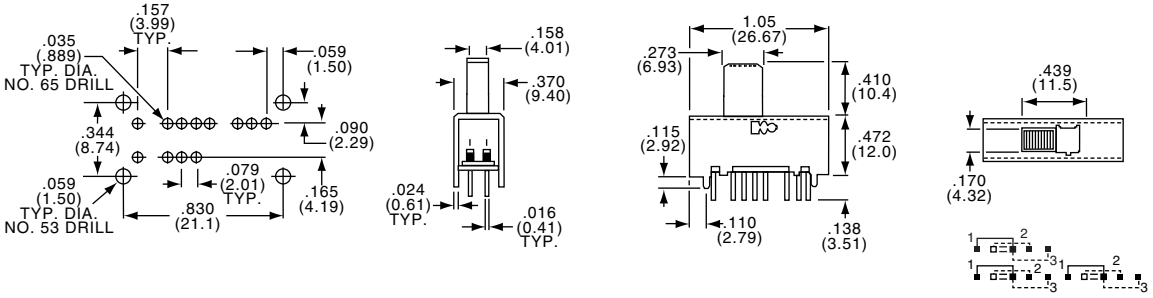
Slide Switches, Instrumentation Grade

SEE PAGE B26 FOR PRODUCT SPECIFICATIONS

3P3T



MSSA3350

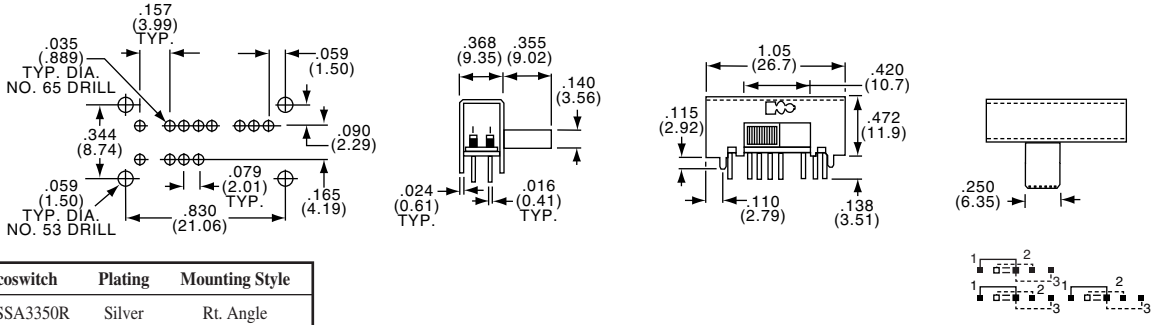


Tyco Electronics	Alcoswitch	Plating	Mounting Style
6-1437580-1	MSSA3350	Silver	Upright
6-1437580-2	MSSA3350G	Gold	Upright

3P3T



MSSA3350R

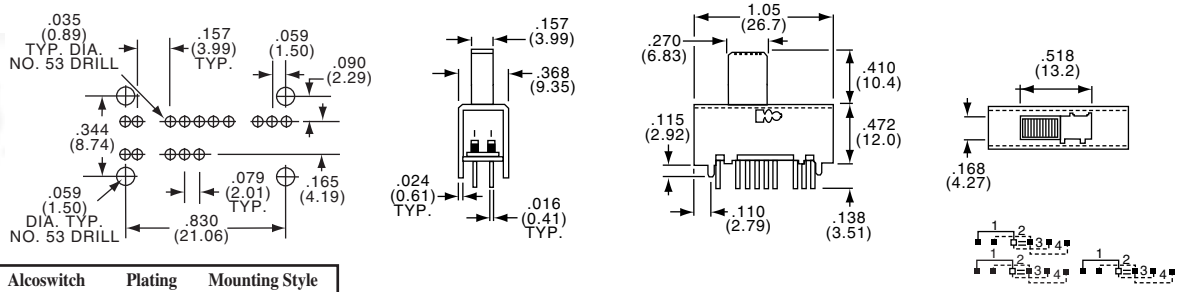


Tyco Electronics	Alcoswitch	Plating	Mounting Style
6-1437580-3	MSSA3350R	Silver	Rt. Angle
6-1437580-4	MSSA3350RG	Gold	Rt. Angle

3P4T



MSSA3450

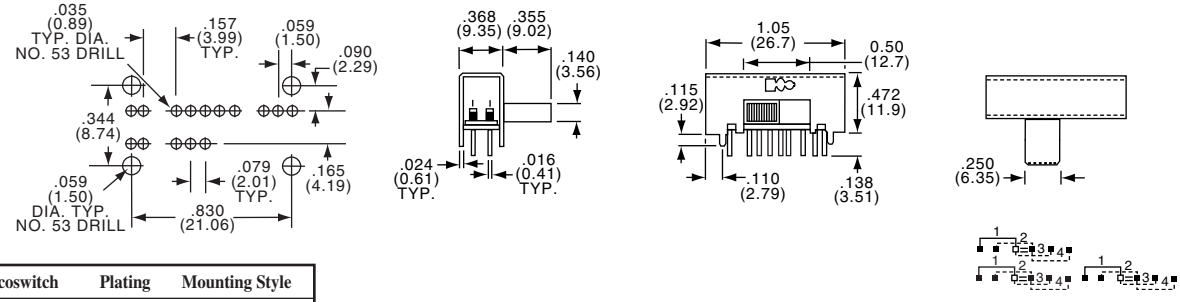


Tyco Electronics	Alcoswitch	Plating	Mounting Style
6-1437580-5	MSSA3450	Silver	Upright
6-1437580-6	MSSA3450G	Gold	Upright

3P4T



MSSA3450R



Tyco Electronics	Alcoswitch	Plating	Mounting Style
6-1437580-7	MSSA3450R	Silver	Rt. Angle
6-1437580-8	MSSA3450RG	Gold	Rt. Angle

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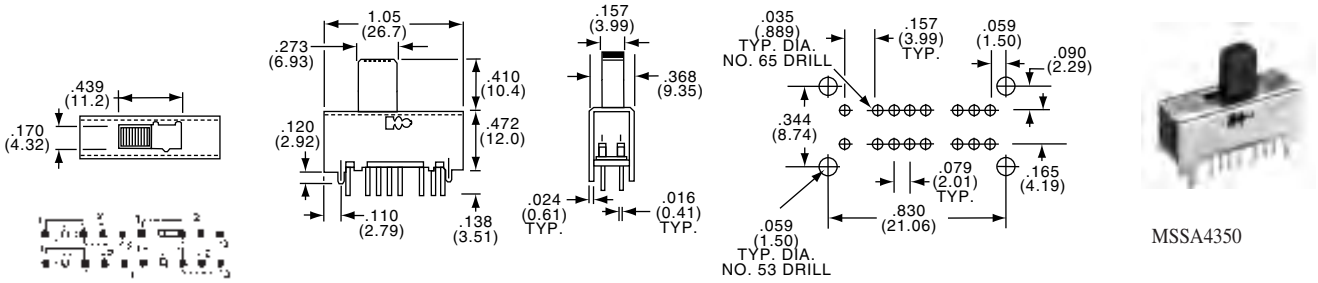
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Slide Switches, Instrumentation Grade

SEE PAGE B26 FOR PRODUCT SPECIFICATIONS

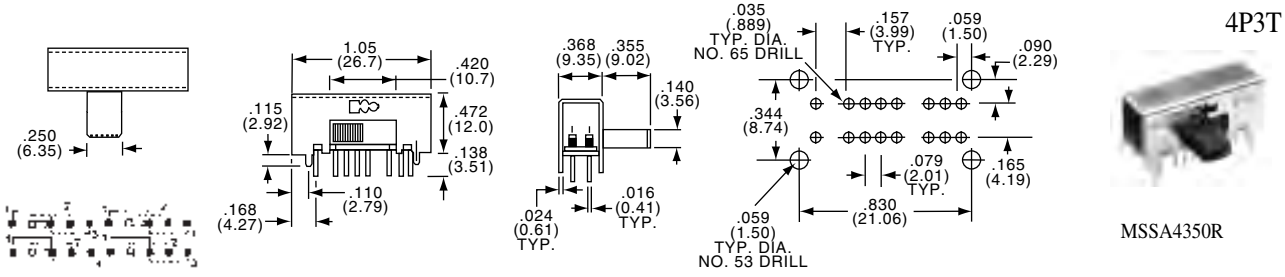
4P3T



MSSA4350

Tyco Electronics	Alcoswitch	Plating	Mounting Style
6-1437580-9	MSSA4350	Silver	Upright
7-1437580-0	MSSA4350G	Gold	Upright

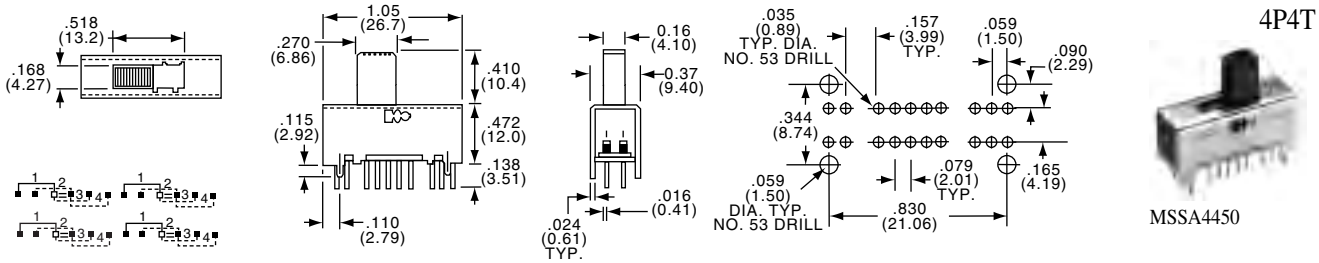
4P3T



MSSA4350R

Tyco Electronics	Alcoswitch	Plating	Mounting Style
7-1437580-1	MSSA4350R	Silver	Rt. Angle
7-1437580-2	MSSA4350RG	Gold	Rt. Angle

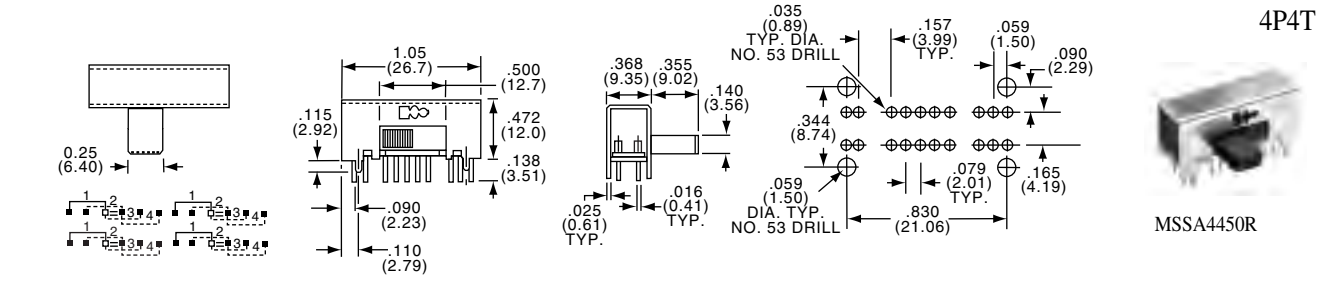
4P4T



MSSA4450

Tyco Electronics	Alcoswitch	Plating	Mounting Style
7-1437580-3	MSSA4450	Silver	Upright
7-1437580-4	MSSA4450G	Gold	Upright

4P4T



MSSA4450R

Tyco Electronics	Alcoswitch	Plating	Mounting Style
7-1437580-5	MSSA4450R	Silver	Rt. Angle
7-1437580-6	MSSA4450RG	Gold	Rt. Angle

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Instrumentation Grade, .200 Terminal Spacing

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad or gold plate
Case Material .....Polyester
Actuator Material .....Polyamide
Terminals .....Gold or silver plate
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4ºF to +149ºF (-20°C to +65°C)
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
Solder Heat Resistance.....See page M3-4

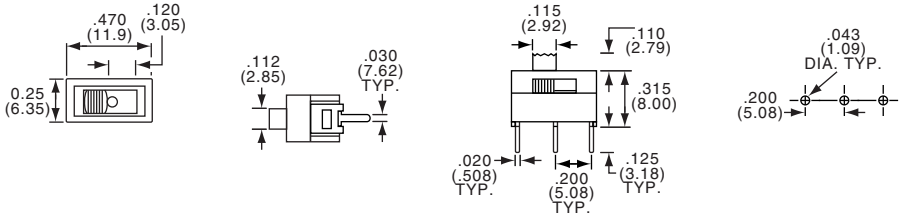
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA max. 20 VDC or peak AC
Silver: 3 A @ 115 VAC, 1.5A @ 230 VAC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Non-shorting
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....600 ±300 Grams
Actuator Travel..... .120" (3.05) Approximate
Life Expectancy .....Up to 30,000 Cycles

SPDT



MSSA114D

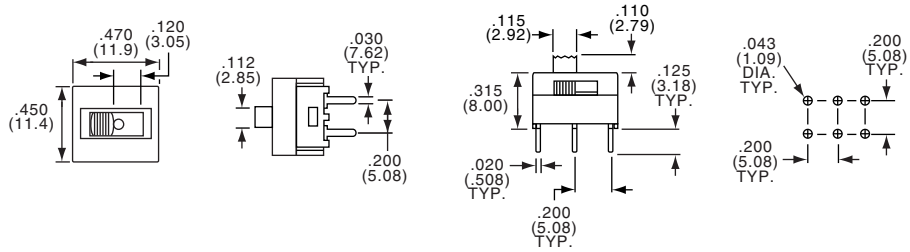


Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
2-1437580-9	MSSA111DG	D	On	None	On	Gold
3-1437580-0	MSSA111EG	E	On	Off	On	Gold
3-1437580-1	MSSA114D	D	On	None	On	Silver
3-1437580-2	MSSA114E	E	On	Off	On	Silver

DPDT



MSSA214N



Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
4-1437580-9	MSSA211NG	N	On	None	On	Gold
5-1437580-2	MSSA214N	N	On	None	On	Silver

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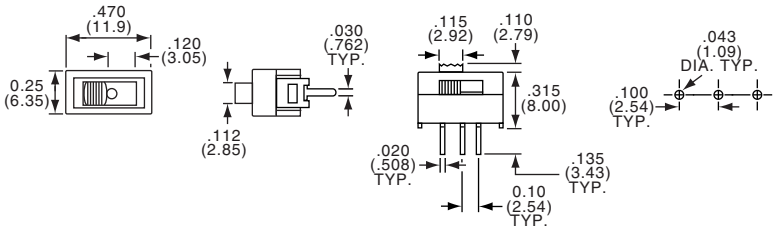
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Instrumentation Grade, .100 Terminal Spacing

SEE PAGE B30 FOR PRODUCT SPECIFICATIONS

SPDT

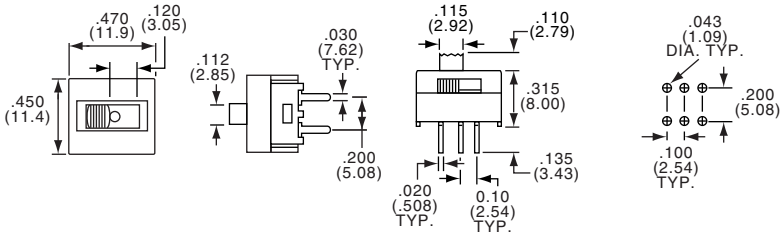




MSSA104D

Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
1-1437580-7	MSSA101DG	D	On	None	On	Gold
—	MSSA101EG	E	On	Off	On	Gold
2-1437580-3	MSSA104D	D	On	None	On	Silver
2-1437580-6	MSSA104E	E	On	Off	On	Silver

DPDT

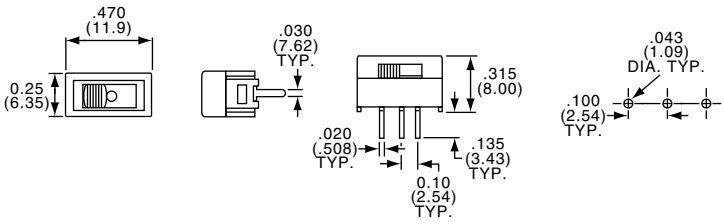




MSSA204N

Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
4-1437580-4	MSSA204N	N	On	None	On	Silver

SPDT FLUSH ACTUATOR

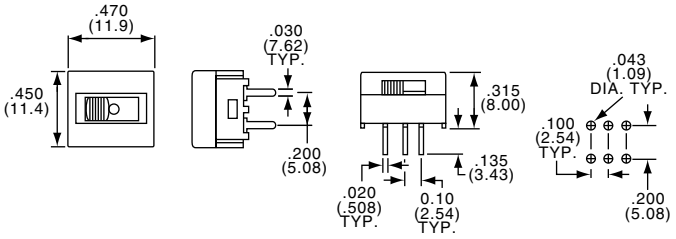




MSSA104D1

Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
2-1437580-4	MSSA104D1	D	On	None	On	Silver

DPDT FLUSH ACTUATOR





MSSA204N1

Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
4-1437580-5	MSSA204N1	N	On	None	On	Silver
4-1437580-8	MSSA204P1	P	On	Off	On	Silver

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Japan: 81-44-844-8013
UK: 44-141-810-8967

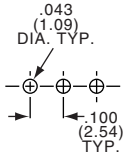
Slide Switches, Instrumentation Grade, .100 Terminal Spacing

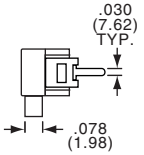
SEE PAGE B30 FOR PRODUCT SPECIFICATIONS

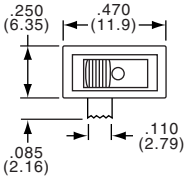
SPDT

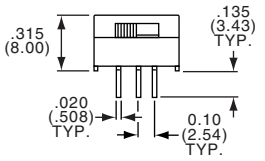


MSSA101DGRA







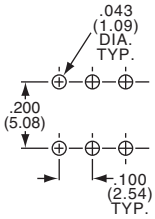


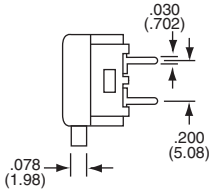
Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
1-1437580-9	MSSA101DGRA	D	On	None	On	Gold
2-1437580-1	MSSA101EGRA	E	On	Off	On	Gold
2-1437580-5	MSSA104DRA	D	On	None	On	Silver
2-1437580-8	MSSA104ERA	E	On	Off	On	Silver

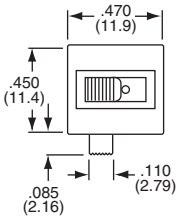
DPDT

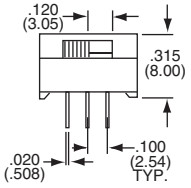


MSSA204NRA









Tyco Electronics	Alcoswitch	Act. Code Pg. M5				Contacts
4-1437580-2	MSSA201NGRA	N	On	None	On	Gold
8-1437580-2	MSSA201PGRA	P	On	Off	On	Gold
4-1437580-6	MSSA204NRA	N	On	None	On	Silver
—	MSSA204PRA	P	On	Off	On	Silver

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Low Profile, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Gold or silver over nickel over Cu alloy
Frame Material .....Nickel plated, Steel
Actuator Material .....POM 94 HB
Terminals/Fixed Contacts.....Gold or silver over nickel over Cu alloy
Terminal Seal .....Epoxy

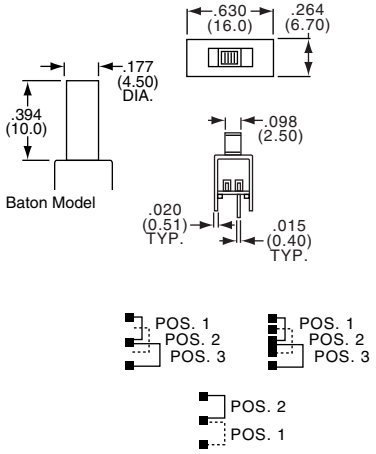
ENVIRONMENTAL SPECIFICATIONS:

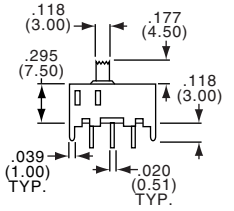
Operating Temperature.....-4°F to +212°F (-20°C to +100°C)
Storage Temperature.....-40°F to +212°F (-40°C to + 100°C)
Solder Heat Resistance.....See page M3-4
Recommended Cleaning.....No chlorine base or Freon can be used.
Aqueous or 100% ethanol.

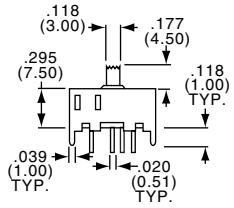
TYPICAL PERFORMANCE CHARACTERISTICS:

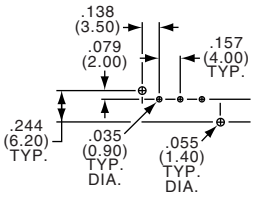
Contact Rating .....Gold: 0.4 VA 20 VDC or peak AC
Silver: 300 mA @ 125 VAC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Make-before-break
Insulation Resistance .....1000 Megohms min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....50 to 450 Grams
Actuator Travel.....0.079"-.158" (2.01-4.01)
Life Expectancy .....Up to 15,000 Cycles

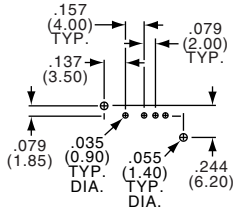
SPDT/SP3T











MHS122
MHS123
MHS133

Standard



MHS122

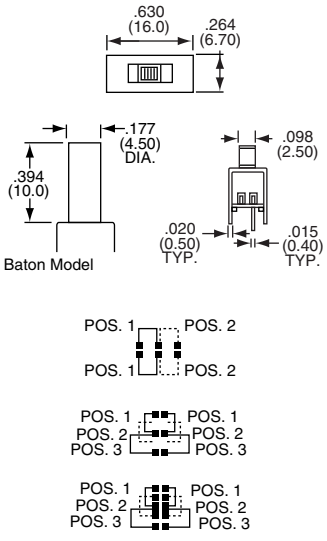
Baton

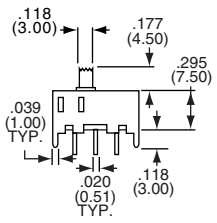


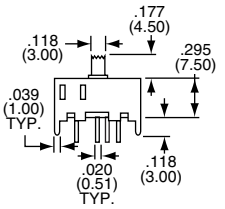
MHS122K

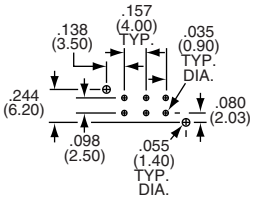
Standard Model Tyco Electronics	Alcoswitch	Baton Model Tyco Electronics	Alcoswitch	Type				Contacts
1437576-9	MHS122	1-1437576-2	MHS122K	SPDT	On	None	On	Silver
1-1437576-5	MHS123	1-1437576-7	MHS123K	SPDT	On	Off	On	Silver
1-1437576-9	MHS133	2-1437576-2	MHS133K	SP3T	On	On	On	Silver
1-1437576-0	MHS122G	1-1437576-3	MHS122KG	SPDT	On	None	On	Gold
—	MHS123G	—	MHS123KG	SPDT	On	Off	On	Gold
2-1437576-0	MHS133G	2-1437576-3	MHS133KG	SP3T	On	On	On	Gold

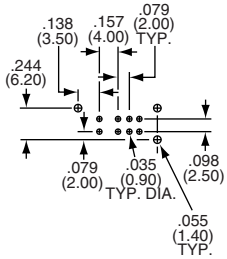
DPDT/DP3T











MHS222
MHS223
MHS233

Standard



MHS233

Baton



MHS233K

Standard Model Tyco Electronics	Alcoswitch	Baton Model Tyco Electronics	Alcoswitch	Type				Contacts
2-1437576-5	MHS222	2-1437576-8	MHS222K	DPDT	On	None	On	Silver
3-1437576-1	MHS223	3-1437576-4	MHS223K	DPDT	On	Off	On	Silver
3-1437576-6	MHS233	3-1437576-9	MHS233K	DP3T	On	On	On	Silver
2-1437576-6	MHS222G	2-1437576-9	MHS222KG	DPDT	On	None	On	Gold
3-1437576-2	MHS223G	—	MHS223KG	DPDT	On	Off	On	Gold
3-1437576-7	MHS233G	4-1437576-0	MHS233KG	DP3T	On	On	On	Gold

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Slide Switches, Low Profile, Right Angle, Instrumentation Grade

SEE PAGE B33 FOR PRODUCT SPECIFICATIONS

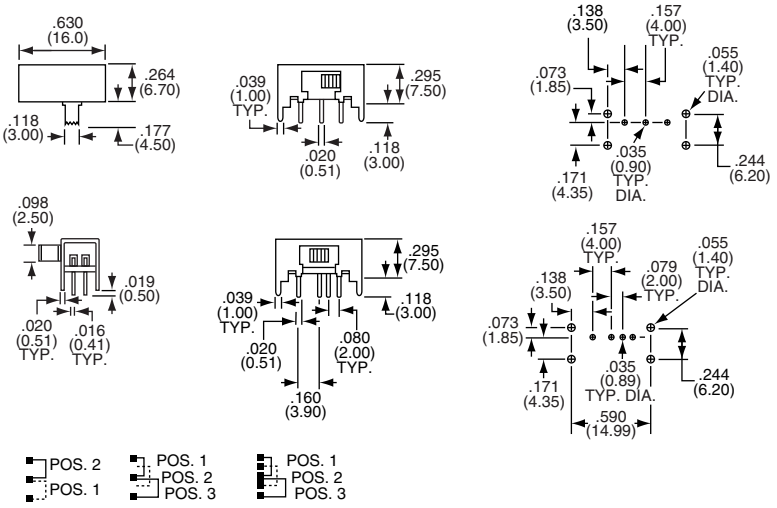
SPDT/SP3T



MHS122RA



MHS133GRA



Tyco Electronics	Alcoswitch	Type				Contacts
1-1437576-4	MHS122RA	SPDT	On	None	On	Silver
1-1437576-8	MHS123RA	SPDT	On	Off	On	Silver
2-1437576-4	MHS133RA	SP3T	On	On	On	Silver
1-1437576-1	MHS122GRA	SPDT	On	None	On	Gold
1-1437576-6	MHS123GRA	SPDT	On	Off	On	Gold
2-1437576-1	MHS133GRA	SP3T	On	On	On	Gold

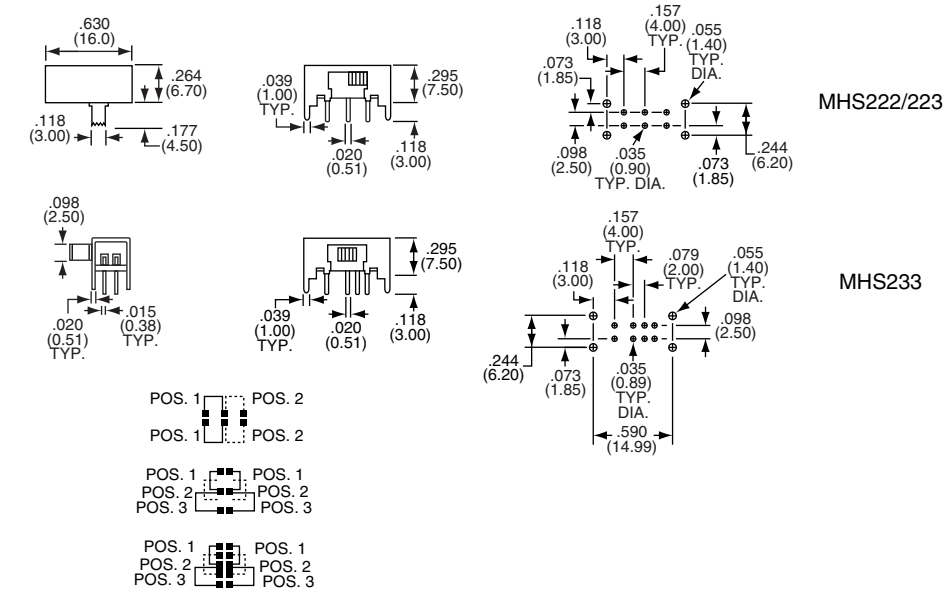
DPDT/DP3T



MHS222RA



MHS233GRA



Tyco Electronics	Alcoswitch	Type				Contacts
3-1437576-0	MHS222RA	DPDT	On	None	On	Silver
3-1437576-5	MHS223RA	DPDT	On	Off	On	Silver
4-1437576-1	MHS233RA	DP3T	On	On	On	Silver
2-1437576-7	MHS222GRA	DPDT	On	None	On	Gold
3-1437576-3	MHS223GRA	DPDT	On	Off	On	Gold
3-1437576-8	MHS233GRA	DP3T	On	On	On	Gold

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad plate over copper alloy
Cover Base Material .....Polyester
Actuator Material .....Polyacetal
Terminals .....Silver over nickel plate over copper alloy
Terminal Seal .....Molded in

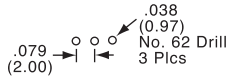
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
Storage Temperature.....-4°F to +140°F (-20°C to +60°C)
Solder Heat Resistance .....270°C+10°C, 5 seconds per MIL-STD-202, Method 210

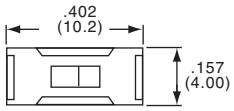
TYPICAL PERFORMANCE CHARACTERISTICS:

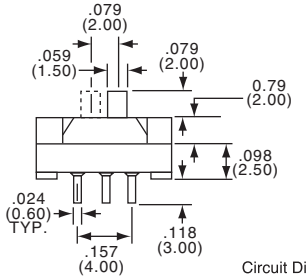
Contact Rating .....100 Milliamps @ 12 VDC
Initial Contact Resistance .....20 Milliohms max.
Contact Timing .....Make before break
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....250 Grams, (+200g, -150g)
Actuator Travel.....0.079" (2.01)
Life Expectancy .....Up to 10,000 Cycles

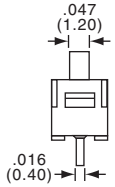
SPDT



PCB Hole Layout









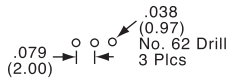
SSJ12

Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437575-1	SSJ12	Silver	Upright

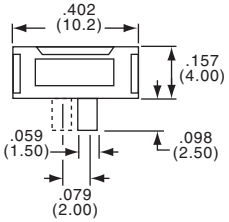
Circuit Diagram

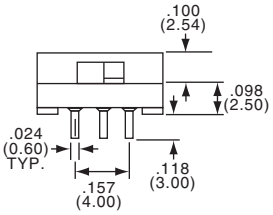


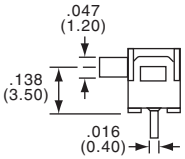
SPDT



PCB Hole Layout









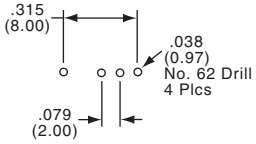
SSJ12R

Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437575-2	SSJ12R	Silver	Right Angle

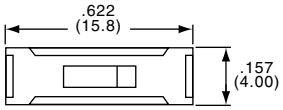
Circuit Diagram

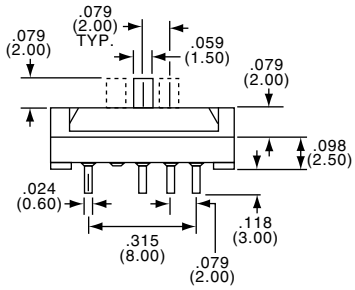


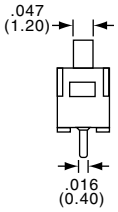
SP3T



PCB Hole Layout









SSJ13

Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
3-1437575-3	SSJ13	Silver	Upright

Circuit Diagram



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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel over copper alloy
Case Material .....Polyacetal UL94HB
Actuator Material .....Polyester UL94HB
Terminals .....Silver over nickel over copper alloy
Terminal Seal .....Epoxy
Terminal Board.....UL 94 V-O

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
Storage Temperature.....+14°F to +140°F (-10°C to +60°C)
Solder Heat Resistance .....230 ± 150 grams ± 5ºC for 3 seconds per MIL-STD-202, Method 210

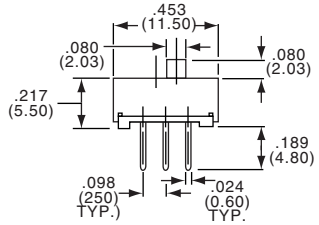
TYPICAL PERFORMANCE CHARACTERISTICS:

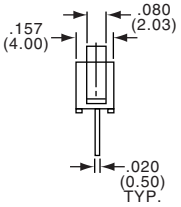
Contact Rating .....100 mA @ 30 VDC or peak AC
Initial Contact Resistance .....30 Millohms max.
Contact Timing .....Make before break
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....200 ± 150 Grams
Life Expectancy .....Up to 10,000 Cycles

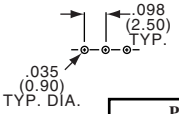
SPDT



MMS12







Circuit Diagram

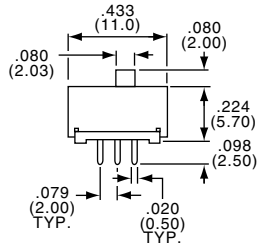


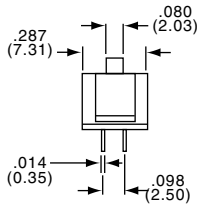
Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-4	MMS12	SPDT	Silver	Upright

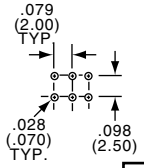
DPDT



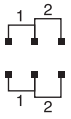
MMS22







Circuit Diagram

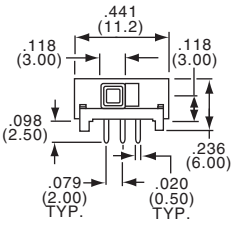


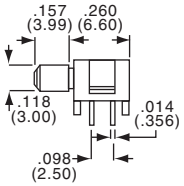
Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-5	MMS22	DPDT	Silver	Upright

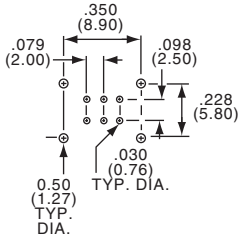
DPDT



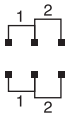
MMS22R







Circuit Diagram

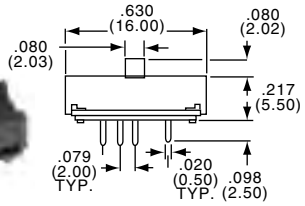


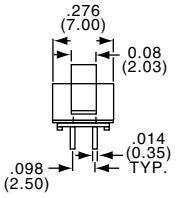
Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-6	MMS22R	DPDT	Silver	Right Angle

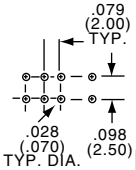
DP3T



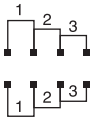
MMS23







Circuit Diagram

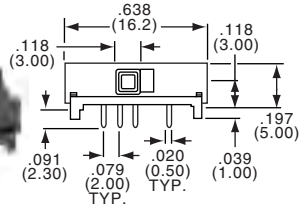


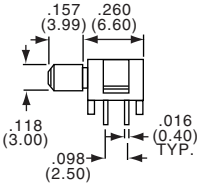
Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-8	MMS23	DP3T	Silver	Upright

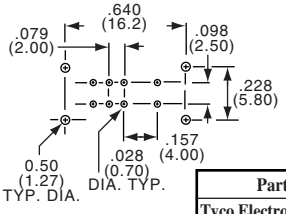
DP3T



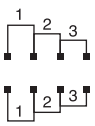
MMS23R







Circuit Diagram



Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-9	MMS23R	DP3T	Silver	Right Angle

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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

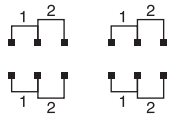
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

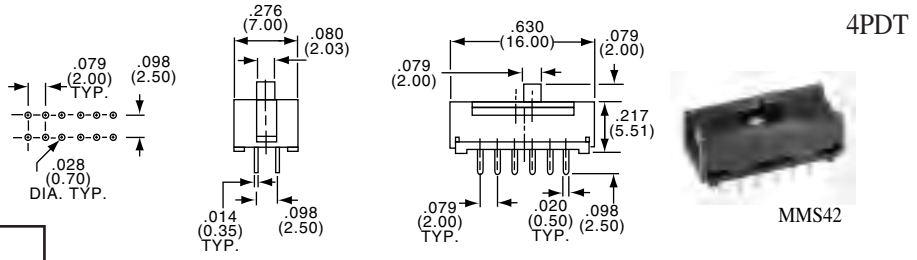
Slide Switches, Micro Size, Instrumentation Grade

SEE PAGE B36 FOR PRODUCT SPECIFICATIONS

4PDT

Circuit Diagram



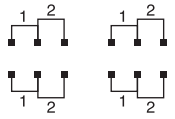


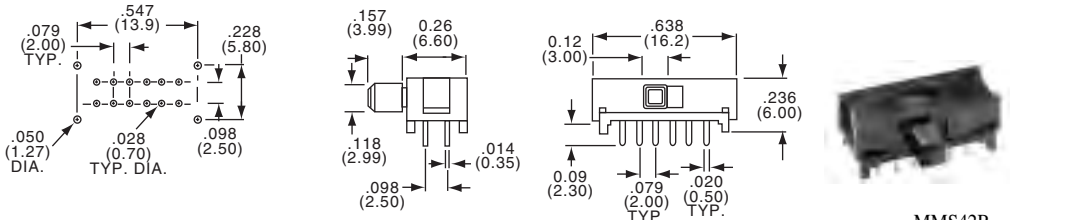
MMS42

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-0	MMS42	4PDT	Silver	Upright

4PDT

Circuit Diagram



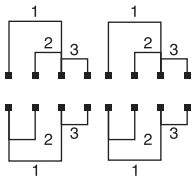


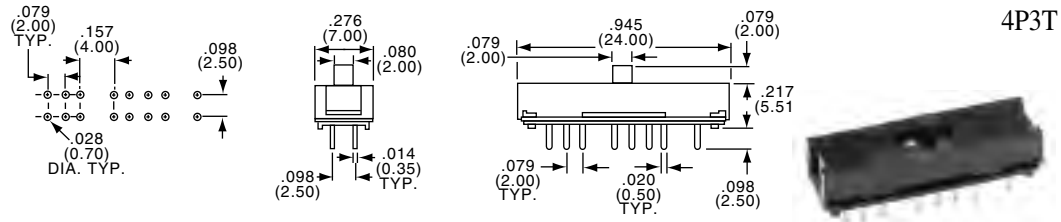
MMS42R

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-1	MMS42R	4PDT	Silver	Right Angle

4P3T

Circuit Diagram



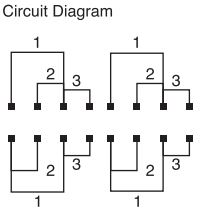


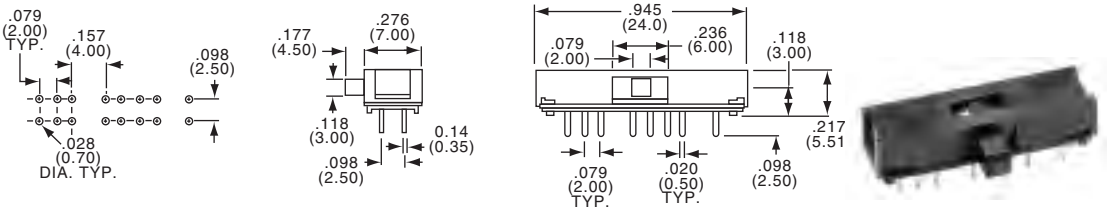
MMS43

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-2	MMS43	4P3T	Silver	Upright

4P3T

Circuit Diagram





MMS43R

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-3	MMS43R	4P3T	Silver	Right Angle

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C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

B

SSB Series

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Gold or silver plate over nickel plate
Case Material .....Steel, tin plate
Actuator Material .....Polyacetal UL94HB
Terminals .....Gold or silver plate over nickel plate
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
Solder Heat Resistance.....+260°C (+500°F) for 5 seconds per MIL-STD-202, Method 210

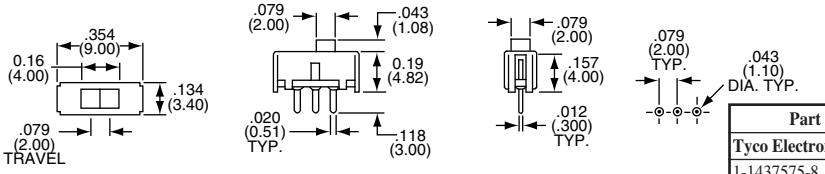
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA @ 20 VDC or peak AC
Silver: 100 mA @ 30 VDC
Initial Contact Resistance.....30 Millohms max.
Contact Timing.....Make before break
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....250 ± 150 Grams
Life Expectancy .....Up to 10,000 Cycles
Travel .....0.079" (2.01)

SPDT



SSB12



Circuit Diagram

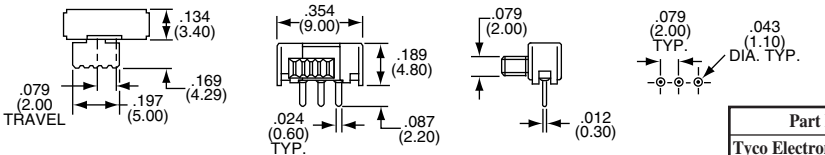


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-8	SSB12	SPDT	Silver	Upright
1-1437575-9	SSB12G	SPDT	Gold	Upright

SPDT



SSB12R



Circuit Diagram

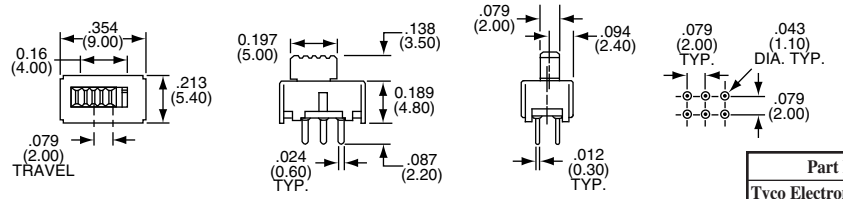


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-0	SSB12R	SPDT	Silver	Right Angle
2-1437575-1	SSB12RG	SPDT	Gold	Right Angle

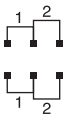
DPDT



SSB22



Circuit Diagram

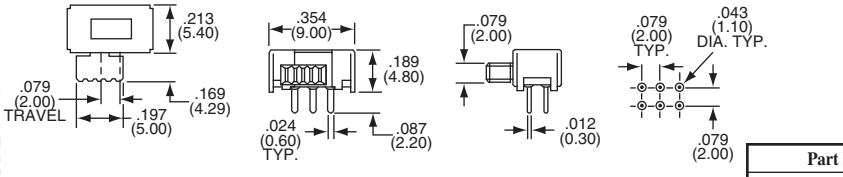


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-2	SSB22	DPDT	Silver	Upright
2-1437575-3	SSB22G	DPDT	Gold	Upright

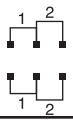
DPDT



SSB22R



Circuit Diagram

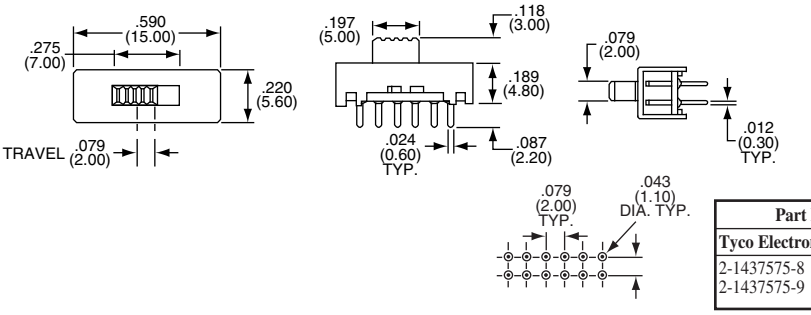


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-4	SSB22R	DPDT	Silver	Right Angle
2-1437575-5	SSB22RG	DPDT	Gold	Right Angle

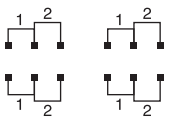
4PDT



SSB42



Circuit Diagram



Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-8	SSB42	4PDT	Silver	Upright
2-1437575-9	SSB42G	4PDT	Gold	Upright

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver or gold plate
Case Material .....Polyester PPS UL94VO
Actuator Material .....Polyamide UL94HB
Cover Material .....Polyamide UL94HB
Terminals .....Silver or gold plate
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....-40°F to +194°F (-40°C +90°C
Solder Heat Resistance.....260°C (+500°F) for 5 seconds per MIL-STD-202, Method 210

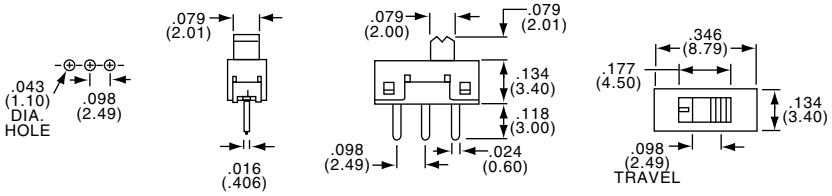
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA max. @ 20 VDC or peak AC
Silver: 100 Milliamps @ 30 VDC
Initial Contact Resistance.....30 Milliohms max.
Contact Timing.....Break-Before-Make
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....250 ± 100 Grams
Actuator Travel.....0.098" (2.49)
Life Expectancy .....Up to 10,000 Cycles

SPDT



SSA12



Circuit Diagram

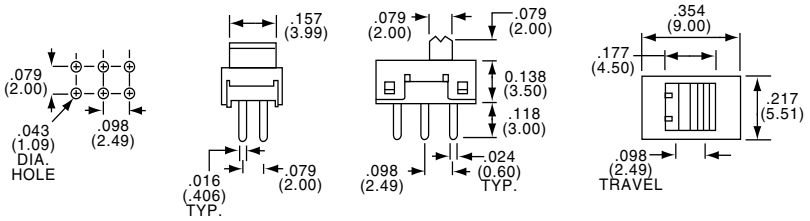


Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
1-1437575-4	SSA12	Silver	Upright
1-1437575-5	SSA12G	Gold	Upright

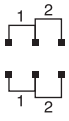
DPDT



SSA22



Circuit Diagram



Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
1-1437575-6	SSA22	Silver	Upright
1-1437575-7	SSA22G	Gold	Upright

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, PC Tails, Wiping Contact, Consumer Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver plate over copper alloy
Case Material .....Steel
Actuator Material .....Polycarbonate
Terminals/Fixed Contacts.....Silver plate over copper alloy
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +140°F (-10°C to +60°C)
Storage Temperature.....14°F to +140°F (-10°C to +60°C)

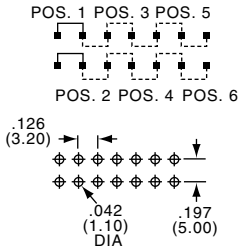
TYPICAL PERFORMANCE CHARACTERISTICS:

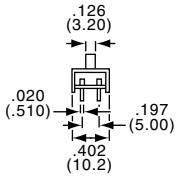
Contact Rating .....250 mA @ 125 VAC, 150 mA @ 12 VDC
Initial Contact Resistance.....30 Milliohms max.
Contact Timing.....Break before make
Insulation Resistance .....500 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....100-300 Grams
Actuator Travel.....0.126" (3.20)
Life Expectancy .....Up to 10,000 Cycles

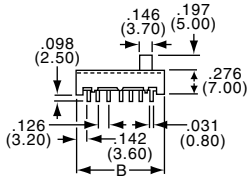
2 TO 6 POSITIONS

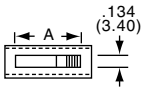

SLS250PC


SLS220PC










SLS240PCA


SLS230PC

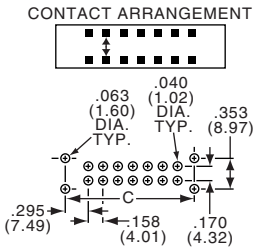
Part Number		Type	Dim.A	Dim.B
Tyco Electronics	Alcoswitch			
3-1437577-9	SLS220PC	2 Positions	.272(6.91)	.535(13.59)
4-1437577-1	SLS230PC	3 Positions	.398(10.11)	.661(16.79)
4-1437577-3	SLS240PCA	4 Positions	.524(13.31)	.787(19.99)
4-1437577-5	SLS250PC	5 Positions	.650(16.51)	.913(23.19)
4-1437577-7	SLS260PC	6 Positions	.776(19.71)	1.039(26.39)

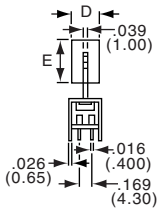
SL Series

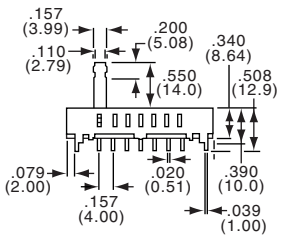
Slide Switches, PC Tails, Lever or Knob Actuator

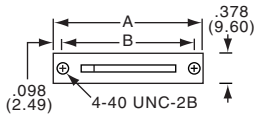
2 TO 10 POSITIONS


SL660
(with KSS KNOB)

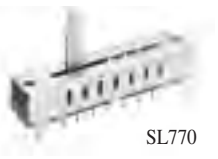









SL550


SL770

Part Number		Type	Dim. A	Dim. B	Dim. C	Knob Only	Description	Dim. D	Dim. E
Tyco Electronics	Alcoswitch								
1437577-9	SL220	2 Positions	.95(24.13)	.750(19.05)	.750(19.05)	KSS10A	Aluminum-Clear Anodize	.270(6.86)	.500(12.70)
1-1437577-0	SL330	3 Positions	1.11(28.19)	.910(23.1)	.910(23.1)	KSS10B	Aluminum-Black Anodize	.270(6.86)	.500(12.70)
1-1437577-1	SL550	5 Positions	1.42(36.07)	1.22(30.99)	1.22(31.1)	KSS20A	Aluminum-Clear Anodize	.305(7.75)	.512(13.00)
1-1437577-2	SL660	6 Positions	1.58(40.13)	1.38(35.05)	1.38(35.1)	KSS20B	Aluminum-Black Anodize	.305(7.75)	.512(13.00)
1-1437577-3	SL770	7 Positions	1.74(44.20)	1.54(39.12)	1.54(39.1)				
1-1437577-4	SL880	8 Positions	1.89(48.01)	1.70(43.18)	1.70(43.1)				
1437577-8	SL1000	10 Positions	2.21(56.13)	2.01(51.05)	2.01(51.5)				

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Panel Mount, Wiping Contact, Consumer Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel plate copper alloy
Case Material .....Steel-zinc plated
Actuator Material .....PBT 30% glass
Terminals/Fixed Contacts.....Silver over nickel plate copper alloy
Terminal Seal .....Epoxy

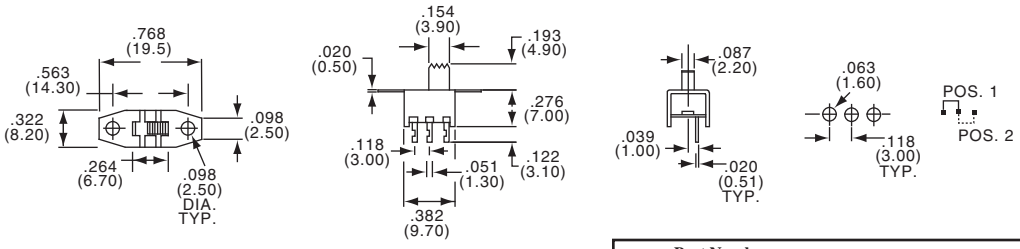
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
Solder Heat Resistance .....+300°C (+572°F) for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....500 mA @ 125 VAC, 200 mA @ 12 VDC
Initial Contact Resistance .....30 Millohms max.
Contact Timing .....Break-Before-Make
Insulation Resistance .....500 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....SLS: 100-300 Grams; SLSA: 220, 300 -500 Grams
Plunger/Actuator Travel: .....0.106" (2.69)
Life Expectancy .....Up to 10,000 Cycles

SPDT

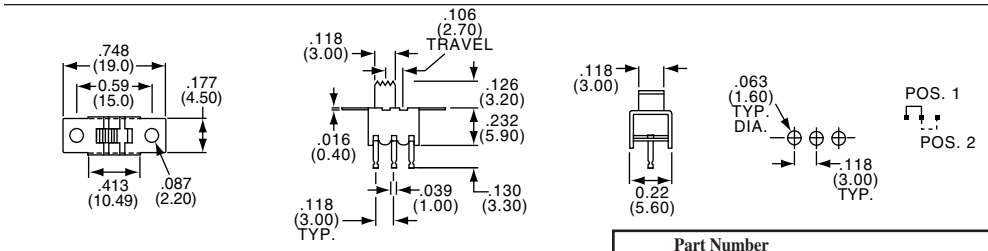




SLS120

Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
1-1437577-5	SLS120	SPDT	Panel	Lug

SPDT

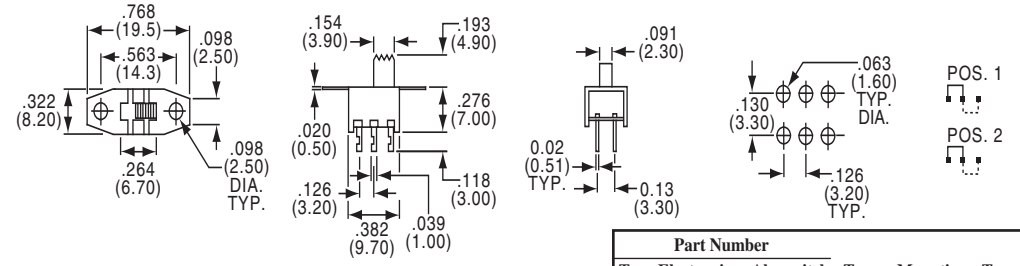




SLSA120

Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-3	SLSA120	SPDT	Panel	Turret

DPDT

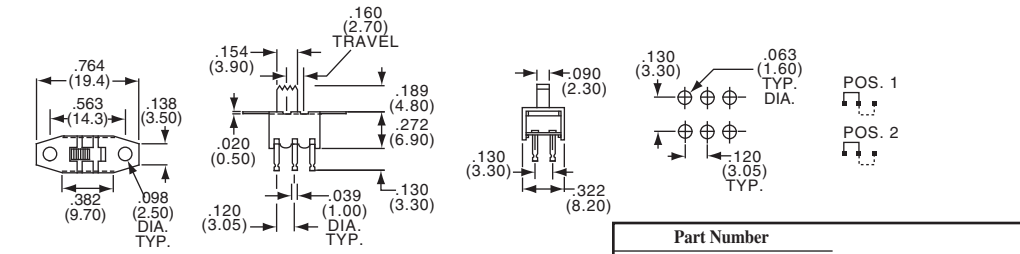




SLS220

Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
3-1437577-7	SLS220	DPDT	Panel	Lug

DPDT





SLSA220

Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-5	SLSA220	DPDT	Panel	Turret

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Japan: 81-44-844-8013
UK: 44-141-810-8967

B

SLS/SLSA Series

Slide Switches, Wiping Contacts, Consumer Grade

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy-silver/nickel
Case Material .....Steel-zinc plate
Actuator Material .....PBT 30% Glass
Terminals/Fixed Contacts.....Copper, alloy, silver/nickel plate
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
Storage Temperature.....-40°F to + 212°F (-40°C to + 100°C)
Solder Heat Resistance .....+300°C (+572°F) for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

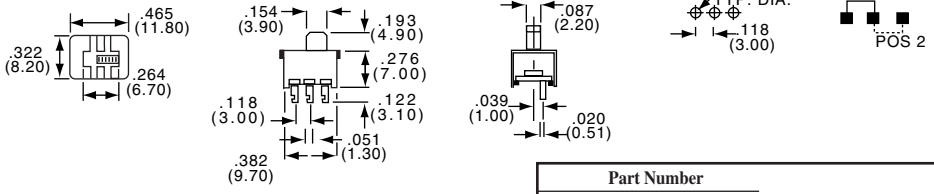
Contact Rating .....500 mA @ 125 VAC, 200 mA @ 12 VDC
Initial Contact Resistance .....30 Millohms max.
Contact Timing .....Break before make
Insulation Resistance .....500 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....350±150 Grams
Plunger/Actuator Travel: 0.106 (2.69)
Life Expectancy .....Up to 10,000 Cycles

SPDT



Lug

SLS1201



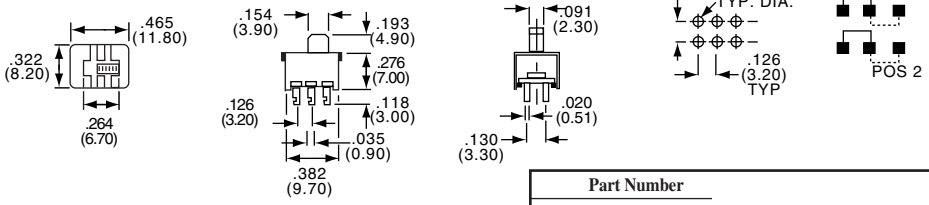
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
1-1437577-6	SLS1201	SPDT	PC	Lug

DPDT



Lug

SLS2201



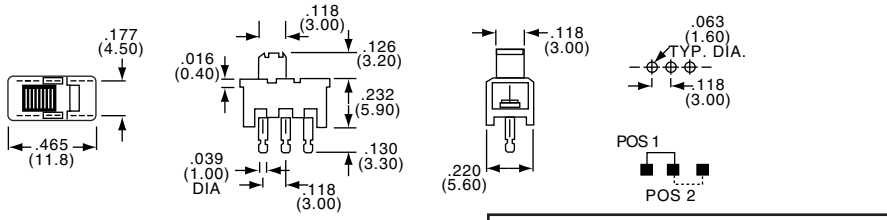
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
3-1437577-8	SLS2201	DPDT	PC	Lug

SPDT



Turret

SLSA1201



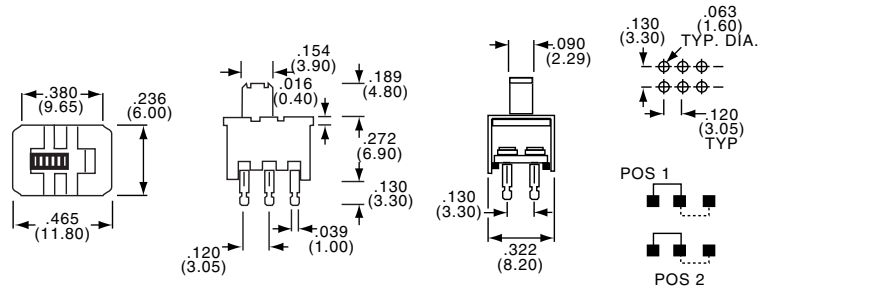
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-4	SLSA1201	SPDT	PC	Turret

DPDT



Turret

SLSA2201



Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-6	SLSA2201	DPDT	PC	Turret

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Miniature, Rolling Contact, Economy Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel plate over copper alloy
Case Material .....Tin plate over steel
Actuator Material .....Polycarbonate
Terminals/Fixed Contacts.....Silver over nickel plate over copper alloy

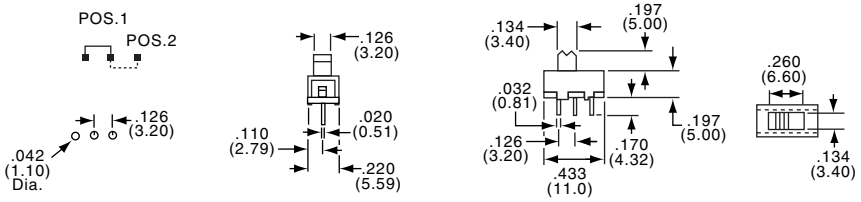
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +185°F (-10°C to +85°C)
Storage Temperature.....14°F to +185°F (-10°C to +85°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....250 mA @ 125 VAC, 150 mA @ 12 VDC
Initial Contact Resistance.....30 Milliohms max.
Contact Timing.....Break before make
Insulation Resistance .....500 Megohms min.
Dielectric Strength .....500 VAC
Actuation Force .....340 ± 57 Grams
Actuator Travel.....0.126" (3.20)
Life Expectancy .....Up to 6,000 to 10,000 Cycles

SPDT

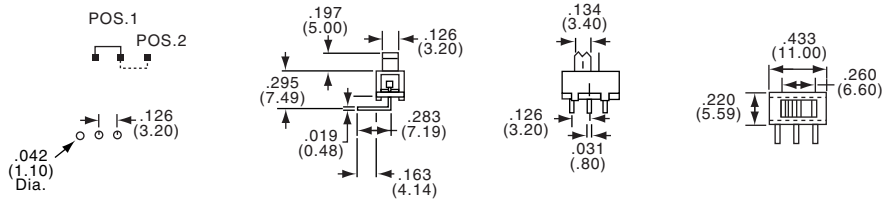




SLS121PC

Part Number		
Tyco Electronics	**Alcoswitch**	**Mounting Style**
1-1437577-9	SLS121PC	Printed Circuit

SPDT

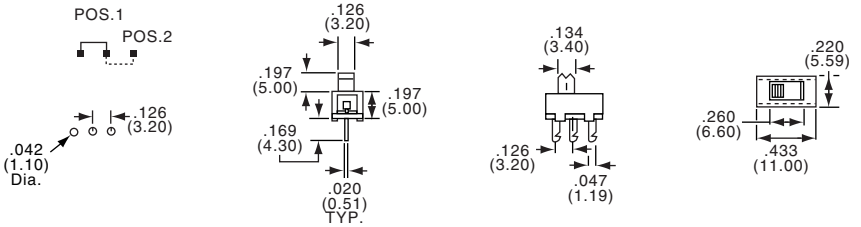




SLS121RA

Part Number		
Tyco Electronics	**Alcoswitch**	**Mounting Style**
2-1437577-2	SLS121RA	Right Angle PC

SPDT

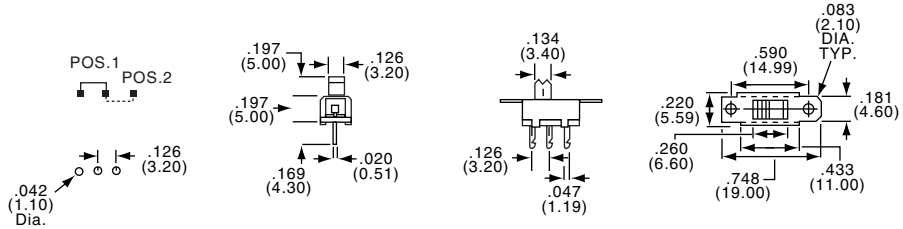




SLS1211

Part Number		
Tyco Electronics	**Alcoswitch**	**Mounting Style**
1-1437577-8	SLS1211	Printed Circuit

SPDT





SLS121

Part Number		
Tyco Electronics	**Alcoswitch**	**Mounting Style**
1-1437577-7	SLS121	Panel Mounted

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Issued 9-04

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

B

SLS Series

Slide Switches, Miniature, Rolling Contact, Economy Grade

MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel flash over copper alloy
Case Material .....Steel
Actuator Material .....Polycarbonate
Terminals/Fixed Contacts.....Silver over nickel over copper alloy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +185°F (-10°C to +85°C)
Storage Temperature.....+14°F to +185°F (-10°C to +85°C)
Solder Heat Resistance .....+260°C for 5 seconds

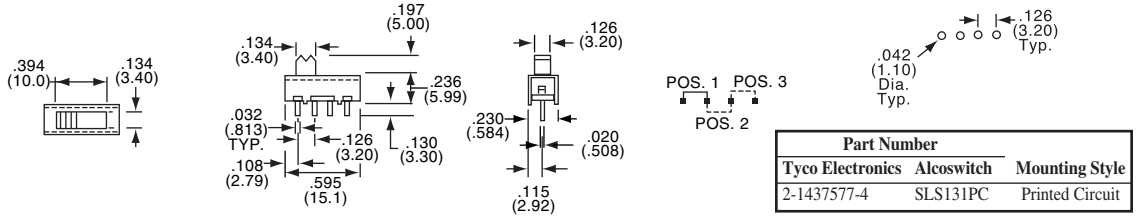
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....250mA @ 125 VAC
150mA @ 12VDC
Initial Contact Resistance .....20 Millohms max.
Contact Timing .....Break-Before-Make
Insulation Resistance .....>50 Megohms.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....340 ± 57 Grams
Plunger/Actuator Travel: .....0.260" to 0.512" (6.60-13.00)
Life Expectancy .....Up to 10,000 Cycles at no load

SP3T



SLS131PC

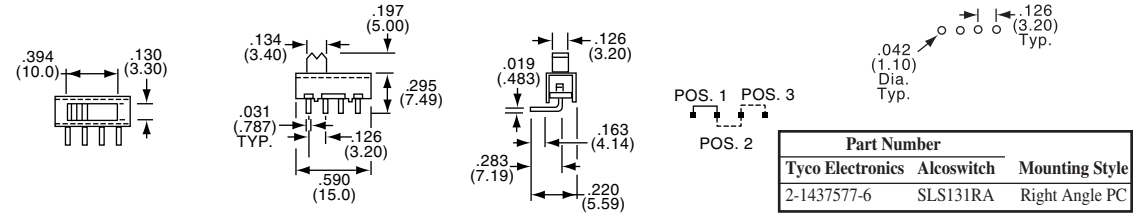


Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
2-1437577-4	SLS131PC	Printed Circuit

SP3T



SLS131RA

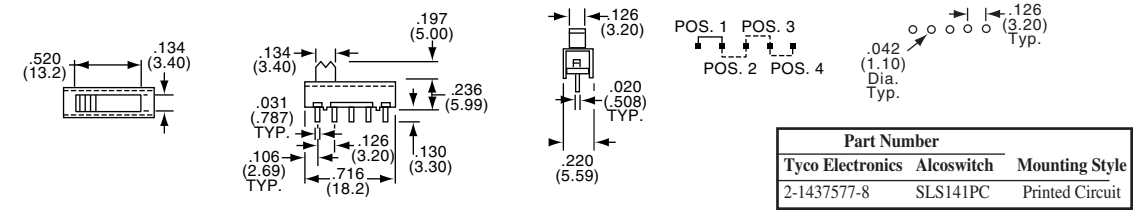


Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
2-1437577-6	SLS131RA	Right Angle PC

SP4T



SLS141PC

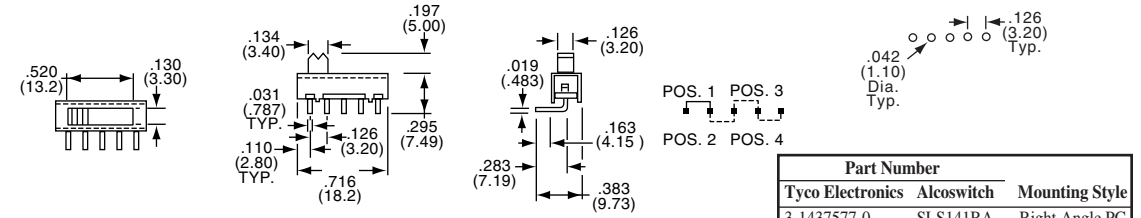


Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
2-1437577-8	SLS141PC	Printed Circuit

SP4T



SLS141RA

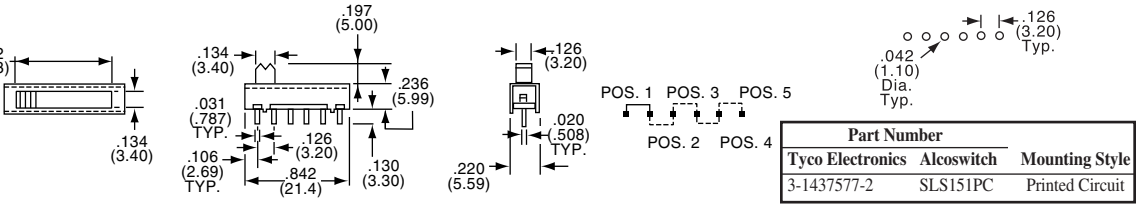


Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
3-1437577-0	SLS141RA	Right Angle PC

SP5T



SLS151PC

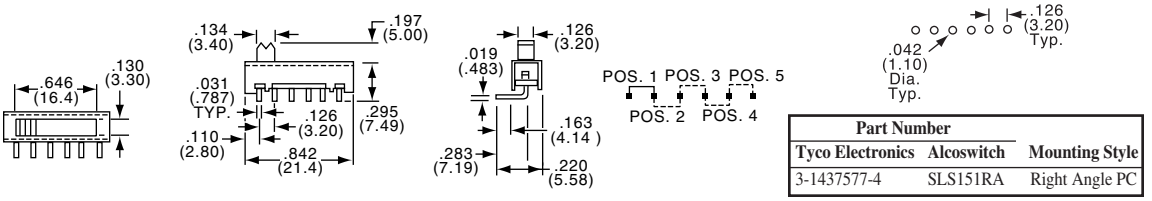


Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
3-1437577-2	SLS151PC	Printed Circuit

SP5T



SLS151RA



Part Number		
Tyco Electronics	Alcoswitch	Mounting Style
3-1437577-4	SLS151RA	Right Angle PC

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Slide Switches, Baton-Toggle, Multi Pole

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad over nickel plated copper alloy
Case Material .....Steel, tin plate
Actuator Material .....ABS plastic/Aluminum cap
Terminals/Fixed Contacts.....Silver over nickel plated copper alloy
Terminal Seal .....Epoxy

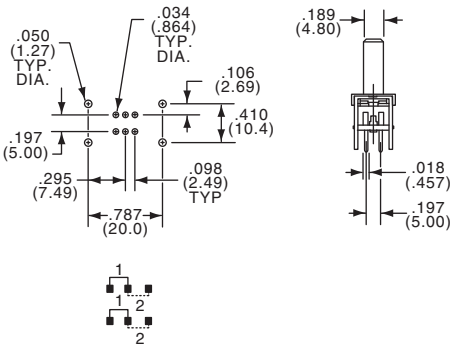
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+5°F to +131°F (-15°C to +55°C)
Storage Temperature.....-4ºF to +140º F (-20°C to +60°C)
Solder Heat Resistance .....Hand: 300°C for 3 seconds
Wave: 250°C for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....300 mA @ 125 VAC, 200 mA @ 12VDC
Initial Contact Resistance .....20 Milliohms max.
Contact Timing .....See table below
Insulation Resistance .....500 Megohms min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....450 ± 250 Grams
Plunger/Actuator Travel .....30°
Life Expectancy .....Up to 10,000 Cycles

DPDT



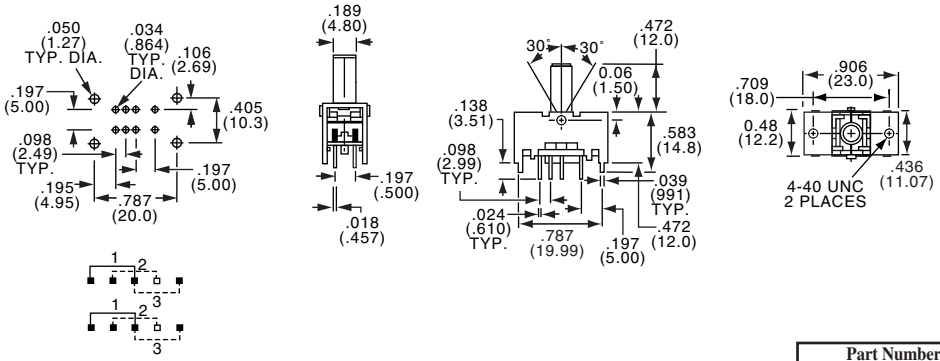


CST022NK

Part Number					
Tyco Electronics	Alcoswitch	↘	⊥	↙	Contact Timing
1437576-2	CST022NK	None	On	On	Non Shorting - Break-Before-Make

(On) indicates momentary position.

DP3T





CST023NK

Part Number					
Tyco Electronics	Alcoswitch	↘	⊥	↙	Contact Timing
1437576-4	CST023NK	On	On	On	Non Shorting

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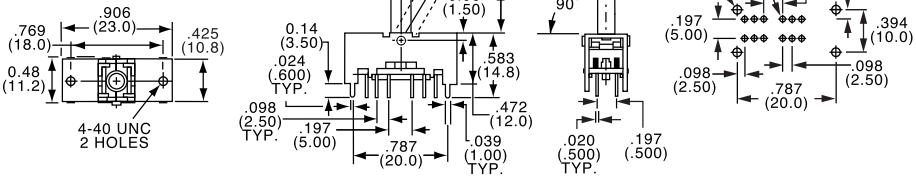
Slide Switches, Baton-Toggle, Multi Pole

SEE PAGE B45 FOR PRODUCT SPECIFICATIONS

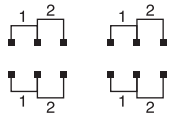
4PDT



CST042NK



Circuit Diagram

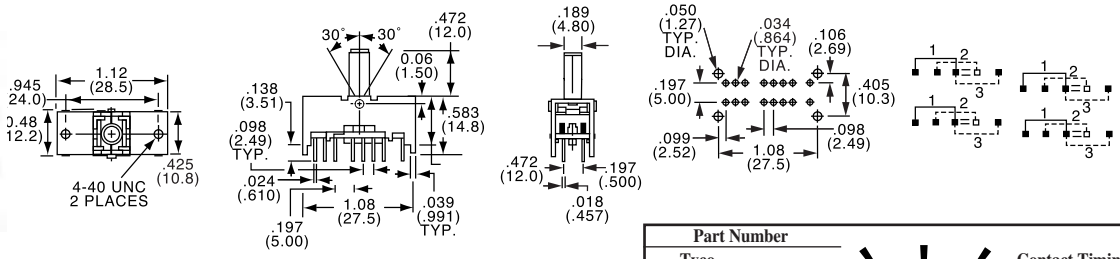


Part Number					
Tyco Electronics	Alcoswitch	↘	⊥	↙	Contact Timing
1437576-5	CST042NK	None	On	On	Non Shorting

4P3T



CST043NK

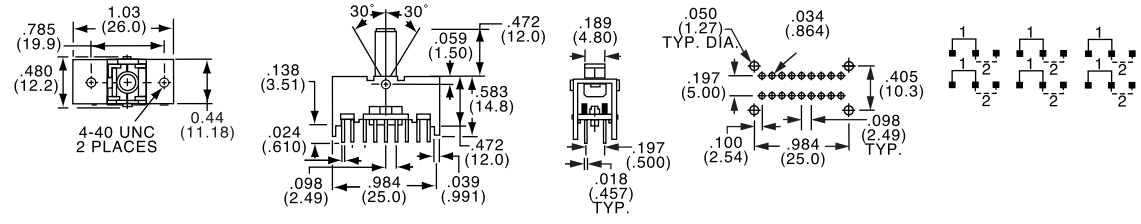


Part Number					
Tyco Electronics	Alcoswitch	↘	⊥	↙	Contact Timing
1437576-6	CST043NK	On	On	On	Non Shorting

6PDT



CST062NK



Part Number					
Tyco Electronics	Alcoswitch	↘	⊥	↙	Contact Timing
1437576-7	CST062NK	None	On	On	Non Shorting

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UK: 44-141-810-8967

Slide Switches, Miniature, Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

Contacts……BeCu, copper alloy, 1 micron silver plate
Case Material……40% G.F. PPS, UL94V-0
Frame……Stainless steel, silver plated
Actuator Material ……Nylon, UL94HB polyamide
Terminals ……Brass, copper alloy, 1 micron silver plate
Terminal Seal……Epoxy

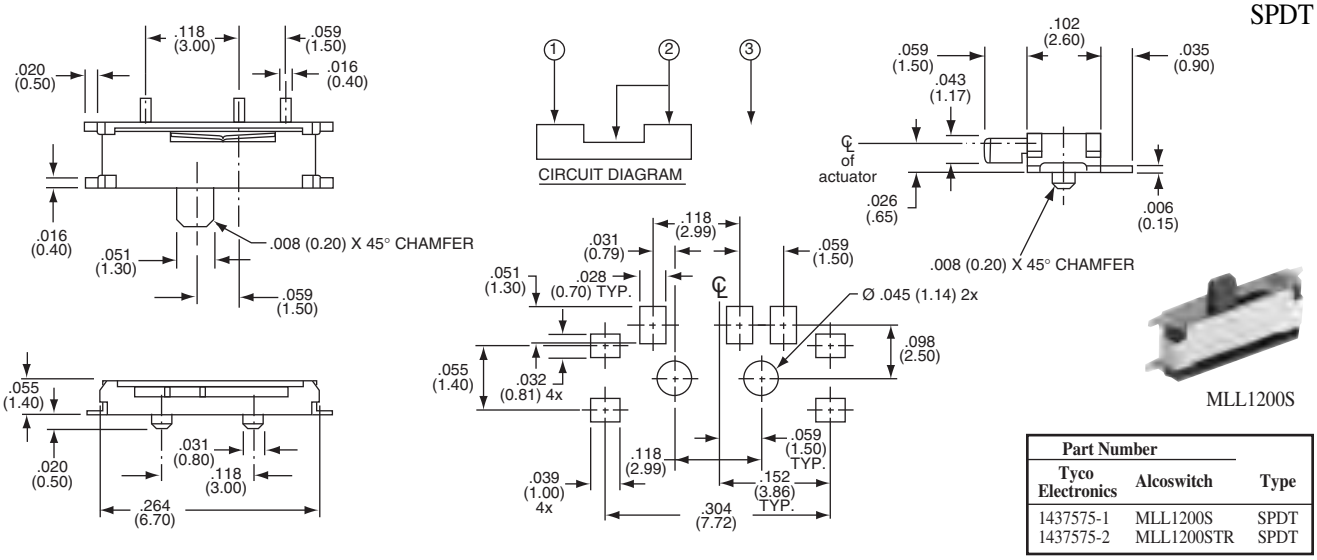
ENVIRONMENTAL SPECIFICATIONS:

Humidity ……MIL-STD-202, Method 103, Condition B
Moisture Resistance ……MIL-STD-202, Method 106
Thermal Shock ……MIL-STD-202, Method 107, Condition A
Solder Heat Resistance …230°C per EIA 364-56 Level 2

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.3 Amp, 4 VDC
Initial Contact Resistance .....70 Millohms
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....100 VAC min.
Actuation Force .....175 ±100 Grams
Life Expectancy .....Up to 10,000 Cycles
Travel 0.059 (1.5mm)

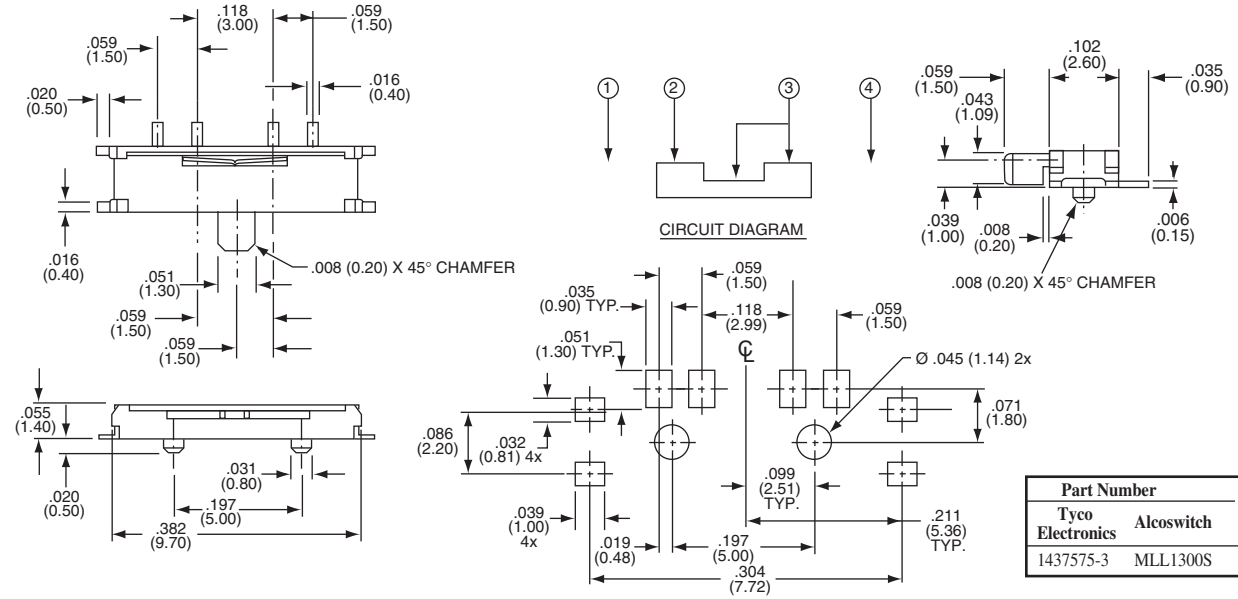
SPDT



MLL1200S

Part Number		
Tyco Electronics	Alcoswitch	Type
1437575-1	MLL1200S	SPDT
1437575-2	MLL1200STR	SPDT

SP3T



Part Number		
Tyco Electronics	Alcoswitch	Type
1437575-3	MLL1300S	SP3T

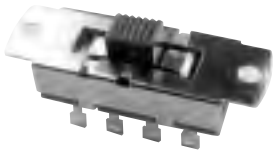
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UK: 44-141-810-8967

13 Amp & 6 Amp, Panel Mount



ENVIRONMENTAL SEPCIFICATIONS:

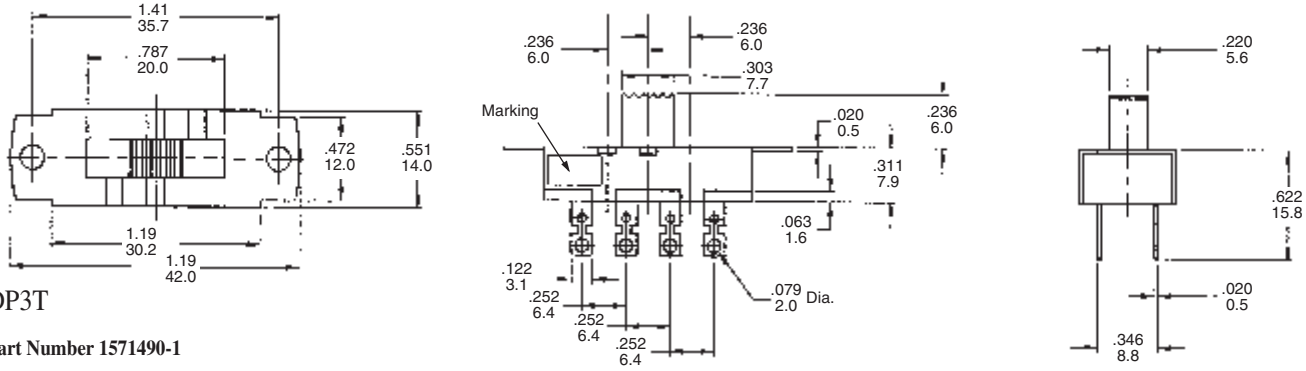
Operating Temperature ..-4°F to 149°F (-20° to +65°C)
Storage Temperature .....-13°F to 158°F (-25° to +70°C)
Solder Heat Resistance ..Per EIA-364-56A, Procedure 3, Condition B
Solderability .....Per EIA-364-52, Class 2, Category 1, 95% minimum coverage

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver plate
Board .....Phenolic, UL94V0
Frame .....Steel, nickel plate
Actuator Material .....Nylon, UL94V-2
Terminals .....Copper alloy, silver plate
Terminal Seal .....Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....13 Amp, 125 VAC or 6.5 Amp, 250 VAC
Initial Contact Resistance.....50 Milliohms max.
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1200 VAC
Actuation Force .....100-900 Grams
Life Expectancy .....Up to 5000 Cycles
Travel 0.236 (6.0mm)



DP3T

Part Number 1571490-1

MATERIAL SPECIFICATIONS:

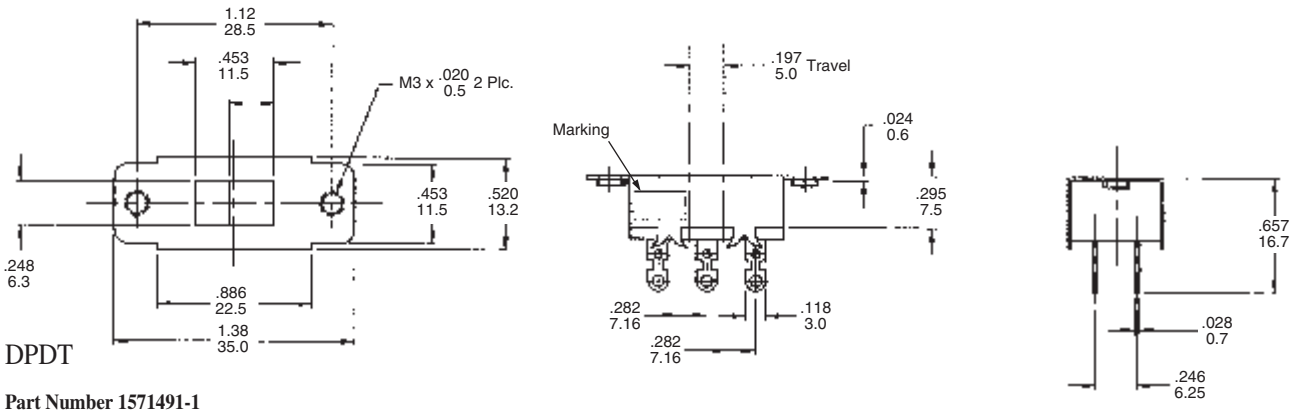
Contacts .....Copper alloy, silver plate
Board .....Phenolic, UL94HB
Frame .....Steel, nickel plate
Actuator Material .....Polycarbonate, UL94V-2
Terminals .....Copper alloy, silver plate
Terminal Seal .....Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....6 Amp, 125 VAC or 3 Amp, 250 VAC
Initial Contact Resistance.....50 Milliohms max.
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1800 VAC
Actuation Force .....500-900 Grams
Life Expectancy .....5000 Cycles
Travel 0.197 (5.0mm)

ENVIRONMENTAL SEPCIFICATIONS:

Operating Temperature ..-4°F to 149°F (-20° to +65°C)
Storage Temperature .....-13°F to 158°F (-25° to +70°C)
Solder Heat Resistance ..Per EIA-364-56A, Procedure 3, Condition B
Solderability .....Per EIA-364-52, Class 2, Category 1, 95% minimum coverage



DPDT

Part Number 1571491-1

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Issued 9-04

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MT Series - Page C43

Toggle Switches

C

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C

Toggle Switches

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Toggle Switches, Poles, Throws & Functions Selection Guide

SERIES/CURRENT RATING/PAGE NUMBER

ATE Series .....0.4VA .....Page C19
A/AE Series 0.4VA ..5 Amps.....Page C22/35
TT Series .....0.4VA 3 Amps .....Page C8
TST Series .....0.4VA .....Page C5
MT Series .....6 Amps .....Page C43

	SPDT	DPDT	3PDT	4PDT
On - None - On 2 Position	ATE Gemini Tiny/TST Green	ATE Gemini Tiny Green	Green	Tiny Green ATE
On - Off - On 3 Position	ATE Gemini Tiny/TST Green	ATE Gemini Tiny Green	Green	Tiny Green
On - None - (On) 2 Position	ATE Gemini Tiny/TST Green	Gemini Tiny Green	Green	Tiny
(On) - Off - (On) 3 Position	ATE Gemini Green TST	ATE Gemini Green	Green	
On - Off - (On) 3 Position	Gemini Green	Gemini Green	Green	
On - On - On 3 Position		Gemini Green		Green
(On) - On - (On) 3 Positions		Gemini Green		
On - On - (On) 3 Position		Gemini Green		
On - Off 2 Position	Tiny	Tiny		

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Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

FEATURES:

- Rating 0.4VA max. at 20VAC/DC
- High temperature plastics - Liquid crystal polymer (LCP)
- Specifically designed for thru-hole and surface mount applications - Tin lead plated terminals
- Washable process sealed construction - Internal actuator "O" Ring
- Ultrasonic welded case

MATERIAL SPECIFICATIONS:

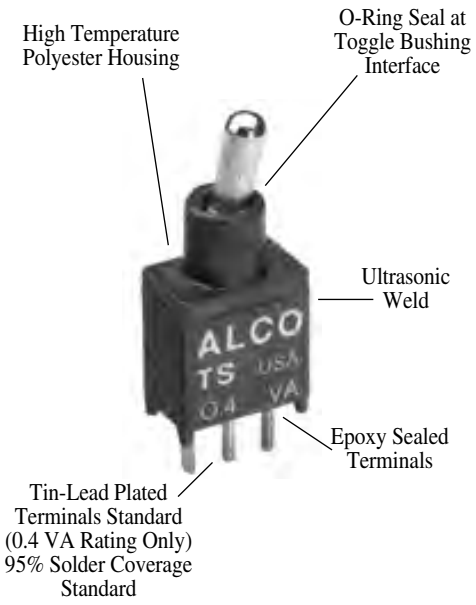
Contacts .....Copper alloy with gold over nickel plate
Case Material .....LCP
Actuator Material .....Nickel plated brass
Terminals .....Copper alloy with gold over nickel plating inside, tin plating outside
Terminal Seal .....Epoxy
Support Bracket .....Tin plated steel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VAC/DC
Initial Contact Resistance .....20 Milliohms max.
Contact Timing .....Break-before-make
Insulation Resistance .....1,000 Megohms 500 VDC min.
Dielectric Strength .....1,000 Volt RMS @ sea level
Actuator Travel.....22° for E and D function
18° for F, G function
Life Expectancy .....D Function: Up to 80,000 cycles
E Function: Up to 60,000 cycles
F, G Function: Up to 30,000 cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-22°F to +185°F (-30°C to +85°C)
Storage Temperature.....-67°F to +185°F (-55°C to +85°C)



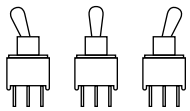
FUNCTION CHART

The following functions available in single pole.

None - indicates no mechanical position.

Off - indicates a mechanical position with no electrical connection.

(On) - indicates momentary connection.



D	2 Positions	On	None	On
E	3 Positions	On	Off	On
F	2 Positions	On	None	(On)
G	3 Positions	(On)	Off	(On)
Terminals Connected		1-2	-	2-3

PART NUMBERING MATRIX

Model	No. of Poles	Contact Rating	Function	Contact Plating	Terminations	Actuator	Bushing (Plain)
TST	1	1		G			D

Function:
- D on none on
- E on off on
- F on none(on)
- G (on) off (on)

Terminations:
- PC P.C.
- RA Right Angle
- VRA Vertical Right Angle
- SPC SurfaceMount
- SRA Surface Mount R.A.
- SRAB SurfaceMount R.A. Butt

Actuator:
- 1 .206"
- 2 .250"
- 4 .400"

APPLICATION NOTE:
For sealed pushbutton switches, see page D3 - D5

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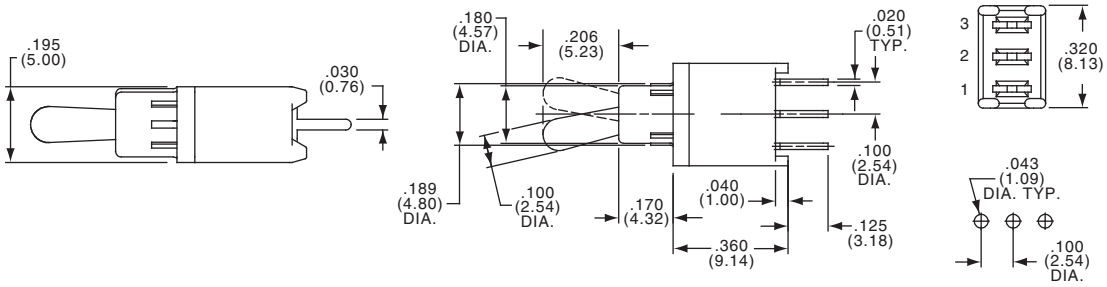
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C

TST Series

Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

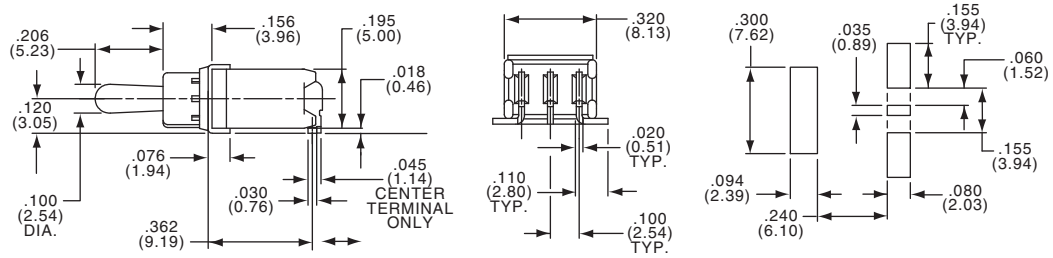
PC MOUNT **PC**





TST11DGPC1D

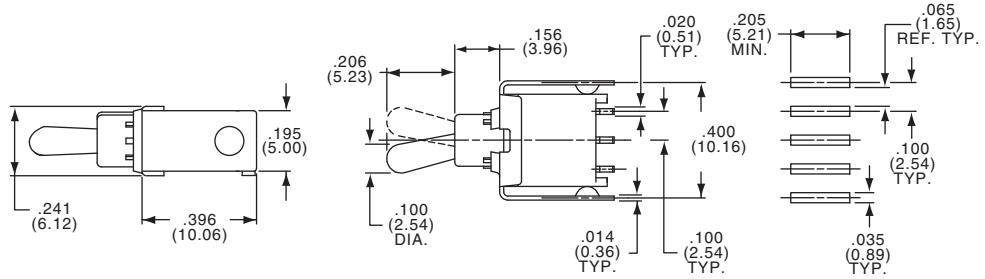
SURFACE MOUNT RIGHT ANGLE "L" BEND **SRA**





TST11DGSRA1D

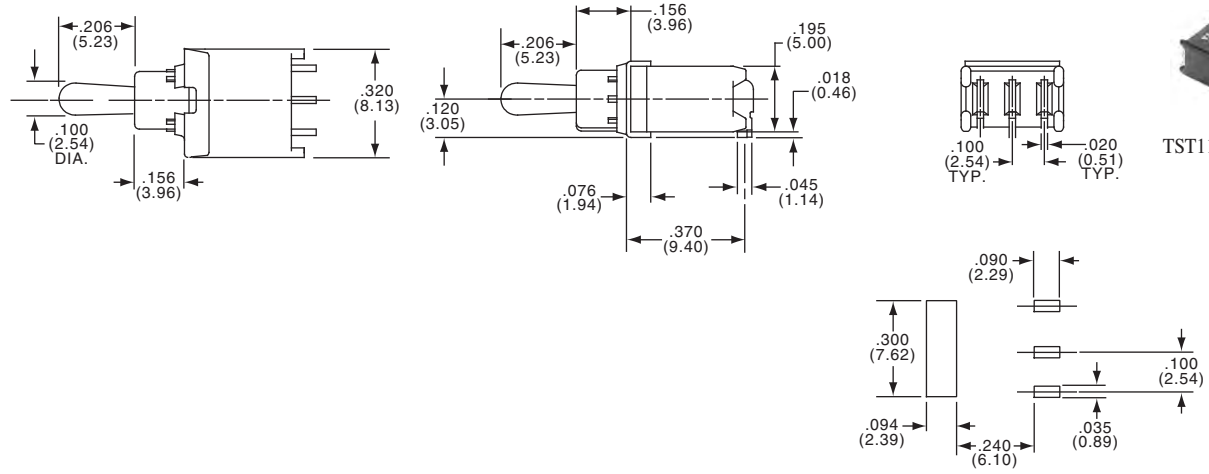
SURFACE MOUNT **SPC**





TST11DGSPC1D

SURFACE MOUNT RIGHT ANGLE BUTT **SRAB**





TST11DGSRAB1D

Catalog 1308390
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C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

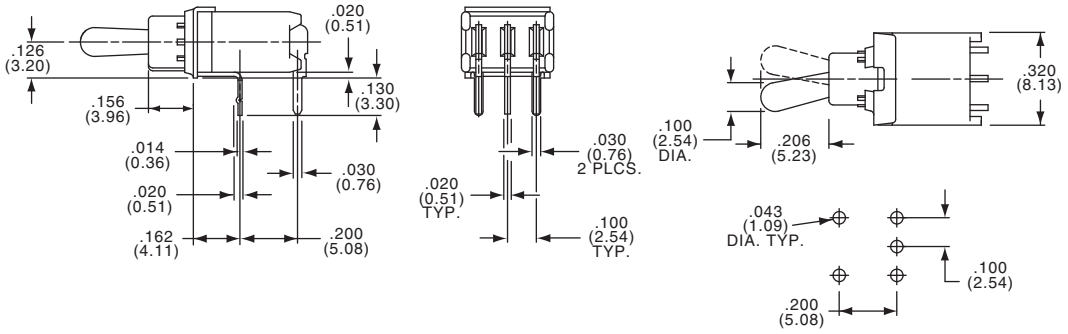
Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

RA

Right Angle



TST11DGRA1D

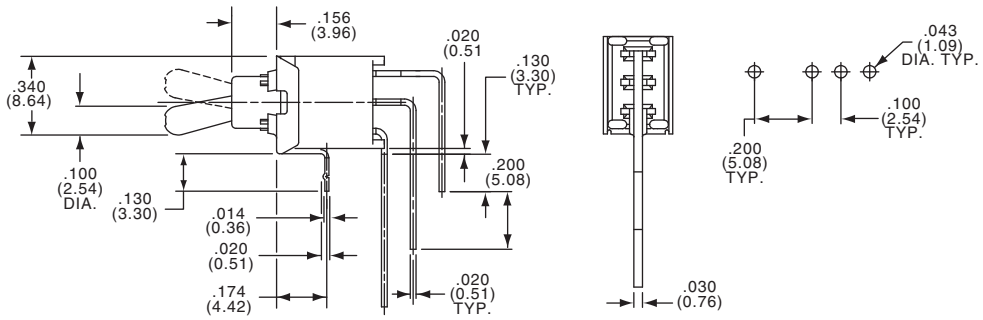


VRA

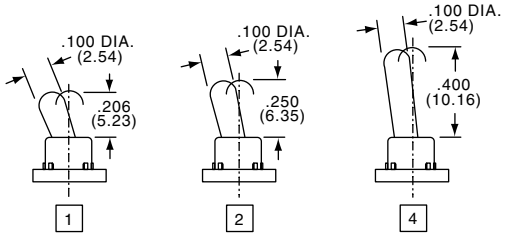
Vertical Right Angle



TST11DGVRA1D



ACTUATORS



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UK: 44-141-810-8967

Toggle Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts……Gold over nickel or silver plate
Case Material……Thermoplastic 94V-0
Terminals/Fixed Contacts…….Tin lead plate
Terminal Seal……...Epoxy on single pole, optional on double pole
Process Seal……..ES version only (see page C16 - C17)

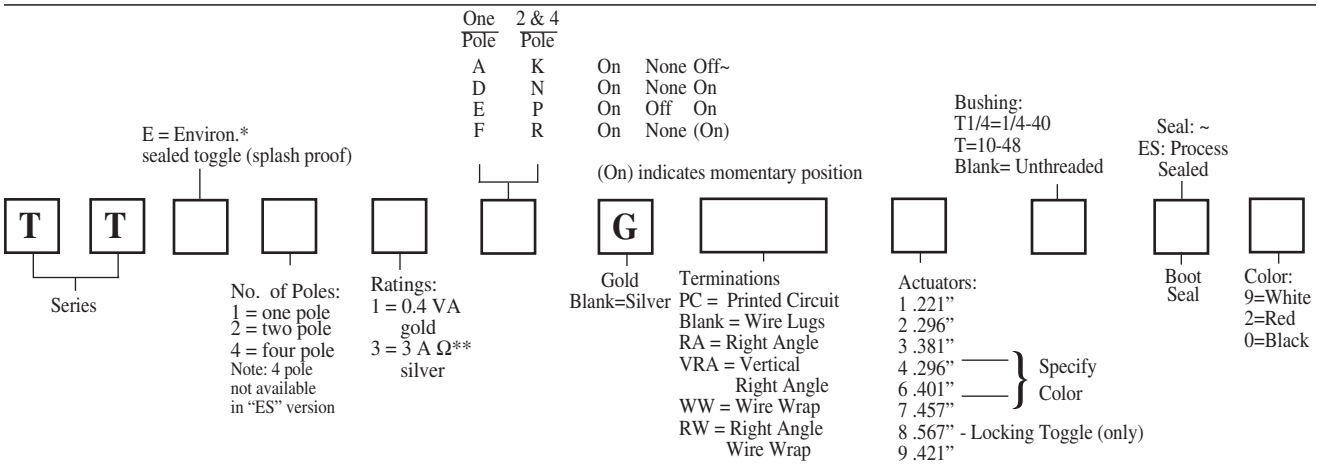
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature……-22°F to +185°F (-30°C to +85°C)
Storage Temperature……-67°F to +185°F (-55°C to +85°C)
Solder Heat Resistance……See page M3-4
U.L. (File E-46765)……Silver only

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating……..	Gold: 0.4 VA max. @ 20 VDC or peak AC Silver (2 pos.): 3A @ 125 VAC or 28 VDC Silver (3 pos.): 2 A @ 125 VAC or 28 VDC
Initial Contact Resistance……	20 Milliohms max.
Contact Timing……..	Break before Make
Insulation Resistance……	1,000 Megohms 500 VDC min.
Dielectric Strength……	1,000 Volts RMS @ sea level
Plunger/Actuator Travel……	26°
High Torque Bushing Shoulder	Yes
Life Expectancy……	See chart below

Note: Hardware included with switch



Tiny toggle switch life expectancy chart			
One Pole	0.4VA	80,000 (2 Pos.)	60,000 (3 Pos.)
	3 Amp	20,000 (2 Pos.)	10,000 (3 Pos.)
Two Pole	0.4VA	80,000 (2 Pos.)	60,000 (3 Pos.)
	3 Amp	20,000 (2 Pos.)	10,000 (3 Pos.)
Four Pole	0.4VA	80,000 (2 Pos.)	60,000 (3 Pos.)
	3 Amp	20,000 (2 Pos.)	10,000 (3 Pos.)

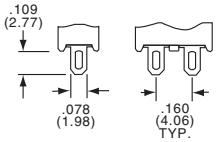
APPLICATION NOTE:
For surface mount termination, use the "TST" series on page C5.
For 3 pole refer to the MT Series on page C43

Actuator Dimensions shown with	
1,2,3,4,6	10-48 bushing
7,8,9	1/4-40 bushing

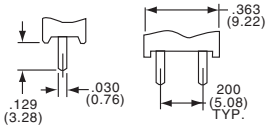
* Not available on 7 actuator or with VRA.
** Not available in RA.
Ω Available in PC & WL only.
~ Available in WL & PC only.

TERMINATIONS

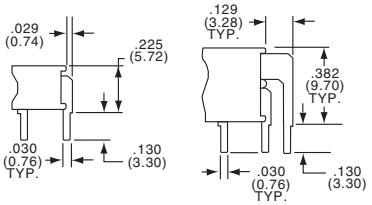
WIRE LUG



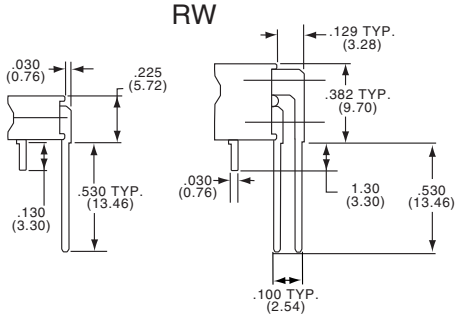
PC



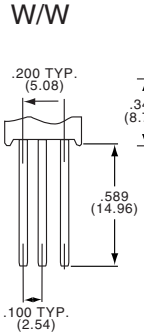
RA



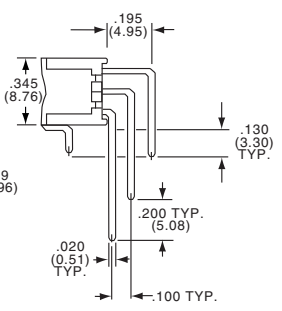
RW



W/W



VRA



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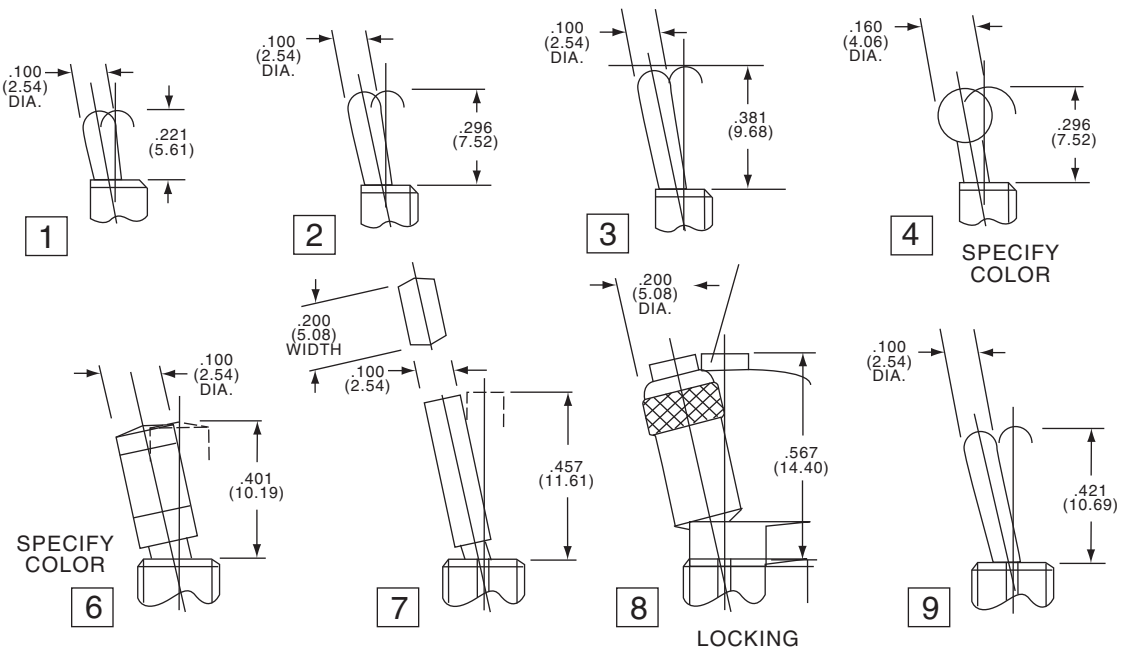
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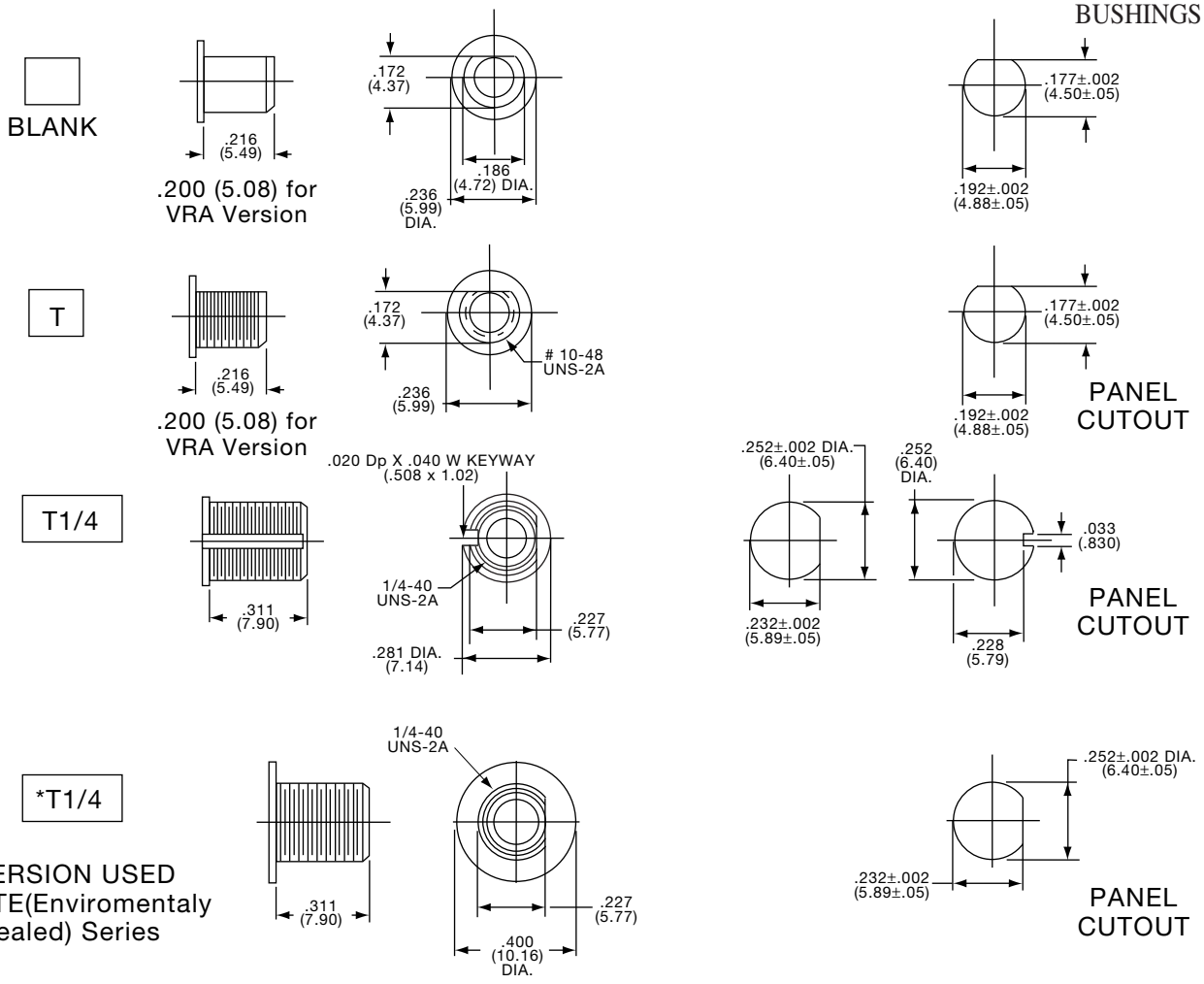
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, Tiny, Actuator and Bushing Options

Toggle Cap Series C-11* Available



BUSHINGS



*VERSION USED ON TTE(Enviromentaly Sealed) Series

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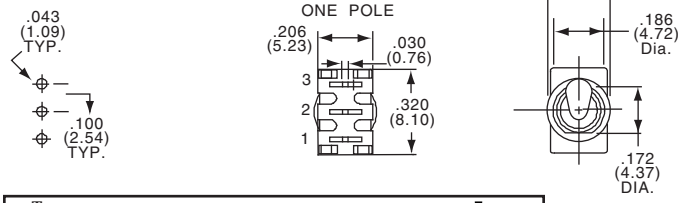
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

C

TT Series

Toggle Switches, Tiny, Vertical, PC Mount

1 POLE



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
2-1437561-3	TT11AGPC1	SPST	A	On	None	Off
2-1437561-6	TT11DGPC1	SPDT	D	On	None	On
5-1437561-1	TT11EGPC1	SPDT	E	On	Off	On

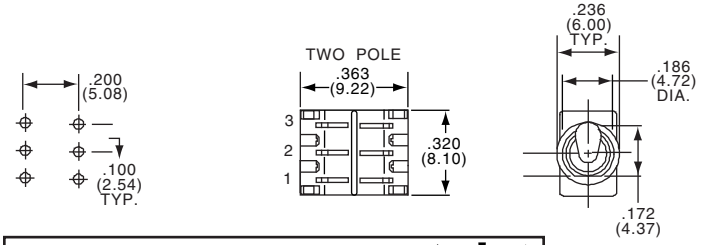
Note: No center terminal on "A" switches

For Terminal Connections refer to Code Chart (see page M5-6)



TT11DGPC1

2 POLE



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
9-1437561-9	TT21KGPC1	DPST	K	On	None	Off
1437562-3	TT21NGPC1	DPDT	N	On	None	On
3-1437562-4	TT21PGPC1	DPDT	P	On	Off	On

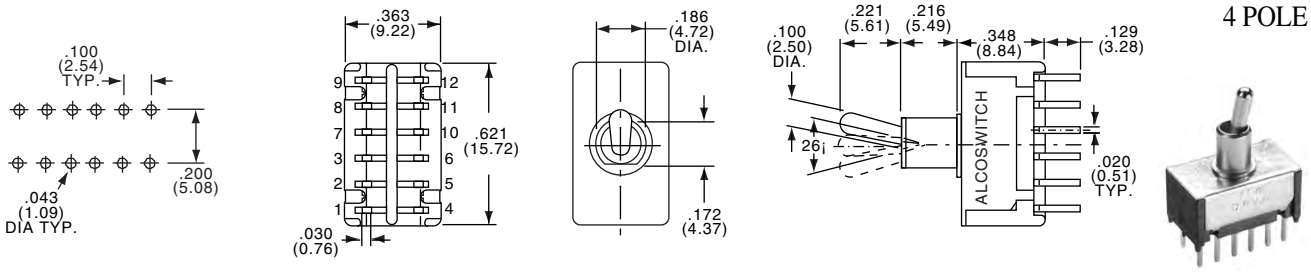
Note: No center terminal on "K" switches

For Terminal Connections refer to Code Chart (see page M5-6)



TT21NGPC1

4 POLE



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
6-1437562-6	TT41NGPC1	4PDT	N	On	None	On

TT41NGPC1

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, Tiny, Vertical and Vertical Right Angle, PC Mount

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

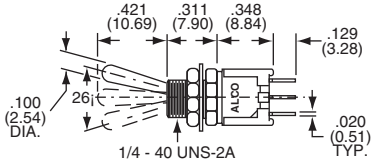
1 & 2 POLE

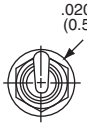


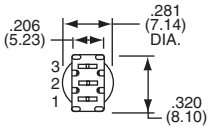
TT21NGPC9T1/4

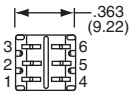


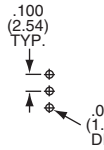
TT11DGPC9T14

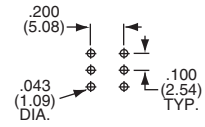












4 POLE



TT41NGPC9T1/4

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
2-1437561-5	TT11AGPC9T1/4	SPST	A	On None Off
3-1437561-5	TT11DGPC9T1/4	SPDT	D	On None On
5-1437561-9	TT11EGPC9T1/4	SPDT	E	On Off On
7-1437561-3	TT11FGPC9T1/4	SPDT	F	On None On
1437562-1	TT21KGPC9T1/4	DPST	K	On None Off

Note: No center terminal on "A" or "K" switches.

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
1-1437562-1	TT21NGPC9T1/4	DPDT	N	On None On
3-1437562-8	TT21PGPC9T1/4	DPDT	P	On Off On
4-1437562-6	TT21RGPC9T1/4	DPDT	R	On None (On)
6-1437562-8	TT41NGPC9T1/4	4PDT	N	On None On
7-1437562-5	TT41PGPC9T1/4	4PDT	P	On Off On

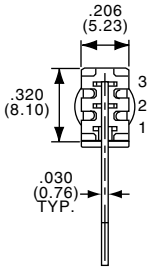
(On) indicates momentary position.

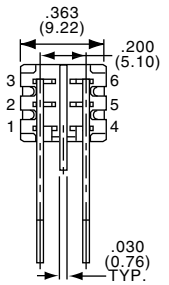
Note: Hardware Included

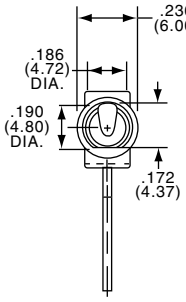
1 & 2 POLE

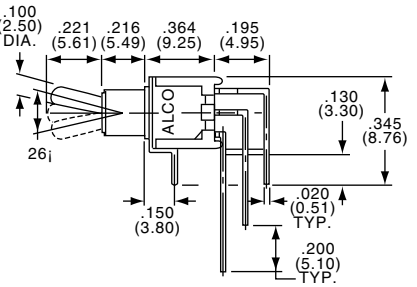


TT11DGVRA1
Vertical Actuation



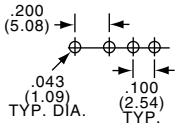


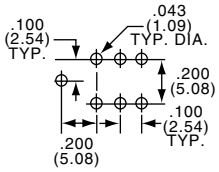






TT21NGVRA1
Vertical Actuation



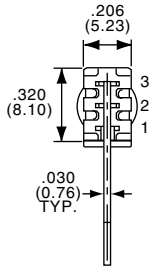


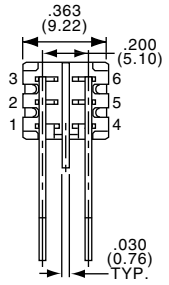
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
4-1437561-8	TT11DGVRA1	SPDT	D	On None On
6-1437561-9	TT11EGVRA1	SPDT	E	On Off On
2-1437562-2	TT21NGVRA1	DPDT	N	On None On
4-1437562-3	TT21PGVRA1	DPDT	P	On Off On

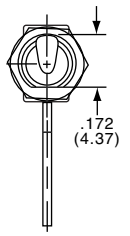
1 & 2 POLE

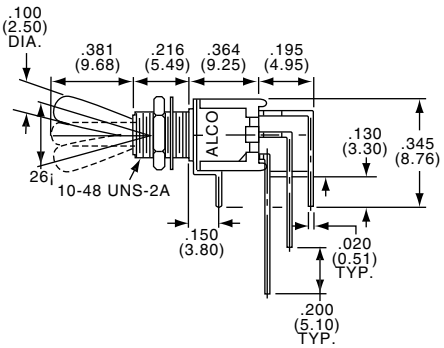


TT11DGVRA3T
Vertical Actuation



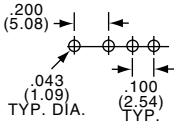


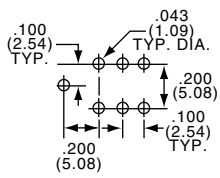






TT21NGVRA3T
Vertical Actuation





Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
4-1437561-9	TT11DGVRA3T	SPDT	D	On None On
7-1437561-0	TT11EGVRA3T	SPDT	E	On Off On
2-1437562-3	TT21NGVRA3T	DPDT	N	On None On

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C

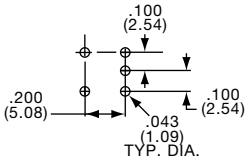
TT Series

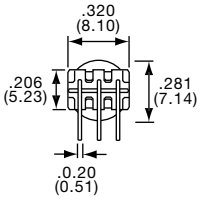
Toggle Switches, Tiny, Right Angle, Flat Actuator

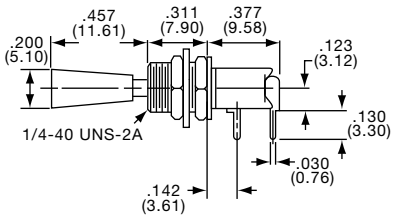
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

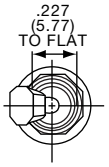
*** Refer to Page C8 for Other Options ***

1 & 2 POLE FLAT



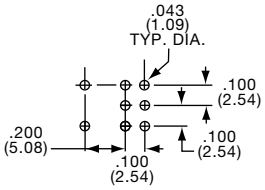


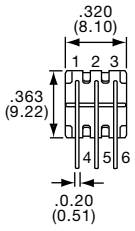


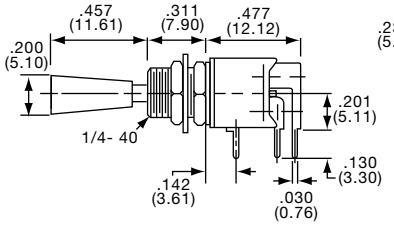


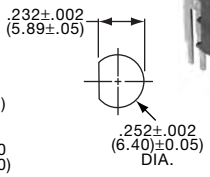


TT11DGRA7T1/4
Horizontal Actuation









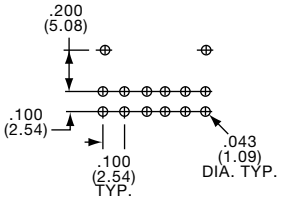


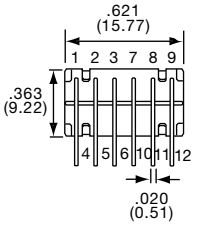
TT21NGRA7T1/4
Horizontal Actuation

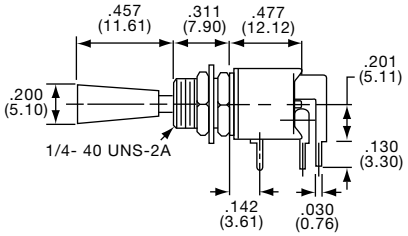
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
4-1437561-5	TT11DGRA7T1/4	SPDT	D	On	None	On
6-1437561-7	TT11EGRA7T1/4	SPDT	E	On	Off	On
7-1437561-4	TT11FGRA7T1/4	SPDT	F	On	None	(On)
1-1437562-9	TT21NGRA7T1/4	DPDT	N	On	None	On
4-1437562-0	TT21PGRA7T1/4	DPDT	P	On	Off	On
		(On) indicates momentary position				

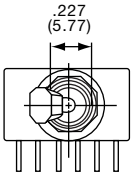
Pinned for Anti-Rotation

4 POLE FLAT



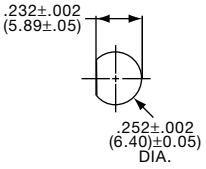








TT41NGRA7T14
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
7-1437562-2	TT41NGRA7T1/4	4PDT	N	On	None	On

Pinned for Anti-Rotation

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UK: 44-141-810-8967

Toggle Switches, Tiny, Wire Wrap Termination

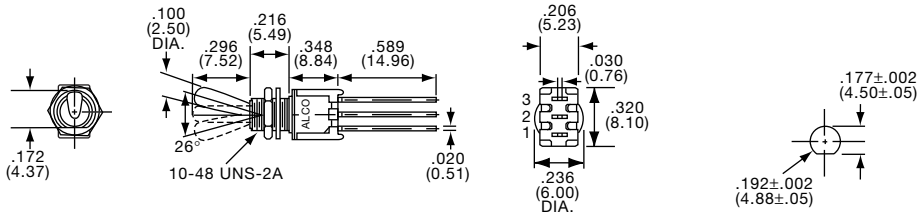
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

1 POLE



TT11DGWW2T

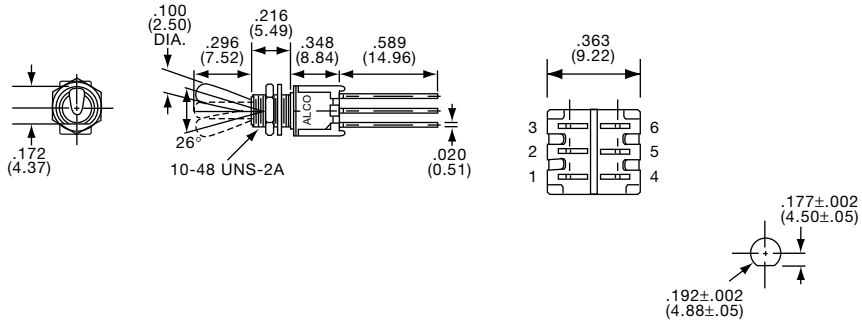


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
5-1437561-0	TT11DGWW2T	SPDT	D	On None On
7-1437561-1	TT11EGWW2T	SPDT	E	On Off On

2 POLE



TT21NGWW2T

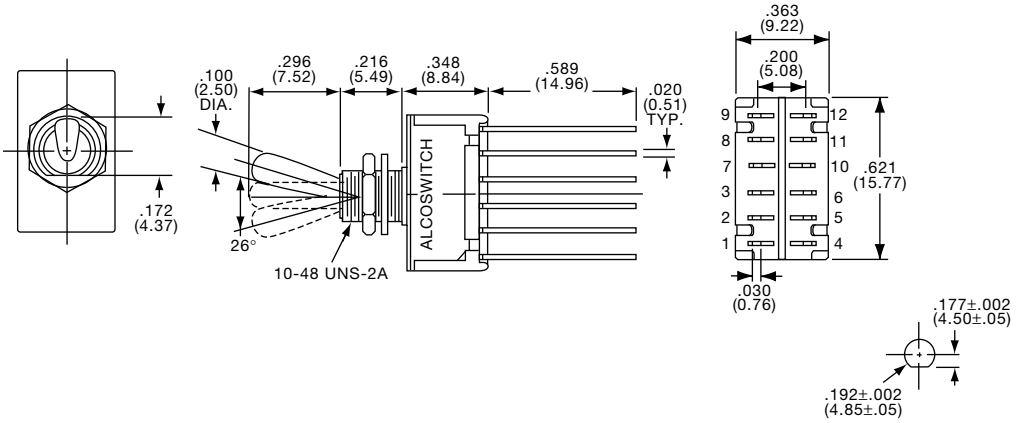


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
2-1437562-4	TT21NGWW2T	DPDT	N	On None On
4-1437562-4	TT21PGWW2T	DPDT	P	On Off On

4 POLE



TT41NGWW2T



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
7-1437562-4	TT41NGWW2T	4PDT	N	On None On

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Japan: 81-44-844-8013
UK: 44-141-810-8967

C

TT Series

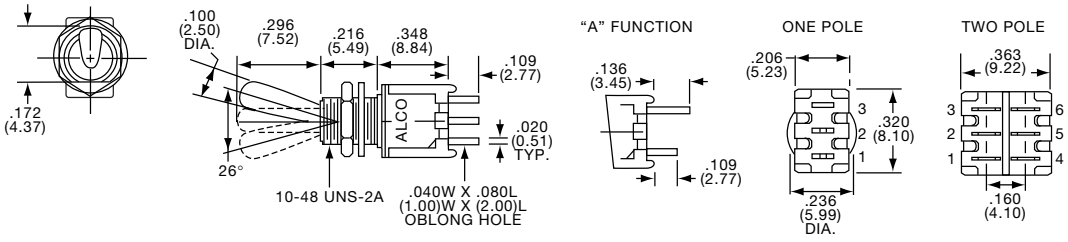
Toggle Switches, Tiny, Wire Lug, Round or Flat Actuators

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

NOTICE: Wire lug terminals accept two No. 20 AWG wires.

For terminal connections refer to Code Chart on page M5-6

1 & 2 POLE

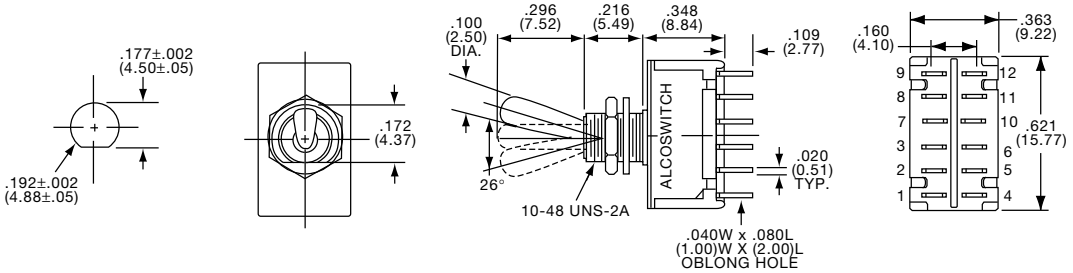




TT13D2T



TT23N2T



4 POLE



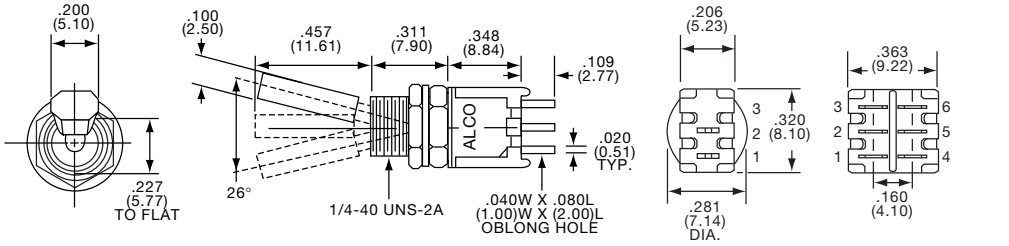
TT43N2T

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
7-1437561-8	TT13A2T	SPST	A	On	None	Off
8-1437561-5	TT13D2T	SPDT	D	On	None	On
9-1437561-5	TT13E2T	SPDT	E	On	Off	On
4-1437562-7	TT23K2T	DPST	K	On	None	Off

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
5-1437562-1	TT23N2T	DPDT	N	On	None	On
5-1437562-7	TT23P2T	DPDT	P	On	Off	On
7-1437562-6	TT43N2T	4PDT	N	On	None	On

Note: No center terminal "A" or "K" action switches.

1 & 2 POLE

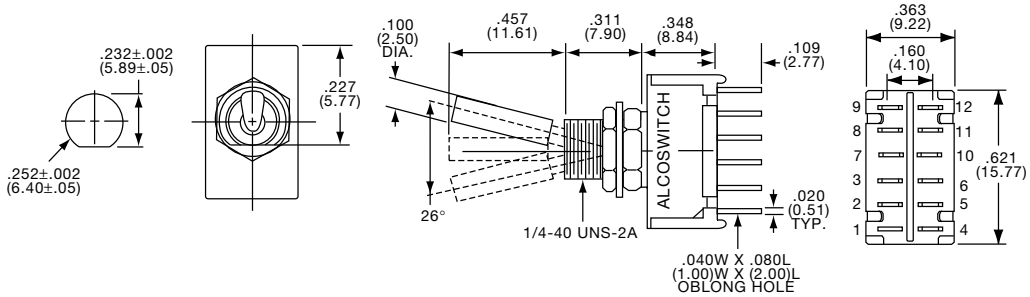




TT13D7T1/4



TT23N7T1/4



4 POLE



TT43N7T1/4

Pinned for Anti-Rotation

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
9-1437561-1	TT13D7T1/4	SPDT	D	On	None	On
9-1437561-7	TT13E7T1/4	SPDT	E	On	Off	On
5-1437562-5	TT23N7T1/4	DPST	N	On	None	On

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘	⊥	↙
6-1437562-0	TT23P7T1/4	DPDT	P	On	Off	On
7-1437562-8	TT43N7T1/4	4PDT	N	On	None	On
	TT43P7T1/4	4PDT	P	On	Off	On

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UK: 44-141-810-8967

Toggle Switches, Tiny, Wire Lug, Long Actuators

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

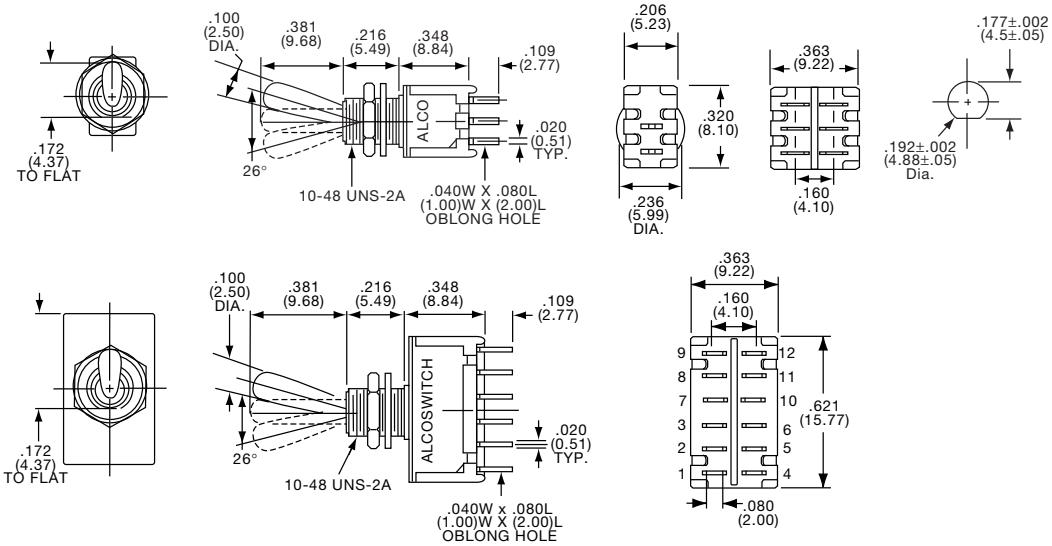
1 & 2 POLE



TT13D3T



TT23N3T



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
8-1437561-0	TT13A3T	SPST	A	On	None	Off	5-1437562-8	TT23P3T	DPDT	P	On	Off	On
8-1437561-8	TT13D3T	SPDT	D	On	None	On	7-1437562-7	TT43N3T	4PDT	N	On	None	On
9-1437561-6	TT13E3T	SPDT	E	On	Off	On	8-1437562-0	TT43P3T	4PDT	P	On	Off	On
4-1437562-8	TT23K3T	DPST	K	On	None	Off							
5-1437562-2	TT23N3T	DPDT	N	On	None	On							

Note: No center terminal on "A" or "K" action switches.

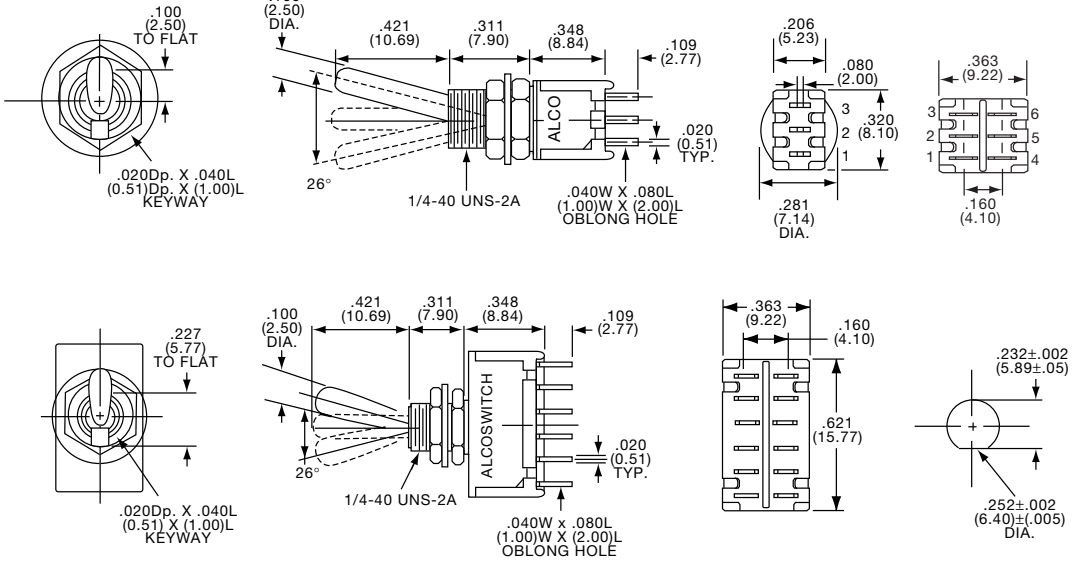
1 & 2 POLE



TT13A9T1/4



TT23N9T1/4



4 POLE



TT43N9T1/4

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
8-1437561-4	TT13A9T1/4	SPST	A	On	None	Off	6-1437562-2	TT23P9T1/4	DPDT	P	On	Off	On
9-1437561-2	TT13D9T1/4	SPDT	D	On	None	On	7-1437562-9	TT43N9T1/4	4PDT	N	On	None	On
9-1437561-8	TT13E9T1/4	SPDT	E	On	Off	On	8-1437562-1	TT43P9T1/4	4PDT	P	On	Off	On
4-1437562-9	TT23K9T1/4	DPST	K	On	None	Off							
5-1437562-6	TT23N9T1/4	DPDT	N	On	None	On							

Note: No center terminal on "A" or "K" action switches.

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, Process Sealed, Vertical

MATERIAL SPECIFICATIONS:

Contacts .....Gold over nickel
Inner Case Material .....High temperature polyester
Outer Case Material .....Polyamide
Terminals/Fixed Contacts .....Tin lead plate
Terminal Seal .....Epoxy
Process Seal .....Disposable boot, epoxied double case

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....-22°F to +185°F (-30°C to +85°C)
Storage Temperature .....-67°F to +185°F (-55°C to +85°C)
Solder Heat Resistance.....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

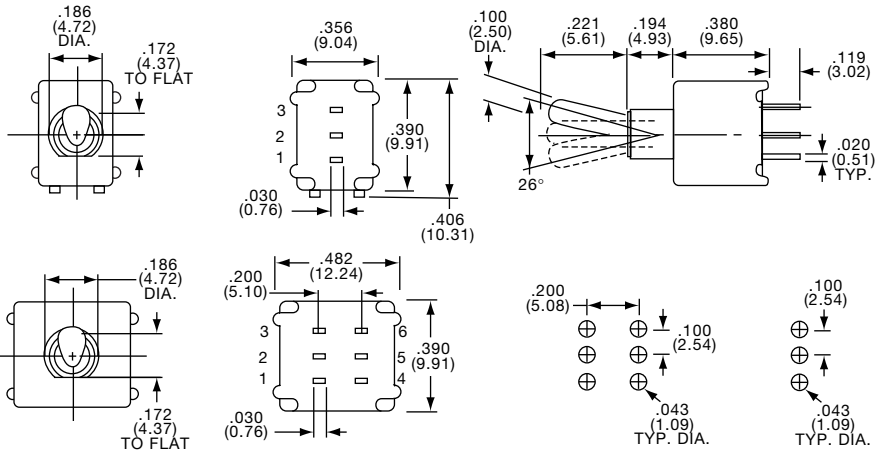
Contact Rating .....0.4VA Max. @ 20 VDC or peak AC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms min. 500 VDC
Dielectric Strength .....1,000 Volts RMS @ sea level
Plunger/Actuator Travel.....26°
Life Expectancy .....See page C8

APPLICATION NOTE: Each switch is provided with a disposable boot used only during cleaning operation.

*** Refer to Page C8 for Other Options ***

Note: Hardware included with switch

1 & 2 POLE UNTHREADED BUSHING

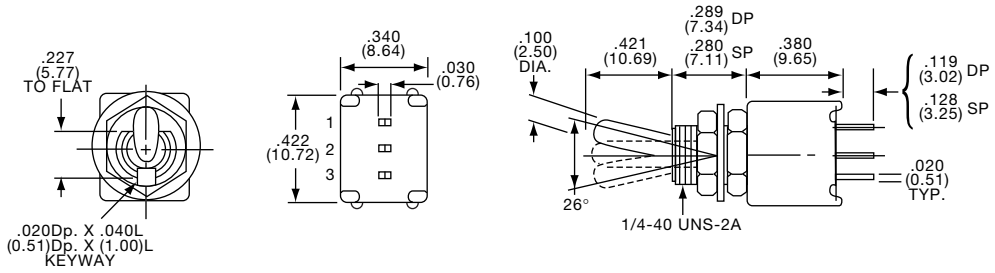




TT11DGPC1ES

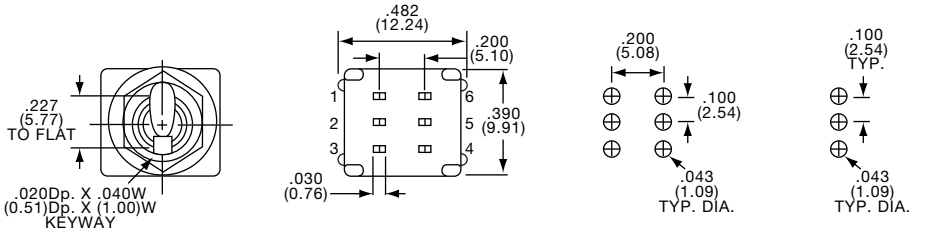
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
2-1437561-4	TT11AGPC1ES	SPST	A	On None Off	1437562-4	TT21NGPC1ES	DPDT	N	On None On
2-1437561-7	TT11DGPC1ES	SPDT	D	On None On					
	Note: No center terminal "A".								

1 & 2 POLE THREADED BUSHING



TT11DGPC9T1/4ES





TT21NGPC9T1/4ES



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
	TT11AGPC9T1/4ES	SPST	A	On None Off	1-1437562-2	TT21NGPC9T1/4ES	DPDT	N	On None On
6-1437830-2	TT11DGPC9T1/4ES	SPDT	D	On None On		TT21PGPC9T1/4ES	DPDT	P	On Off On
	TT11EGPC9T1/4ES	SPDT	E	On Off (On)	(On) indicates momentary position.				
	TT21KGPC9T1/4ES	DPST	K	On None Off					
	Note: No center terminal "A" or "K" action switches.								

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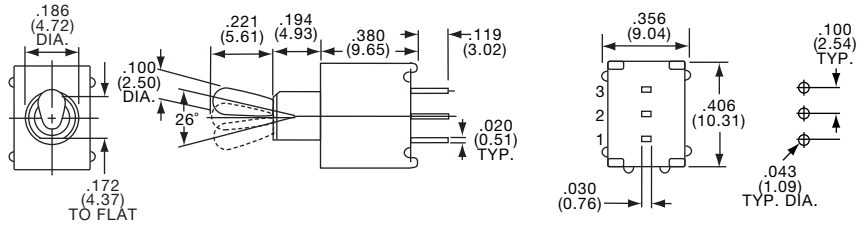
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, Tiny, Enviromental and Process Sealed

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

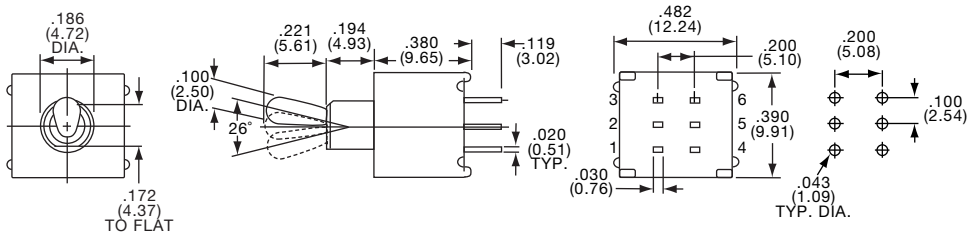
For terminal connections refer to Code Chart on page M5-6

1 POLE-PC VERTICAL MOUNT



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
8-1437562-6	TTE11DGPC1ES	SPDT	D	On None On
	TTE11EGPC1ES	SPDT	E	On Off On

2 POLE-PC VERTICAL MOUNT

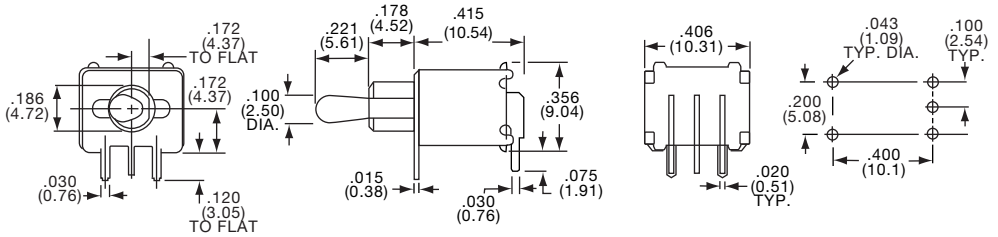


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
1437563-1	TTE21NGPC1ES	DPDT	N	On None On
	TTE21PGPC1ES	DPDT	P	On Off On

1 POLE-PC RIGHT ANGLE



TTE11DGRA1ES
Horizontal Actuation

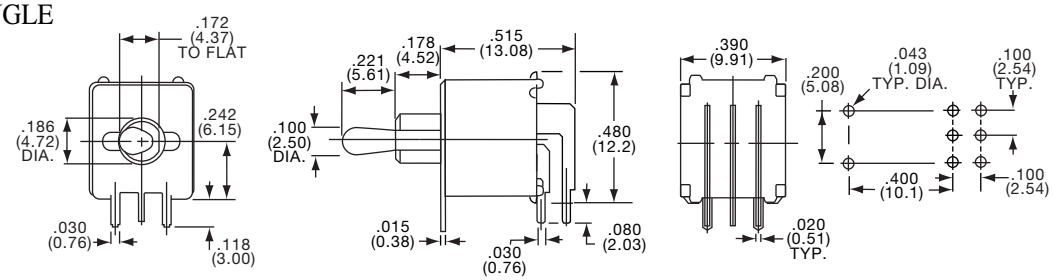


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
8-1437562-9	TTE11DGRA1ES	SPDT	D	On None On
9-1437562-2	TTE11EGRA1ES	SPDT	E	On Off On

2 POLE-PC RIGHT ANGLE



TTE21NGRA1ES
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
1437563-4	TTE21NGRA1ES	DPDT	N	On None On
	TTE21PGRA1ES	DPDT	P	On Off On

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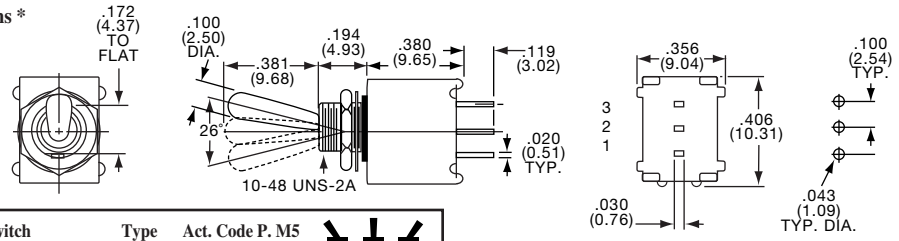
Toggle Switches, Tiny, Enviromental and Process Sealed

For terminal connections refer to Code Chart on page M5-6.

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

*** Refer to Page C8 for Other Options ***

1 POLE



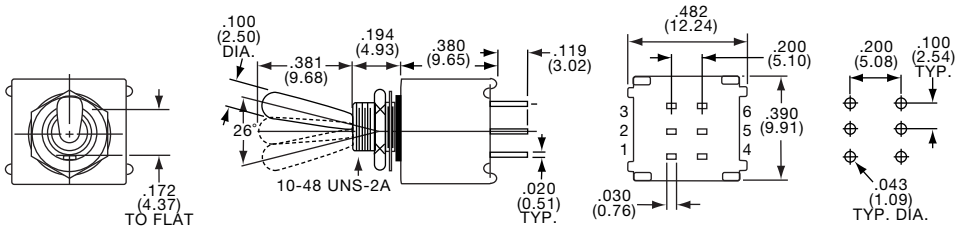


TTE11DGPC3TES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
8-1437562-5	TTE11AGPC3TES	SPST	A	On None Off
8-1437562-7	TTE11DGPC3TES	SPDT	D	On None On
9-1437562-0	TTE11EGPC3TES	SPDT	E	On Off On

Note: No center terminal on "A" action switches.

2 POLE

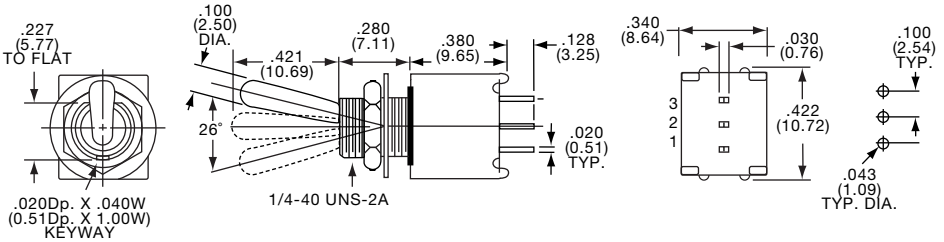




TTE21NGPC3TES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
1437563-2	TTE21NGPC3TES	DPDT	N	On None On
	TTE21PGPC3TES	DPDT	P	On Off On

1 POLE



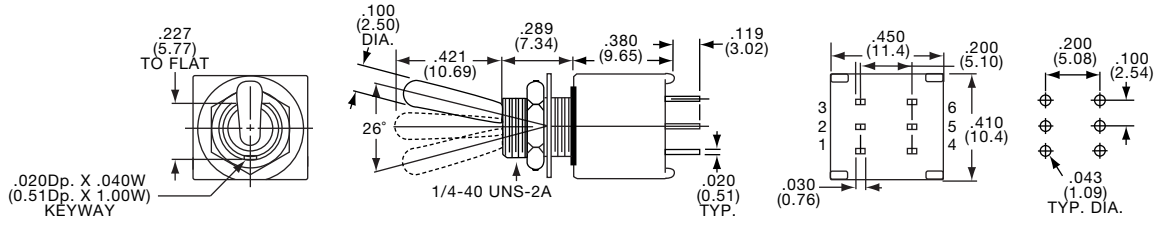


TTE11DGPC9T4ES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
	TTE11AGPC9T1/4ES	SPST	A	On None Off
8-1437562-8	TTE11DGPC9T1/4ES	SPDT	D	On None On
9-1437562-1	TTE11EGPC9T1/4ES	SPDT	E	On Off On

Note: No center terminal on "A" action switches.

2 POLE





TTE21NGPC9T4ES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
	TTE21KGPC9T1/4ES	DPST	K	On None Off
1437563-3	TTE21NGPC9T1/4ES	DPDT	N	On None On
	TTE21PGPC9T1/4ES	DPDT	P	On Off On

Note: No center terminal on "K" action switches.

Catalog 1308390
Issued 9-04
www.tycoelectronics.com

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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, Process Sealed, Vertical and Right Angle, Round Actuator

MATERIAL SPECIFICATIONS:

Contacts .....Gold over nickel plate
Case Material .....Polyester 94V-0
Actuator Material .....Nickel plated copper alloy
Terminals .....Phosphor bronze
Terminal Seal .....Epoxy
Process Seal .....Tested to MIL-STD-202, method 112
(Internal O-Ring) test condition A and D, 85°C

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA Max. @ 20 VDC
Initial Contact Resistance.....100 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....500 Megohms @ 250 VDC min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuation Force .....400 Grams
Life Expectancy .....Up to 10,000 Cycles

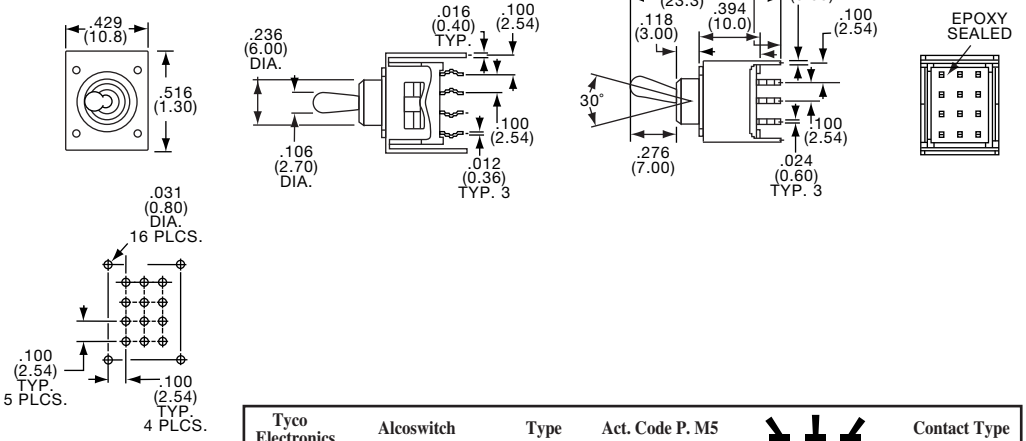
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

4PDT



ATE4DGPC2

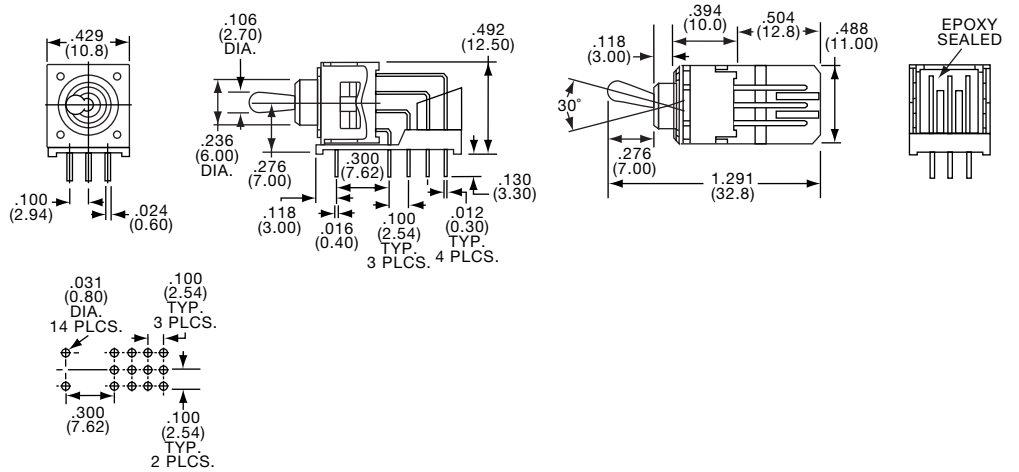


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5				Contact Type
2-1437557-1	ATE4DGPC2	4PDT	8	On	None	On	Gold

4PDT



ATE4DGRA2



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5				Contact Type
2-1437557-2	ATE4DGRA2	4PDT	8	On	None	On	Gold

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Japan: 81-44-844-8013
UK: 44-141-810-8967

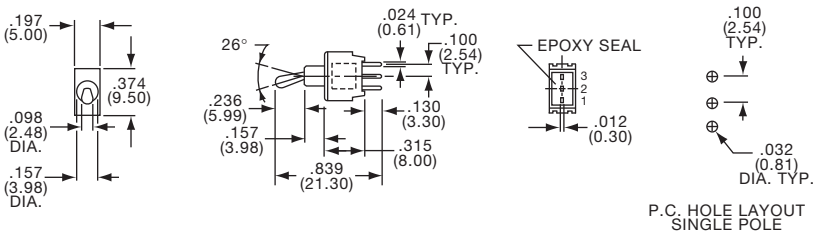
C

ATE Series

Toggle Switches, Process Sealed, Vertical, Round or Flat Actuators

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

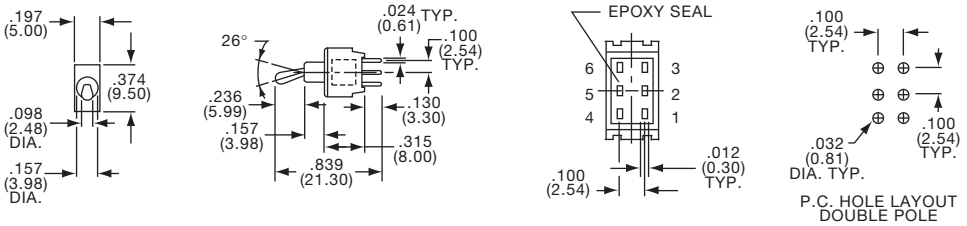
SPDT/DPDT





ATE1DGPC1

Extra compact double pole saves PCB real estate.





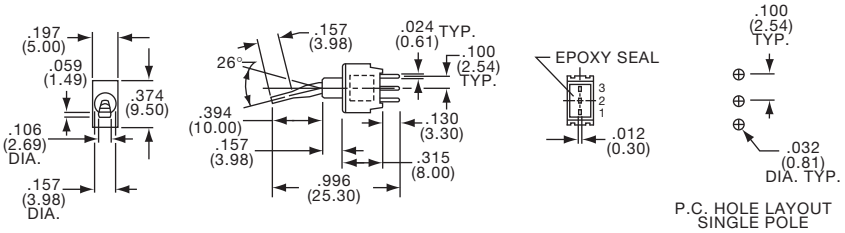
ATE2DGPC1

Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1437557-2	ATE1DGPC1	SPDT	On None On	Gold
1437557-6	ATE1EGPC1	SPDT	On Off On	Gold
	ATE1FGPC1	SPDT	On None (On)	Gold
1-1437557-2	ATE1GGPC1	SPDT	(On) Off (On)	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

(On) indicates momentary position.

Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1-1437557-5	ATE2DGPC1	DPDT	On None On	Gold
1-1437557-9	ATE2EGPC1	DPDT	On Off On	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

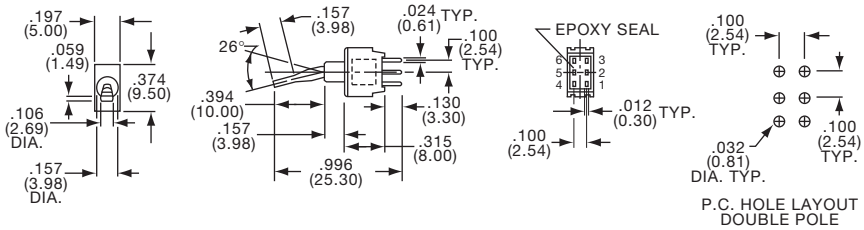
SPDT/DPDT





ATE1DGPC7

Extra compact double pole saves PCB real estate.





ATE2DGPC7

Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1437557-3	ATE1DGPC7	SPDT	On None On	Gold
1-1437557-3	ATE1GGPC7	SPDT	(On) Off (On)	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

(On) indicates momentary position.

Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1-1437557-6	ATE2DGPC7	DPDT	On None On	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

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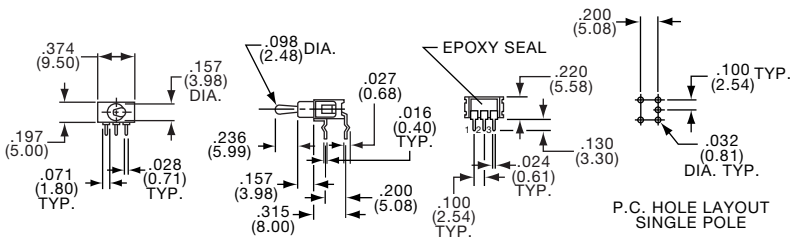
Toggle Switches, Process Sealed, Right Angle, Retention Feature

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



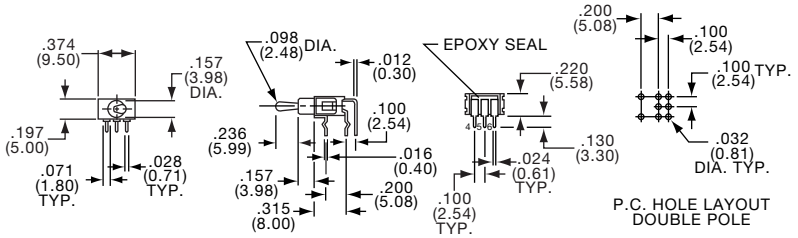
ATE1DGRA1
Horizontal Actuation



Extra compact double pole saves PCB real estate.



ATE2DGRA1
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1437557-4	ATE1DGRA1	SPDT	On None On	Gold
1437557-8	ATE1EGRA1	SPDT	On Off On	Gold
1-1437557-0	ATE1FGRA1	SPDT	On None (On)	Gold
1-1437557-4	ATE1GGRA1	SPDT	(On) Off (On)	Gold
Terminals Connected:			2-3 2-1	

(On) indicates momentary position.

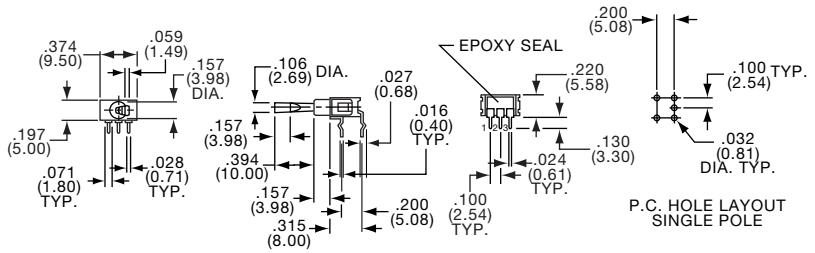
Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1-1437557-7	ATE2DGRA1	DPDT	On None On	Gold
3-1437592-7	ATE2EGRA1	DPDT	On Off On	Gold
	ATE2GGRA1	DPDT	(On) Off (On)	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

(On) indicates momentary position.

SPDT/DPD



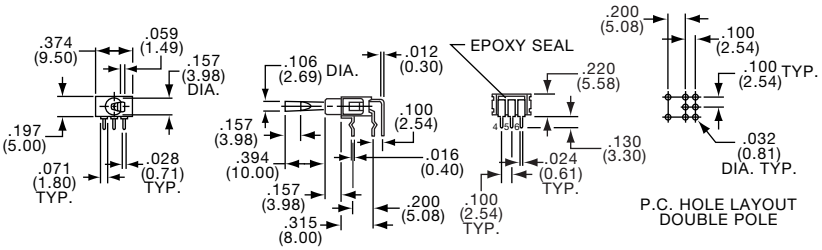
ATE1DGRA7
Horizontal Actuation



Extra compact double pole saves PCB real estate.



ATE2DGRA7
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1437557-5	ATE1DGRA7	SPDT	On None On	Gold
1437557-9	ATE1EGRA7	SPDT	On Off On	Gold
1-1437557-1	ATE1FGRA7	SPDT	On None (On)	Gold
Terminals Connected:			2-3 2-1	

(On) indicates momentary position.

Tyco Electronics	Alcoswitch	Type	↘ ⊥ ↙	Contact Type
1-1437557-8	ATE2DGRA7	DPDT	On None On	Gold
Terminals Connected:			2-3 2-1	
			5-6 5-4	

(On) indicates momentary position.

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Toggle Switches, A Series, Part Number Matrix

"A" SERIES DESIGN FEATURES

- Toggle – Machined brass, heavy nickel plated.
- Bushing & Frame – Rigid one-piece die cast, copper flashed, heavy nickel plated.
- Fixed Contact – Welded construction.
- Terminal Seal – Epoxy sealing of terminals is standard.

MATERIAL SPECIFICATIONS:

Contacts .....Gold/gold flash
Silver/tin lead
Case Material .....Thermoset
Terminal Seal .....Epoxy

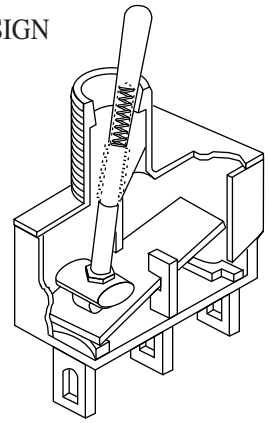
TYPICAL PERFORMANCE CHARACTERISTICS:

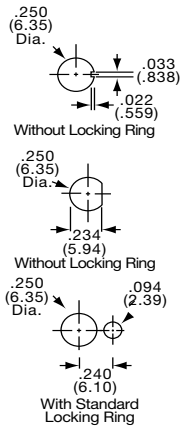
Contact Rating .....Silver: 2 A @ 250 VAC or 5 A @ 125 VAC
Silver: 2 A @ 30 VDC
Gold: 0.4 VA @ 20 VAC/DC max.
Insulation Resistance .....1,000 Megohms min. @ 500 VDC.
Dielectric Strength .....1,000 Volts RMS @ sea level initial
Electrical Life .....Up to 30,000 Cycles

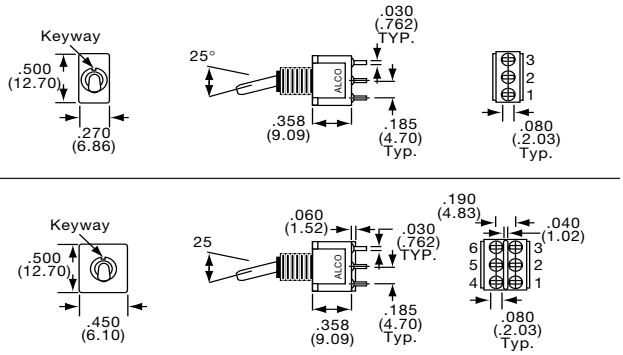
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
Storage Temperature.....-49°F to + 212°F (-45°C to + 100°C)
Note: Hardware included with switch

DESIGN







PART NUMBERING

Model

- A1 Single Pole
- A2 Double Pole

Function

- 01 On-On
- 03 On-Off-On
- 05 (On)-Off-(On)
- 07 On-Off-(On)
- 08 On-(On)
- 11 On-On-On (double pole case only)
- 13 On-On-(On) (double pole case only)
- 15 (On)-On-(On) (double pole case only)

See page C23 for SP3T wiring diagram.

Toggle

- S Bat. Long
- K Locking
- K1 Locking
- M Bat. Short
- P3 Flatted (with Y only)
- P4 Flatted (with Y only)
- T Large Toggle & Bushing (15/32)
- T1 Large Toggle & Bushing (15/32)
- T2P Large Flatted Toggle and Bushing (15/32)

Bushing

- Y 1/4-40 threaded, .35" long, slotted
- Y9 unthreaded, .35" long
- CW 1/4-40 threaded, .37" long, actuator & bushing flange environmental seals S & M Toggles only
- D 1/4-40 threaded, .28" long, slotted
- D9 Unthreaded, .28" long
- H 1/4-40 threaded, flanged, .30" long

Terminal

- Z Wire Lug
- A Right Angle
- AV2 Vertical Right Angle
- C Printed Circuit
- V30 V40 V90 Vertical Support
- W Wire Wrap
- Z3 Quick Connect

Contact

- Q Silver
- B Gold
- G Gold over Silver

K, K1: Cap Color (Nickel Standard)

- 0 Black
- 2 Red

Option

U.L.(Q or G contact only)

Note: For surface mount termination, use the "TST" series, Page C7

Other Options

- N Black finish toggle, bushing and hardware. Add "N" to end of part number, but before U.L. option.
- O Internal O-ring environmental actuator seal. Add letter after toggle option: S & M.
- P Anti-Push-In/Anti rotate. Add letter after toggle S & M.

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Toggle Switches, A Series, Options

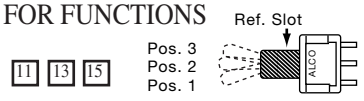
FUNCTIONS

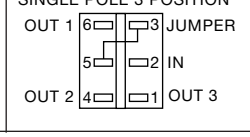
The following functions available in SP or DP.

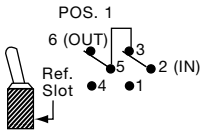
01	2 Positions	None indicates no mechanical position	On	None	On
03	3 Positions	Off indicates a mechanical position with no electrical connection.	On	Off	On
05	3 Positions	(On) indicates momentary action.	(On)	Off	(On)
07	3 Positions		(On)	Off	On
08	2 Positions		(On)	None	On
		SPDT, connect terminals:	1—2	—	2—3
		DPDT, connect terminals:	1—2 4—5	— —	2—3 5—6
11	3 Positions		On	On	On
13	3 Positions		(On)	On	On
15	3 Positions		(On)	On	(On)
Functions available in DP case only		Connect terminals:	1—2 4—5	2—3 4—5	2—3 5—6

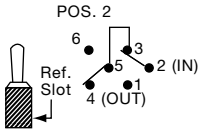
*** SP3T functions achieved with external jumper installed by customer**

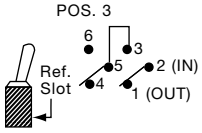
WIRING DIAGRAM FOR FUNCTIONS





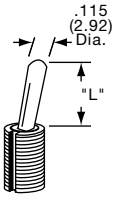




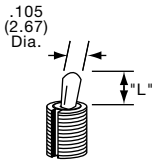


TOGGLES

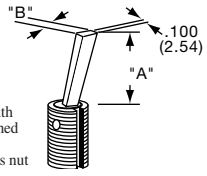
S Standard



M Short

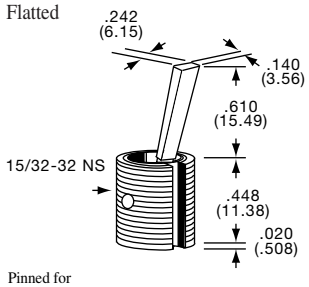


P3
P4



Flatted
Available only with "Y" bushing. Pinned for anti-rotation. Use N-3-AG dress nut for enhancement.
Pg. C54

T2P Flatted



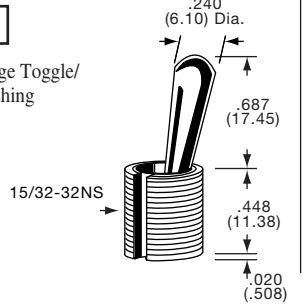
Pinned for anti-rotation

Dimension "L"	Bushing
.410 (10.41) .480 (12.19)	"Y", "H", "CW" "D", "D9"

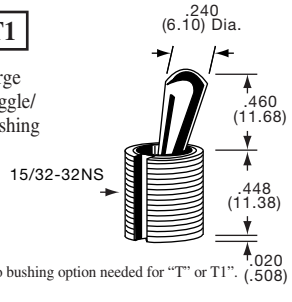
Dimension "L"	Bushing Type
.200 (5.08) .270 (6.86)	"Y", "H", "CW" "D", "D9"

Actuator	Dimension "A"	Dimension "B"
P3	.450 (11.43)	.200 (5.08)
P4	.250 (6.35)	.165 (4.19)

T Large Toggle/ Bushing

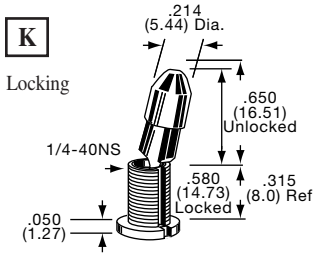


T1 Large Toggle/ Bushing

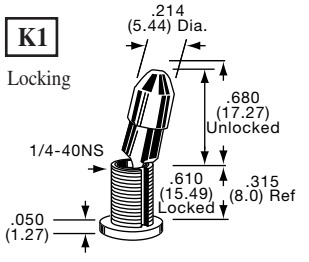


No bushing option needed for "T" or T1".

K Locking



K1 Locking



No bushing option needed for "K" or K1" "K" locking levers are used to prevent accidental switching and must be lifted up prior to actuation. Standard nickel finish.

Catalog 1308390
Issued 9-04

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USA: 1-800-522-6752
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C. America: 52-55-5-729-0425

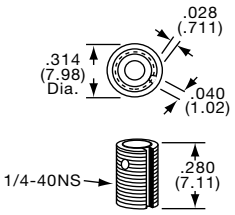
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, A Series, Options

BUSHINGS

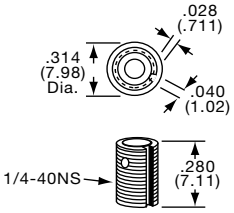
Y

1/4-40 Thread
.35" long, slotted
(Standard)



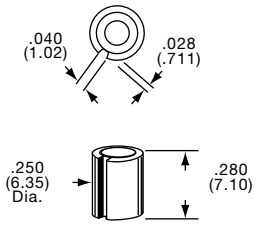
D

1/4-40 Thread
.28" long, slotted

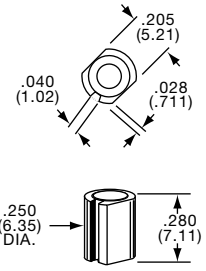


D9

Unthreaded
.28" long



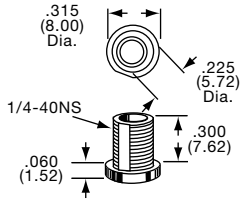
Used with
Z, C & **W**
terminations



Used with
A, AV2, V30
V80 & **V90**
terminations

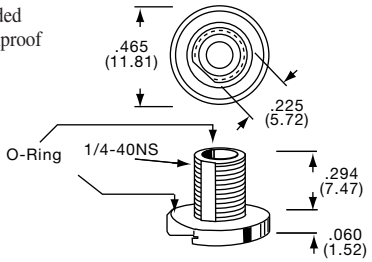
H

1/4-40 Thread
Flanged, .30" long



C W

Threaded
Splashproof

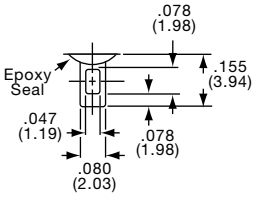


For S & M Toggles

TERMINALS

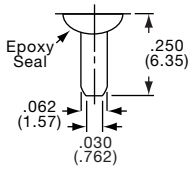
Z

Wire Lug



Z3

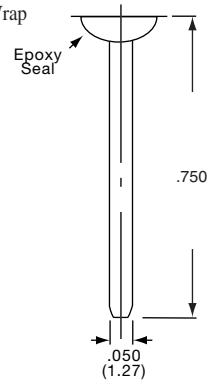
Quick Connect



Mates with Tyco
61454 or 60900.

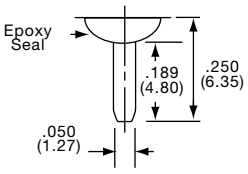
W

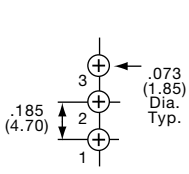
Wire Wrap



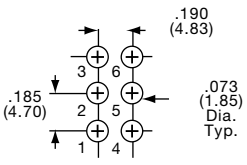
C

Printed Circuit





Single pole



Double pole

Catalog 1308390
Issued 9-04

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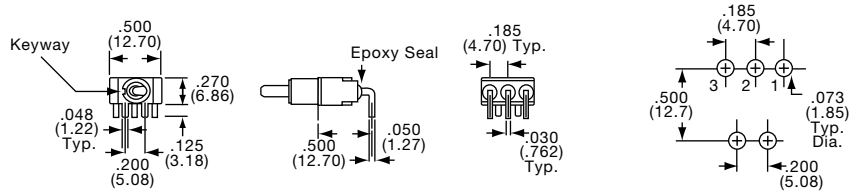
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, A Series, Options

TERMINALS

A

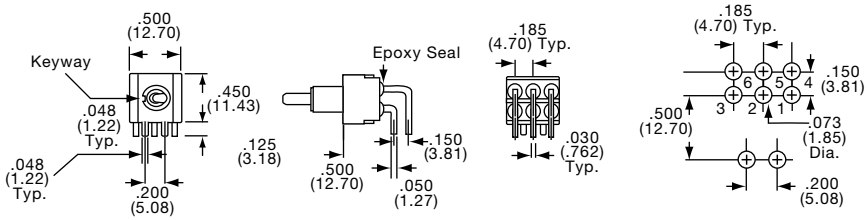
Right Angle
Single Pole



Note: Terminal numbers viewed from top of P.C. boards.

A

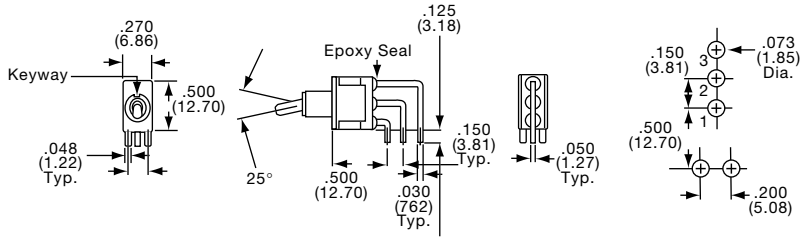
Right Angle
Double Pole



Note: Terminal numbers viewed from top of P.C. boards.

AV2

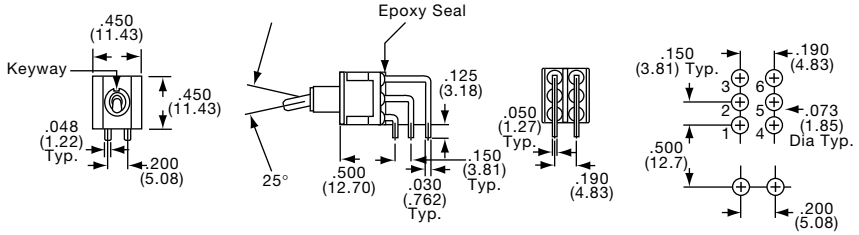
Vertical Right Angle
Single Pole



Note: Terminal numbers viewed from top of P.C. boards.

AV2

Vertical Right Angle
Double Pole



Note: Terminal numbers viewed from top of P.C. boards.

C

Gemini Series

Catalog 1308390
Issued 9-04

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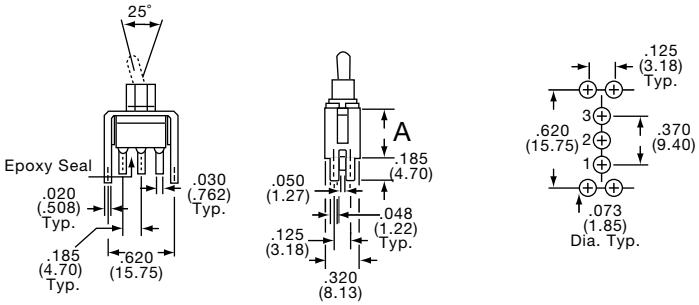
Toggle Switches, A Series, Options

TERMINALS

NOTE: Terminal numbers viewed from top of P.C. board

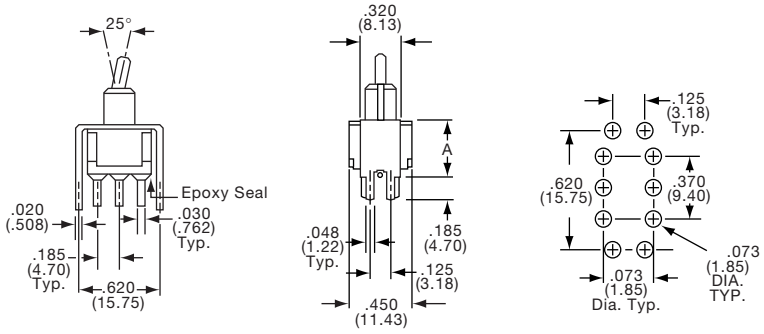
V30 **V40** **V90**

Vertical Support Bracket
Single Pole



Option Code	Dim."A"
V30	.460 (11.68)
V40	.630 (16.00)
V90	1.150 (29.21)

Vertical Support Bracket
Double Pole



Option Code	Dim."A"
V30	.460 (11.68)
V40	.630 (16.00)
V90	1.150 (29.21)

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Brass with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Brass with tin/lead plate.

ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

UL/CSA RATING: 5A @ 125 VAC, 3A@ 250 VAC.
(Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Brass alloy, with gold plate.

ELECTRICAL RATING: O.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3A @ 250 VAC
(Specify "UL" option code)

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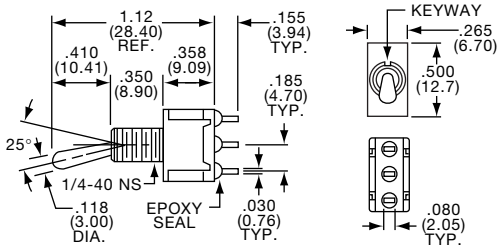
Toggle Switches, A Series, Vertical, Wire Lug, Long Bat Actuator

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT

Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5 ↘	P.M5 ⊥	P.M5 ↙
Silver Contacts						
5-1437554-0	A101SYZQ	SPDT	1	On	None	On
7-1437554-7	A103SYZQ	SPDT	5	On	Off	On
9-1437554-6	A105SYZQ	SPDT	5	(On)	Off	(On)
1437555-9	A107SYZQ	SPDT	5	On	Off	(On)
2-1437555-0	A108SYZQ	SPDT	1	On	None	(On)
Gold Contacts						
4-1437554-9	A101SYZB	SPDT	1	On	None	On
7-1437554-6	A103SYZB	SPDT	5	On	Off	On
9-1437554-5	A105SYZB	SPDT	5	(On)	Off	(On)
	A107SYZB	SPDT	5	On	Off	(On)

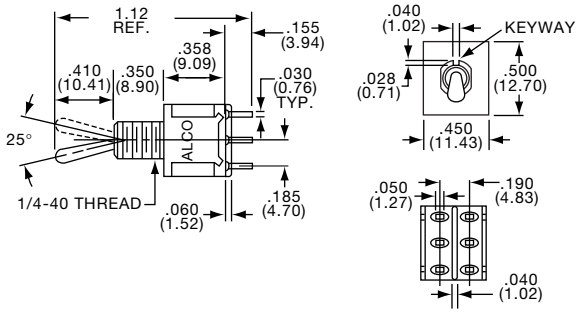




A101SYZQ

DPDT

Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5 ↘	P.M5 ⊥	P.M5 ↙
Silver Contacts						
4-1437555-9	A201SYZQ	DPDT	2	On	None	On
6-1437555-2	A203SYZQ	DPDT	6	On	Off	On
7-1437555-0	A205SYZQ	DPDT	6	(On)	Off	(On)
7-1437555-6	A207SYZQ	DPDT	6	On	Off	(On)
8-1437555-5	A208SYZQ	DPDT	2	On	None	(On)
1437556-1	A211SYZQ	SP3T	11	On	On	On
1437556-4	A213SYZQ	SP3T	11	On	On	(On)
1437556-7	A215SYZQ	SP3T	11	(On)	On	(On)





A201SYZQ

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UK: 44-141-810-8967

Toggle Switches, A Series, PC Terminals, Long Bat Actuators

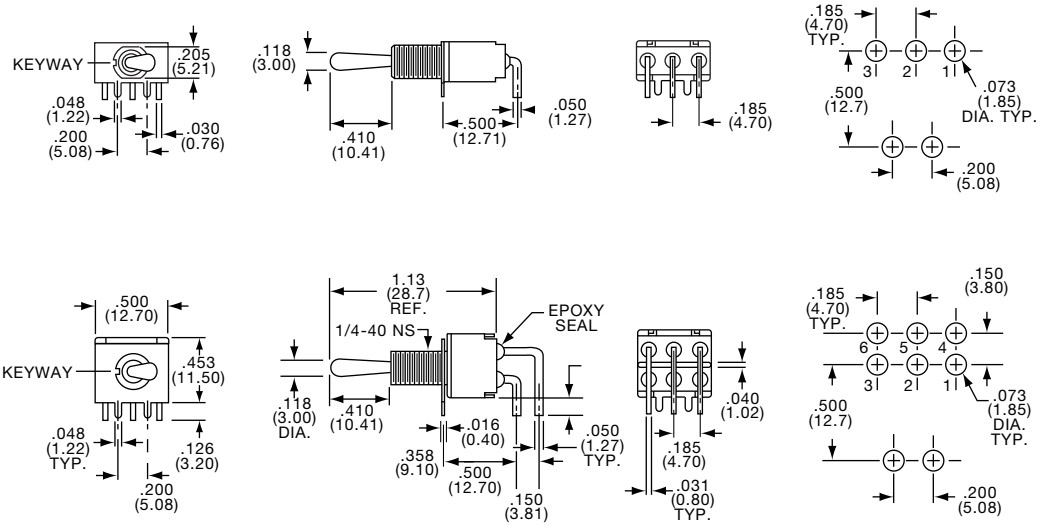
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



A101SYAB
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	
Gold Contacts				
4-1437554-3	A101SYAB	SPDT	1	On None On
	A103SYAB	SPDT	5	On Off On
4-1437555-3	A201SYAB	DPDT	2	On None On
	A208SYAB	DPDT	2	On None (On)

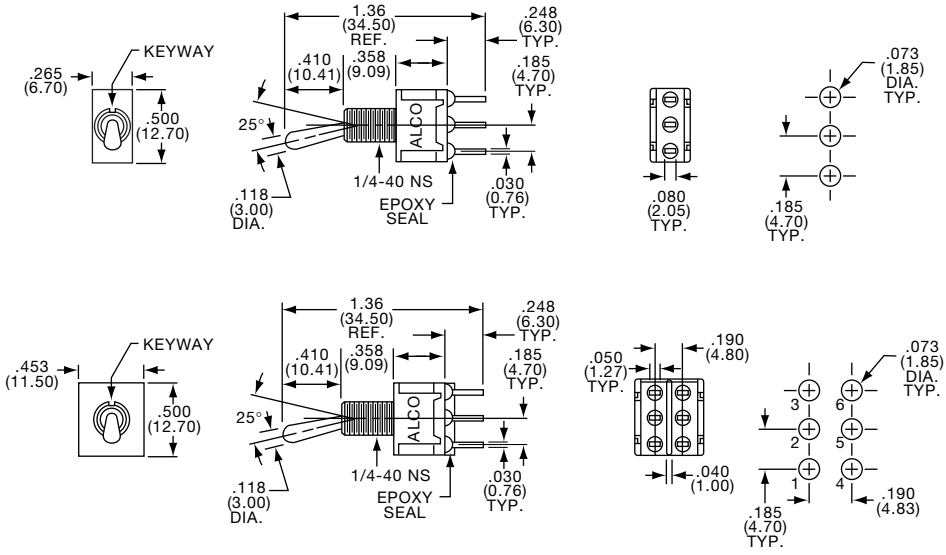
SPDT/DPDT



A101SYCB



A201SYCB



Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	
Gold Contacts				
4-1437554-5	A101SYCB	SPDT	1	On None On
7-1437554-2	A103SYCB	SPDT	5	On Off On
1-1437555-8	A108SYCB	SPDT	1	On None (On)
4-1437555-5	A201SYCB	DPDT	2	On None On
6-1437555-0	A203SYCB	DPDT	6	On Off On
8-1437555-3	A208SYCB	DPDT	2	On None (On)

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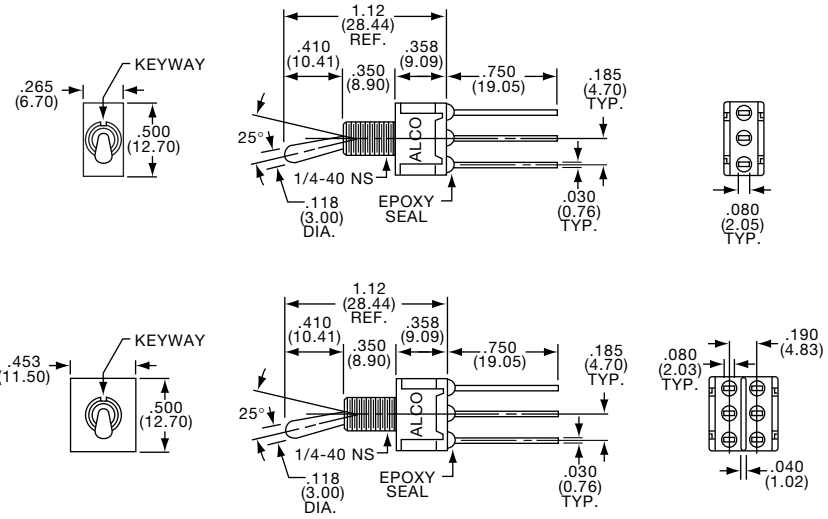
USA: 1-800-522-6752
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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
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Toggle Switches, A Series, Wire Wrap or Wire Lug, Long Bat Actuators

*** Refer to Pages C22-C26 for Additional Options ***

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT





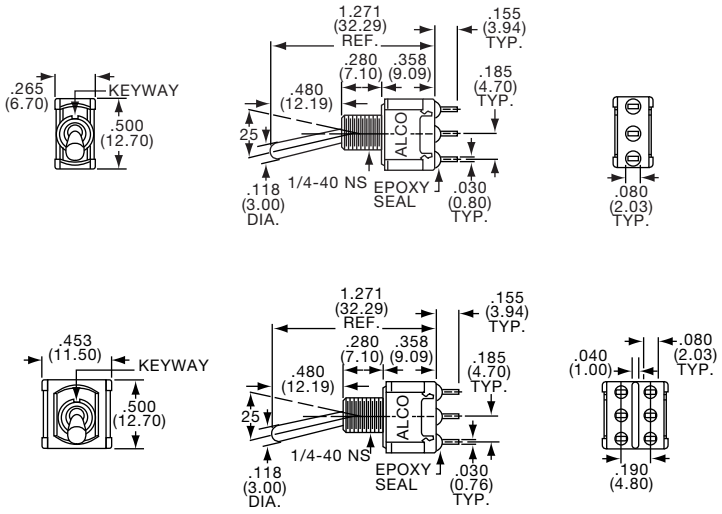
A101SYWQ



A201SYWQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙
Silver Contacts				
4-1437554-8	A101SYWQ	SPDT	1	On None On
7-1437554-5	A103SYWQ	SPDT	5	On Off On
4-1437555-7	A201SYWQ	DPDT	2	On None On
	A203SYWQ	DPDT	6	On Off On

SPDT/DPDT





A101SDZQ



A201SDZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙
Silver Contacts				
4-1437554-0	A101SDZQ	SPDT	1	On None On
6-1437554-9	A103SDZQ	SPDT	5	On Off On
4-1437555-1	A201SDZQ	DPDT	2	On None On
5-1437555-9	A203SDZQ	DPDT	6	On Off On

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C
Gemini Series

Toggle Switches, A Series, PC Tail, Straight or Right Angle, Long Bat Actuator

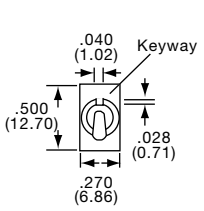
* Refer to Pages C22-C26 for Additional Options *

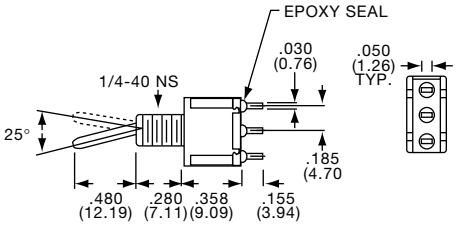
SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A101SDCQ

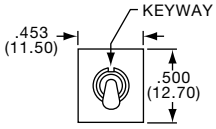


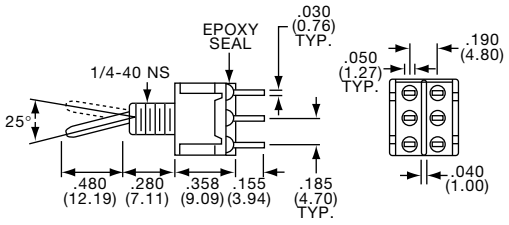


DPDT



A201SDCQ



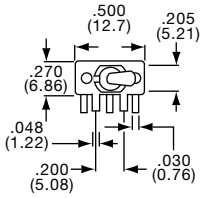


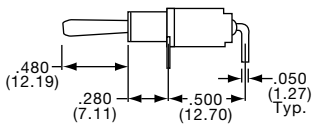
Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	
Silver Contacts				
3-1437554-9	A101SDCQ	SPDT	1	On None On
6-1437554-8	A103SDCQ	SPDT	5	On Off On
1571670-1	A201SDCQ	DPDT	2	On None On
	A203SDCQ	DPDT	6	On Off On
	A208SDCQ	DPDT	2	On None (On)

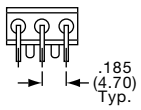
SPDT/DPDT



A101SD9AQ
Horizontal Actuation

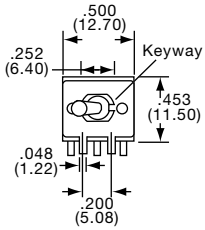


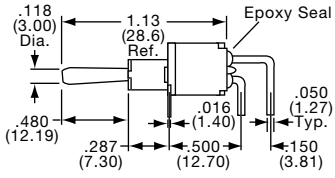


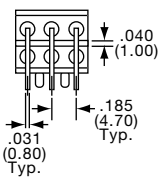




A201SD9AQ
Horizontal Actuation







Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
Silver Contacts		**Gold Contacts**				
3-1437554-4	A101SD9AQ	3-1437554-3	A101SD9AB	SPDT	1	On None On
6-1437554-4	A103SD9AQ		A103SD9AB	SPDT	5	On Off On
1-1437555-6	A108SD9AQ			SPDT	1	On None (On)
3-1437555-8	A201SD9AQ		A201SD9AB	DPDT	2	On None On
8-1437555-1	A208SD9AQ		A208SD9AB	DPDT	2	On None (On)

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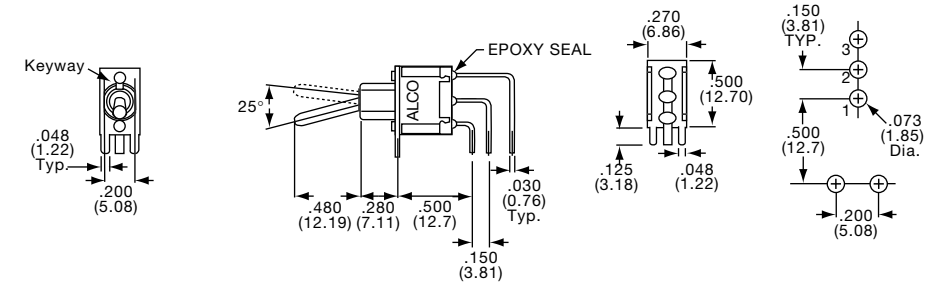
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, A Series, Vertical, Right Angle, Long Bat Actuator

*** Refer to Pages C22-C26 for Additional Options ***

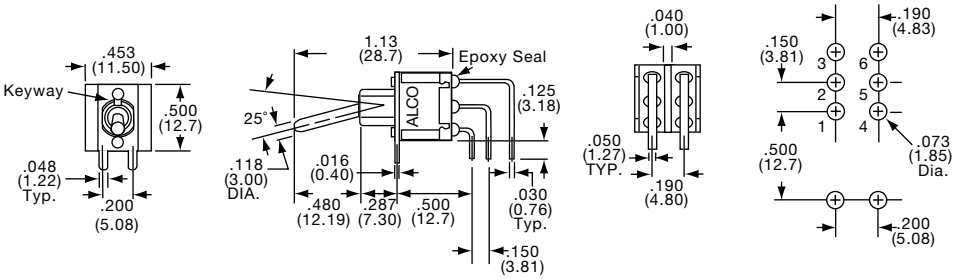
SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



SPDT



A101SD9AV2Q
Vertical Actuation



DPDT

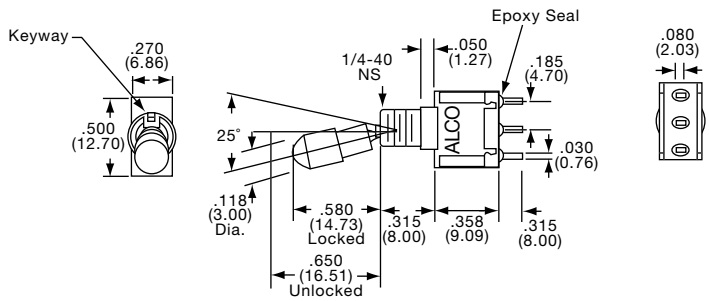


A201SD9AV2Q
Vertical Actuation

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙	Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙
Silver Contacts					**Silver Contacts**				
3-1437554-6	A101SD9AV2Q	SPDT	1	On None On	3-1437555-9	A201SD9AV2Q	DPDT	2	On None On
6-1437554-6	A103SD9AV2Q	SPDT	5	On Off On	5-1437555-8	A203SD9AV2Q	DPDT	6	On Off On
					8-1437555-2	A208SD9AV2Q	DPDT	2	On None (On)

Toggle Switches, A Series, Wire Lug, Locking Toggle

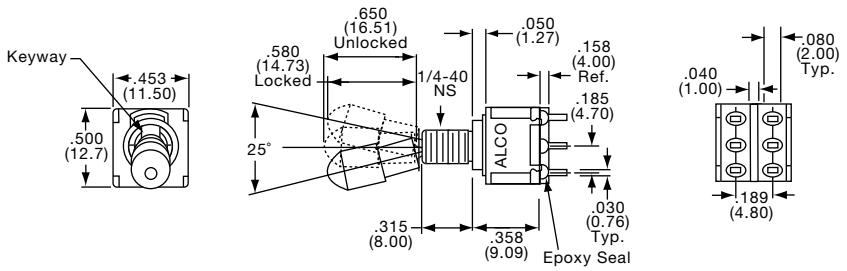
SPDT





A101KZQ

DPDT





A201KZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
Silver Contacts				
1437554-9	A101KZQ	SPDT	1	On None On
5-1437554-8	A103KZQ	SPDT	5	On Off On

Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	↘ ⊥ ↙
Gold Contacts		**Silver Contacts**				
	A201KZB	2-1437555-5	A201KZQ	DPDT	2	On None On
	A203KZB	5-1437555-3	A203KZQ	DPDT	6	On Off On
6-1437555-5	A205KZB		A205KZQ	DPDT	6	(On) Off (On)
8-1437555-8	A211KZB		A211KZQ	SP3T	11	On On On

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, A Series, Right Angle, Short Bat Actuators

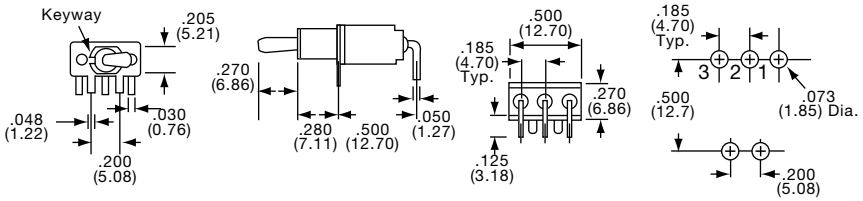
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A101MD9AQ
Horizontal Actuation

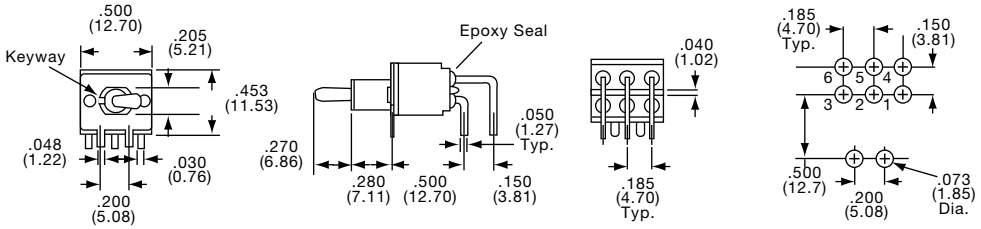


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
Silver Contacts		**Gold Contacts**				
1-1437554-6	A101MD9AQ	1-1437554-4	A101MD9AB	SPDT	1	On None On
6-1437554-1	A103MD9AQ	5-1437554-9	A103MD9AB	SPDT	5	On Off On
	A108MD9AQ	1-1437555-2	A108MD9AB	SPDT	1	On None (On)

DPDT



A201MD9AQ
Horizontal Actuation

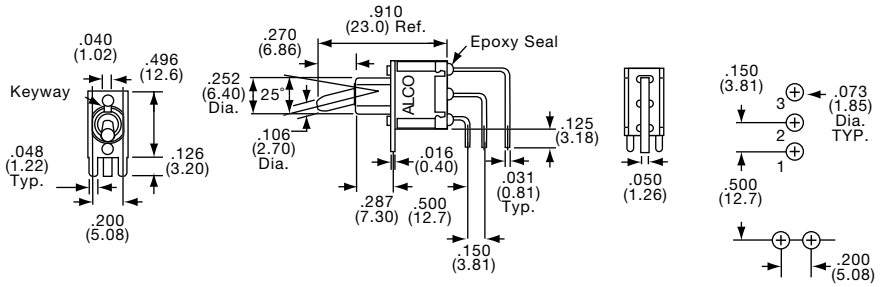


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
Silver Contacts		**Gold Contacts**				
2-1437555-8	A201MD9AQ	2-1437555-7	A201MD9AB	DPDT	2	On None On
		5-1437555-4	A203MD9AB	DPDT	6	On Off On

SPDT



A101MD9AV2Q
Vertical Actuation

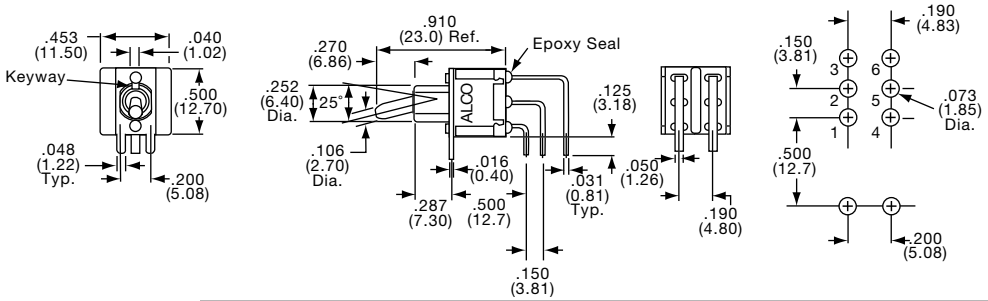


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
Silver Contacts		**Gold Contacts**				
1-1437554-9	A101MD9AV2Q	1-1437554-7	A101MD9AV2B	SPDT	1	On None On
	A103MD9AV2Q	6-1437554-2	A103MD9AV2B	SPDT	5	On Off On
	A108MD9AV2Q			SPDT	1	On None (On)

DPDT



A201MD9AV2AQ
Vertical Actuation



Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
Silver Contacts		**Gold Contacts**				
3-1437555-0	A201MD9AV2Q	2-1437555-9	A201MD9AV2B	DPDT	2	On None On
	A203MD9AV2Q		A203MD9AV2B	DPDT	6	On Off On
	A208MD9AV2Q		A208MD9AV2B	DPDT	2	On None (On)

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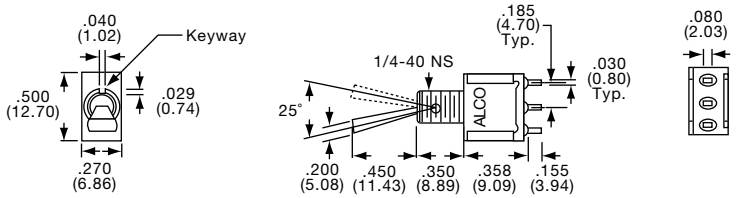
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, A Series, Vertical, Wire Lug, Flat or Long Bat Actuator

*** Refer to Pages C22-C26 for Additional Options ***

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT

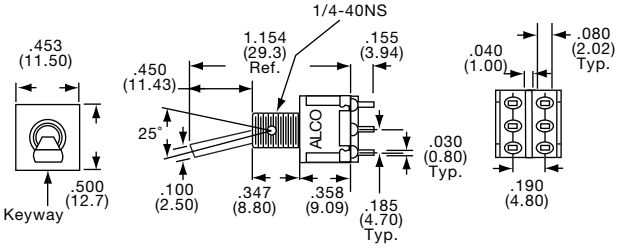




A101P3YZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘	⊥	↙
Silver Contacts						
2-1437554-9	A101P3YZQ	SPDT	1	On	None	On
6-1437554-3	A103P3YZQ	SPDT	5	On	Off	On
8-1437554-7	A105P3YZQ	SPDT	5	(On)	Off	(On)
1437555-5	A107P3YZQ	SPDT	5	On	Off	(On)
1-1437555-5	A108P3YZQ	SPDT	1	On	None	(On)

DPDT

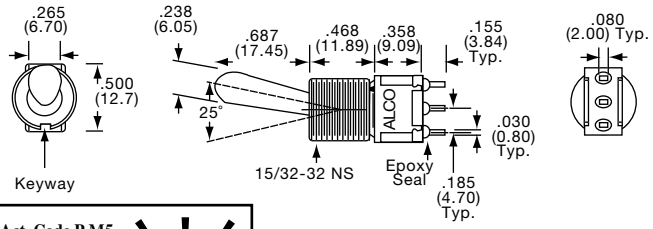




A201P3YZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘	⊥	↙
Silver Contacts						
3-1437555-6	A201P3YZQ	DPDT	2	On	None	On
5-1437555-6	A203P3YZQ	DPDT	6	On	Off	On
6-1437555-6	A205P3YZQ	DPDT	6	(On)	Off	(On)
7-1437555-3	A207P3YZQ	DPDT	6	On	Off	(On)
8-1437555-0	A208P3YZQ	DPDT	2	On	None	(On)
9-1436555-3	A211P3YZQ	SP3T	11	On	On	On
	A215P3YZQ	SP3T	11	(On)	On	(On)

SPDT

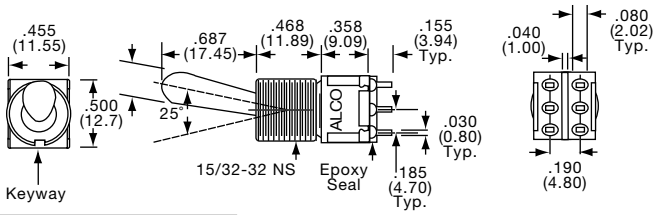




A101TZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘	⊥	↙
Silver Contacts						
5-1437554-6	A101TZQ	SPDT	1	On	None	On
8-1437554-0	A103TZQ	SPDT	5	On	Off	On

DPDT





A201TZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘	⊥	↙
Silver Contacts						
5-1437555-2	A201TZQ	DPDT	2	On	None	On
6-1437555-4	A203TZQ	DPDT	6	On	Off	On
	A211TZQ	SP3T	11	On	On	On

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UK: 44-141-810-8967

Toggle Switches, A Series, Wire Lug, 15/32 Bushing, Short Bat Actuator

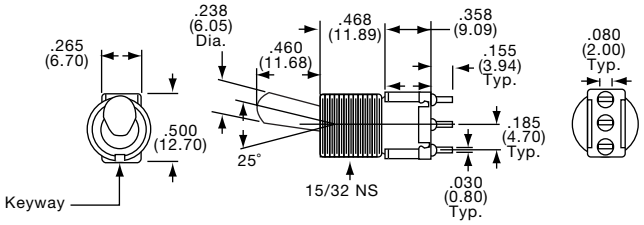
*** Refer to Pages C22-C26 for Additional Options ***

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A103T1ZQ

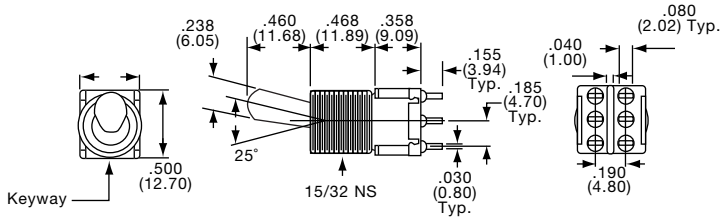


Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙
Silver Contacts				
5-1437554-4	A101T1ZQ	SPDT	1	On None On
7-1437554-9	A103T1ZQ	SPDT	5	On Off On
9-1437554-8	A105T1ZQ	SPDT	5	(On) Off (On)
	A108T1ZQ	SPDT	1	On None (On)

DPDT



A201T1ZQ



Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	↘ ⊥ ↙
Silver Contacts				
5-1437555-0	A201T1ZQ	DPDT	2	On None On
6-1437555-3	A203T1ZQ	DPDT	6	On Off On
7-1437555-1	A205T1ZQ	DPDT	6	(On) Off (On)
7-1437555-7	A207T1ZQ	DPDT	6	On Off (On)
8-1437555-6	A208T1ZQ	DPDT	2	On None (On)
1437556-2	A211T1ZQ	SP3T	11	On On On

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Toggle Switches, AE Series, Process Sealed, Part Number Matrix

"AE" SERIES DESIGN FEATURES

- MIL-STD-202 Method 112C Leak Test
- Toggle – Machined brass, heavy nickel plated.
- Bushing & Cover - Nylon, ultrasonically welded to case, with integral "O-ring", UL94VO.
- Fixed Contact – Welded construction.
- Terminal Seal – Epoxy sealing of terminals is standard.
- Termination – Precious metal (gold or silver)/brass or copper strip with welded contact area.

MATERIAL SPECIFICATIONS:

Process Sealing .....“O-ring” seals will withstand wave soldering and various subsequent cleaning operations. Meets MIL-STD-202, Method 112C, Test Condition A & D, 85ºC.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
Storage Temperature.....-49°F to + 212°F (-45°C to + 100°C)
Solder Heat Resistance .....See page M3-4

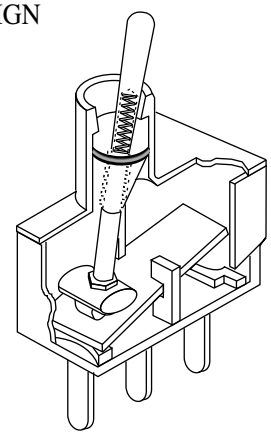
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Silver: 2 A @ 250 VAC or 5 A @ 125 VAC
Silver: 2 A @ 30 VDC
Gold: 0.4 VA @ 20 VAC/DC
Contact Resistance .....30 Milliohms max. initial
Insulation Resistance .....1,000 Megohms min. @ 500 VDC.
Dielectric Strength .....1,000 Volts RMS @ sea level initial
Static Withstanding.....15 KV per IEC 801-2
Electrical Life .....Up to 30,000 Cycles

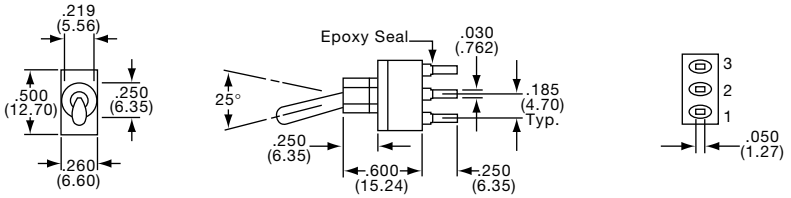
C

Gemini Series

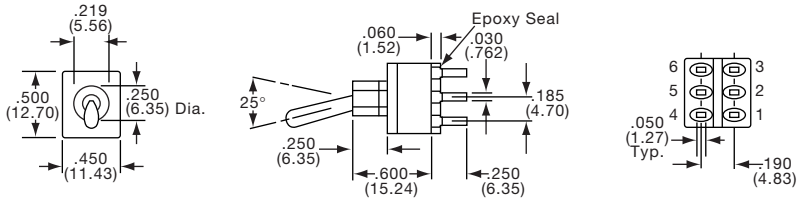
“O-RING” DESIGN



SINGLE POLE



(TYPICAL DIMENSIONS)



DOUBLE POLE

PART NUMBERING

Model

- AE1 Single Pole
- AE2 Double Pole

Function

- 01 On-On
- 03 On-Off-On
- 05 (On)-Off-(On)
- 07 On-Off-(On)
- 08 On-(On)
- 11 On-On-On
- 13 On-On-(On)
- 15 (On)-On-(On)

Double Pole case only

Toggle

- S Bat. Long
- L Lever
- L1 Lever
- L2 Lever
- M Bat. Short

Bushing

D1

Unthreaded

Terminal

- A Right Angle
- AV2 Vertical Right Angle
- C Printed Circuit
- V30 Vertical Support Bracket
- W Wire Wrap
- Z3 Quick Connect
- Z Wire Lug

Contact

- B Gold
- Q Silver
- G Gold over Silver

Option

U.L. (Q or G contact only)

Application Note: For surface mount termination, use the “TST” series, Page C5

Other Options

N Black finish toggle, add “N” to end of part number, but before U.L. option.

See page C36 for SP3T wiring diagram.

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Panel Mount, Wire Lug or PC Tails, 6 Amp

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper with gold flash
Case Material.....Thermoset
Actuator Material .....Nickel plated copper alloy
Terminals.....Copper with gold flash
Terminal Seal .....Molded in

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4°F to +176°F (-20°C to +80°C)
Storage Temperature .....-40F to +176°F (-40°C to +80°C)
Solder Heat Resistance .....See page M3-4
Note: Hardware included with switches

TYPICAL PERFORMANCE CHARACTERISTICS:

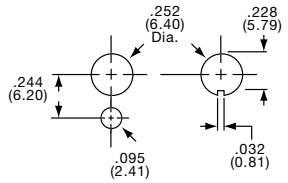
Contact Rating.....6 A @ 125 VAC, 3 A @ 250 VAC
Initial Contact Resistance .....10 Milliohms max.
Contact Timing .....Break-before-make
Insulation Resistance.....1,000 Megohms min.
Dielectric Strength.....1,500 Volts RMS @ sea level
Actuation Force .....1.3 to 2.7 lbs.
Actuator Travel .....140" (3.56)
Life Expectancy.....Up to 50,000 Actuations

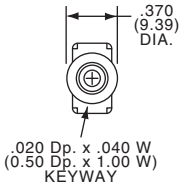
Cap not supplied, order separately
(See Cap Model C22 and C23 on page D32.

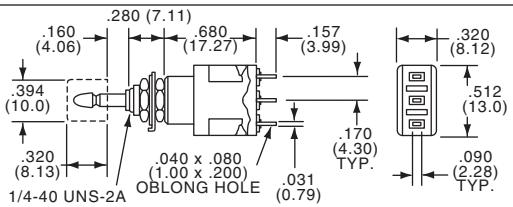
SPDT



MPA106D





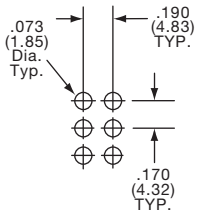


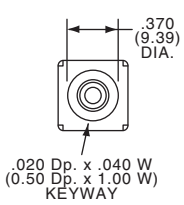
Part Number				
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action
2-1437567-8	MPA106D	SPDT	23	Push-on/Push-off
2-1437567-9	MPA106F	SPDT	19	Momentary

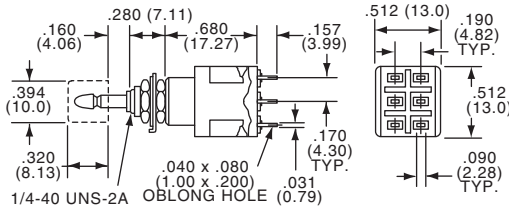
DPDT



MPA206N







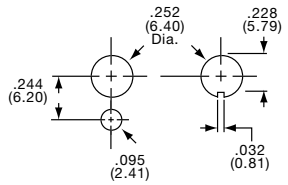
Part Number				
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action
Wirelug Terminals				
3-1437567-1	MPA206N	DPDT	24	Push-on/Push-off
3-1437567-3	MPA206R	DPDT	20	Momentary

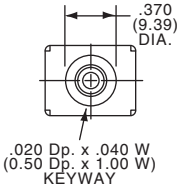
Part Number				
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action
PC Terminals				
3-1437567-2	MPA206NPC	DPDT	24	Push-on/Push-off
3-1437567-4	MPA206RPC	DPDT	20	Momentary

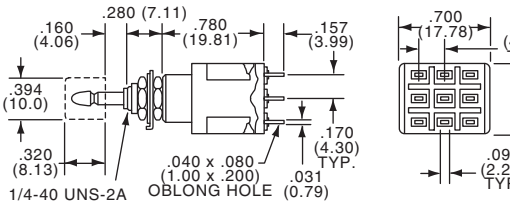
3PDT



MPA306D





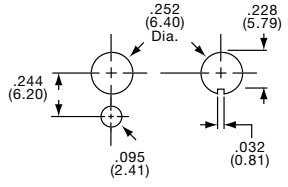


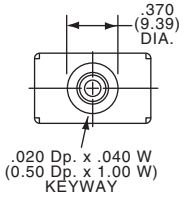
Part Number				
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action
3-1437567-5	MPA306D	3PDT	25	Push-on/Push-off
3-1437567-6	MPA306F	3PDT	21	Momentary

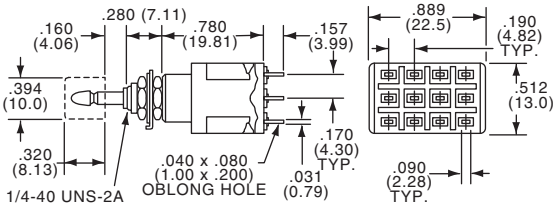
4PDT



MPA406N







Part Number				
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action
3-1437567-7	MPA406N	4PDT	26	Push-on/Push-off
3-1437567-8	MPA406R	4PDT	22	Momentary

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Splashproof, Panel Mount, Wire Lug, 6 Amp

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper with gold flash
Case Material.....Thermoset
Actuator Material .....Nickel plated copper alloy
Terminals.....Copper with gold flash
Terminal Seal .....Molded in

ENVIRONMENTAL SPECIFICATIONS:

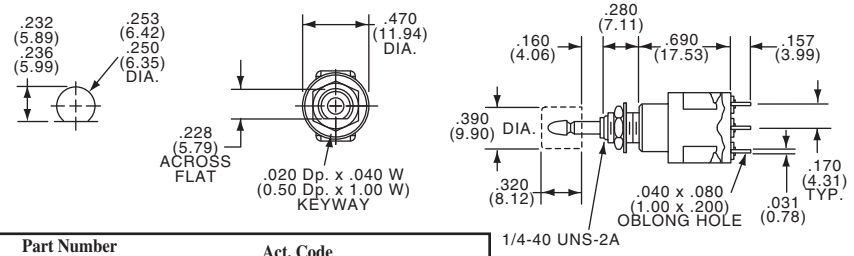
Operating Temperature .....-4°F to +176°F (-20°C to +80°C)
Storage Temperature .....-40°F to +176°F (-40°C to +80°C)
Note: Hardware included with switches

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating.....6 A @ 125 VAC, 3 A @ 250 VAC
Initial Contact Resistance .....10 Milliohms max.
Contact Timing .....Break-before-make
Insulation Resistance.....1,000 Megohms min.
Dielectric Strength.....1,500 Volts RMS @ sea level
Actuation Force .....1.3 to 2.7 lbs.
Actuator Travel .....140" (3.56)
Life Expectancy.....Up to 50,000 Actuations

Notice: O-ring on shoulder and inside moveable shaft provides splashproof seal. Meets IP65

SPDT

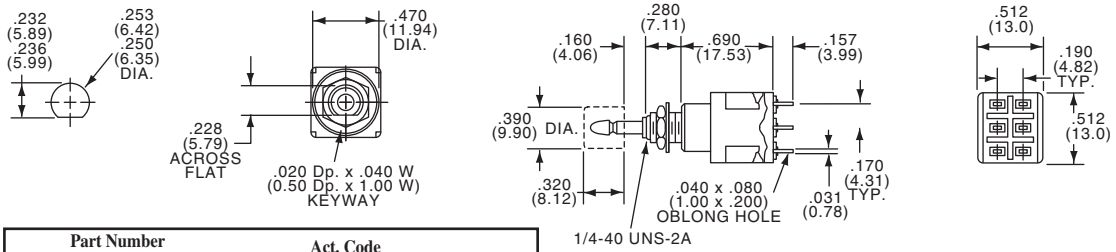



MPE106D

Part Number			Act. Code	
Tyco Electronics	Alcoswitch	Type	P. M6	Action
4-1437567-2	MPE106D	SPDT	23	Push on/Push off
4-1437567-3	MPE106F	SPDT	19	Momentary

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

DPDT

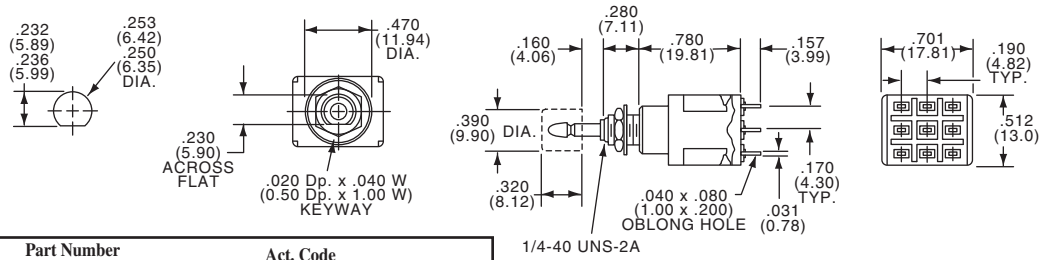



MPE206N

Part Number			Act. Code	
Tyco Electronics	Alcoswitch	Type	P. M6	Action
4-1437567-4	MPE206N	DPDT	24	Push on/Push off
4-1437567-5	MPE206R	DPDT	20	Momentary

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

3PDT

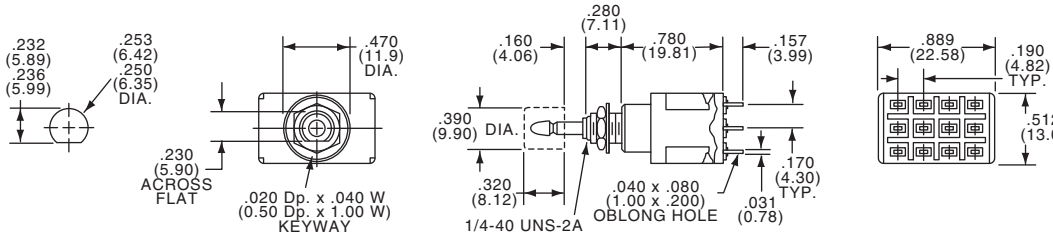



MPE306F

Part Number			Act. Code	
Tyco Electronics	Alcoswitch	Type	P. M6	Action
—	MPE306D	3PDT	25	Push on/Push off
4-1437567-6	MPE306F	3PDT	21	Momentary

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

4PDT




MPE406N

Part Number			Act. Code	
Tyco Electronics	Alcoswitch	Type	P. M6	Action
4-1437567-7	MPE406N	4PDT	26	Push on/Push off
4-1437567-8	MPE406R	4PDT	22	Momentary

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, 15/32 Bushing, Mustang, Wire Lug or PC Tails, 6 Amp

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper with gold flash
Case Material .....Thermoset
Terminals .....Copper with gold flash finish
Terminal Seal .....Molded in

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40F to +176°F (-40°C to +80°C)
Solder Heat Resistance .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

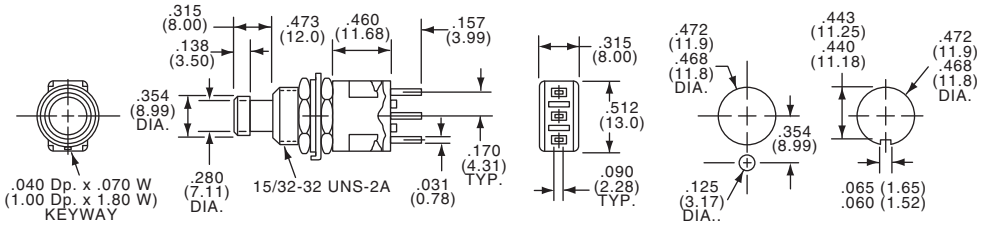
Contact Rating .....6 A @ 125 VAC, 3 A @ 250 VAC
Initial Contact Resistance .....10 Milliohms max.
Contact Timing .....Break-before-make
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....1,500 Volts RMS @ sea level
Actuation Force .....1.3 to 2.7 lbs.
Actuator Travel.....138" (3.51)
Life Expectancy .....Up to 50,000 Actuations
Note: Hardware included with switches

SPDT

Black Cap supplied.



MPG106D



Other Caps Available, order separately (See Cap Model C9 on page D32.)

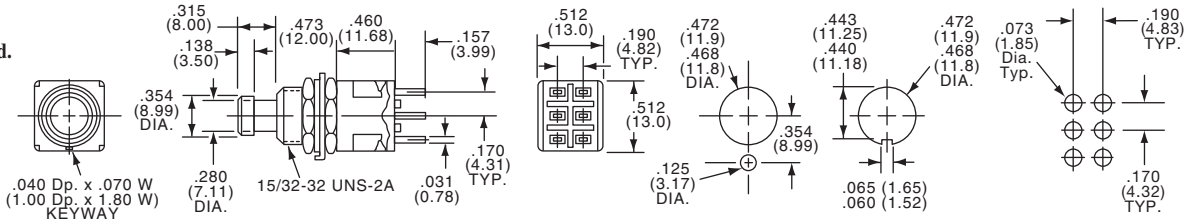
Part Number					
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Terminals
4-1437567-9	MPG106D	SPDT	23	Push on/Push off	Wire Lug
5-1437567-0	MPG106F	SPDT	19	Momentary	Wire Lug

DPDT

Black Cap supplied.



MPG206NPC



Other Caps Available, order separately (See Cap Model C9 on page D32.)

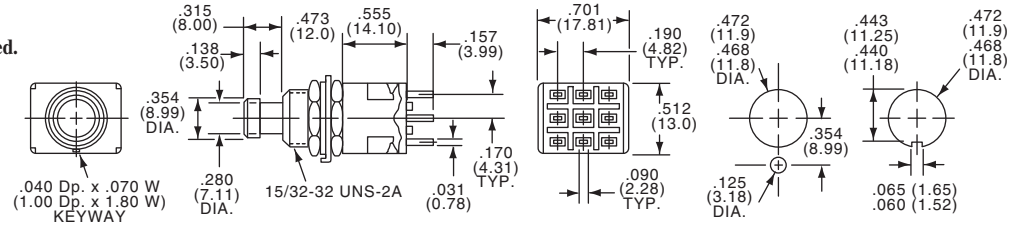
Part Number			Act. Code		
Tyco Electronics	Alcoswitch	Type	P. M6	Action	Terminals
5-1437567-1	MPG206N	DPDT	24	Push on/Push off	Wire Lug
5-1437567-3	MPG206R	DPDT	20	Momentary	Wire Lug
5-1437567-2	MPG206NPC	DPDT	24	Push on/Push off	PC
5-1437567-4	MPG206RPC	DPDT	20	Momentary	PC

3PDT

Black Cap supplied.



MPG306D



Other Caps Available, order separately (See Cap Model C9 on page D32.)

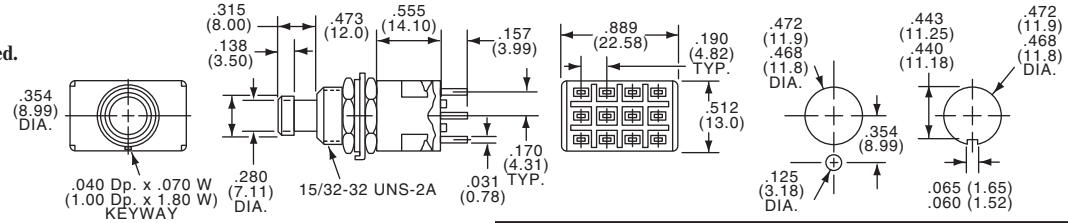
Part Number					
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Terminals
5-1437567-5	MPG306D	3PDT	25	Push on/Push off	Wire Lug
5-1437567-6	MPG306F	3PDT	21	Momentary	Wire Lug

4PDT

Black Cap supplied.



MPG406N



Other Caps Available, order separately (See Cap Model C9 on page D32.)

Part Number					
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Terminals
5-1437567-7	MPG406N	4PDT	25	Push on/Push off	Wire Lug
5-1437567-8	MPG406R	4PDT	21	Momentary	Wire Lug

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Snap Action, Wire Lug, 3 Amp

MATERIAL SPECIFICATIONS:

Contacts .....Silver
Case Material .....Epoxy resin
Actuator Material .....Copper alloy, nickel plate
Terminals .....Silver
Terminal Seal .....Epoxy

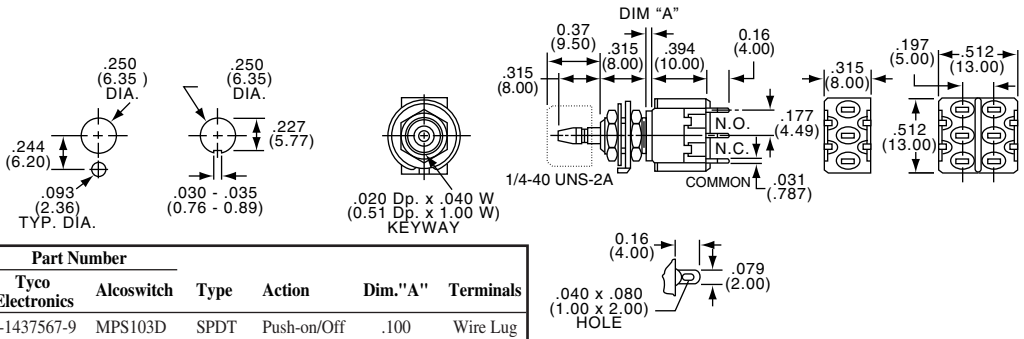
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+5°F to +158°F (-15°C to +70°C)
Storage Temperature.....+5°F to +158°F (-15°C to +70°C)
Solder Heat Resistance .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....3 A @ 115 VAC or 28 VDC
Initial Contact Resistance.....10 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuation Force .....Single pole - 7 to 14 oz. (200 to 400 grams)
Double pole - 14 to 25 oz. (400 to 700 grams)
Actuator Travel.....Momentary .040" (1.02)
Push on/off .098" (2.49)
Life Expectancy .....Up to 50,000 Actuations

SPDT/DPDT



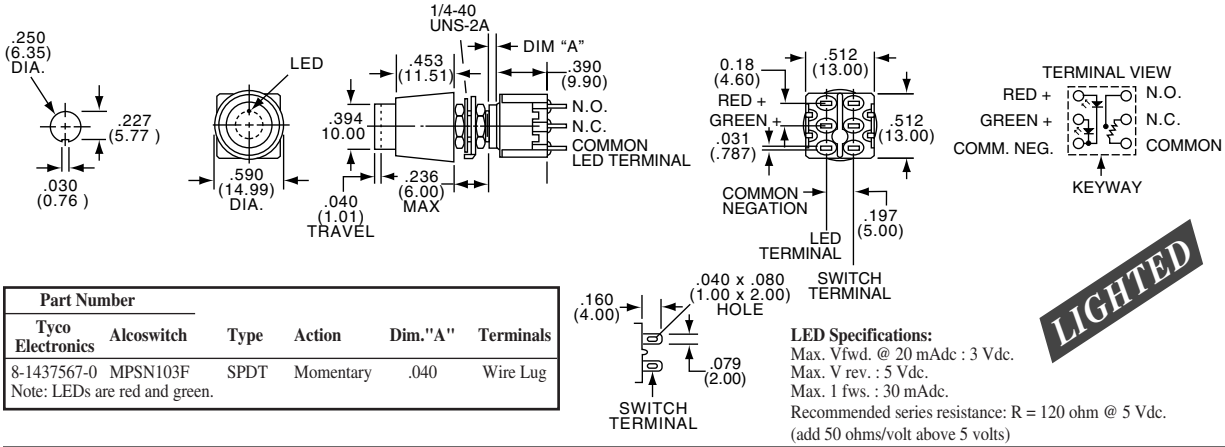


MPS203R MPS103F

Part Number					
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Terminals
5-1437567-9	MPS103D	SPDT	Push-on/Off	.100	Wire Lug
6-1437567-3	MPS103F	SPDT	Momentary	.040	Wire Lug
6-1437567-8	MPS203N	DPDT	Push-on/Off	.100	Wire Lug
7-1437567-2	MPS203R	DPDT	Momentary	.040	Wire Lug

Note: Hardware included with switches
Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)

SPDT





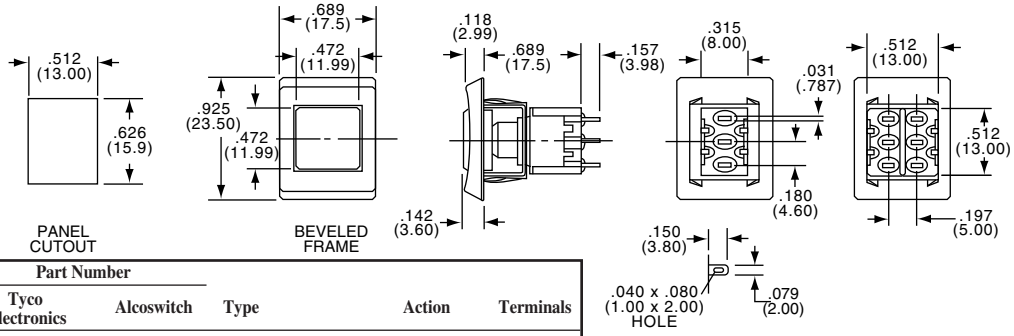
MPSN103F

LIGHTED

Part Number					
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Terminals
8-1437567-0	MPSN103F	SPDT	Momentary	.040	Wire Lug
Note: LEDs are red and green.					

LED Specifications:
Max. Vfwd. @ 20 mAdc : 3 Vdc.
Max. V rev. : 5 Vdc.
Max. I fws. : 30 mAdc.
Recommended series resistance: R = 120 ohm @ 5 Vdc.
(add 50 ohms/volt above 5 volts)

SPDT/DPDT





MPSR103F



MPSR203R

Part Number				
Tyco Electronics	Alcoswitch	Type	Action	Terminals
8-1437567-1	MPSR103F	SPDT	Momentary	Wire Lug
8-1437567-2	MPSR203R	DPDT	Momentary	Wire Lug
	Model	**Description**		**Color**
2-1437628-2	SDR0	Plastic beveled frame		Black
5-1437627-5	C330	Square button for MPSR		Black
5-1437627-6	C332	Square button "		Red
5-1437627-8	C339	Square button "		White

C-33(*) Button not supplied, Plastic (black) beveled edged frame Model SDRO, not supplied. ORDER SEPARATELY

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UK: 44-141-810-8967

Pushbutton Switches, Snap Action, PC or Wire Wrap Tails, 3 Amp

SPDT/DPDT

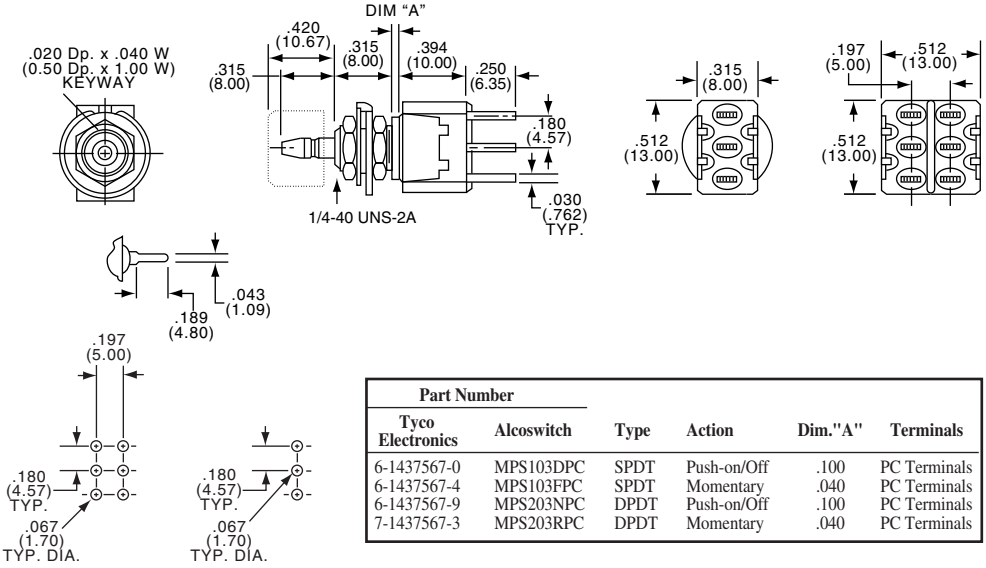
SEE PAGE D25 FOR PRODUCT SPECIFICATIONS



MPS103FPC



MPS203RPC



Part Number					
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Terminals
6-1437567-0	MPS103DPC	SPDT	Push-on/Off	.100	PC Terminals
6-1437567-4	MPS103FPC	SPDT	Momentary	.040	PC Terminals
6-1437567-9	MPS203NPC	DPDT	Push-on/Off	.100	PC Terminals
7-1437567-3	MPS203RPC	DPDT	Momentary	.040	PC Terminals

Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)

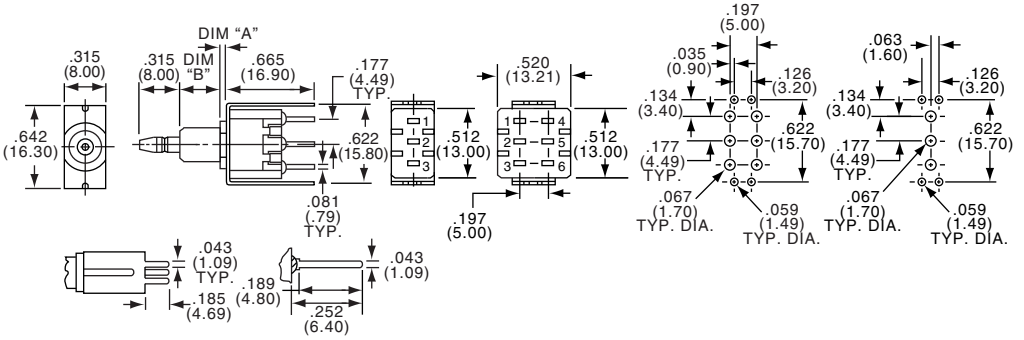
SPDT/DPDT



MPS103FPCV



MPS203RPCV



Part Number						
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Dim."B"	Terminals
6-1437567-1	MPS103DPCV	SPDT	Push-on/Off	.080(2.03)	.315(8.00)	PC w/support
6-1437567-5	MPS103FPCV	SPDT	Momentary	.040(1.01)	.295(7.49)	PC w/support
7-1437567-4	MPS203RPCV	DPDT	Momentary	.040(1.01)	.295(7.49)	PC w/support

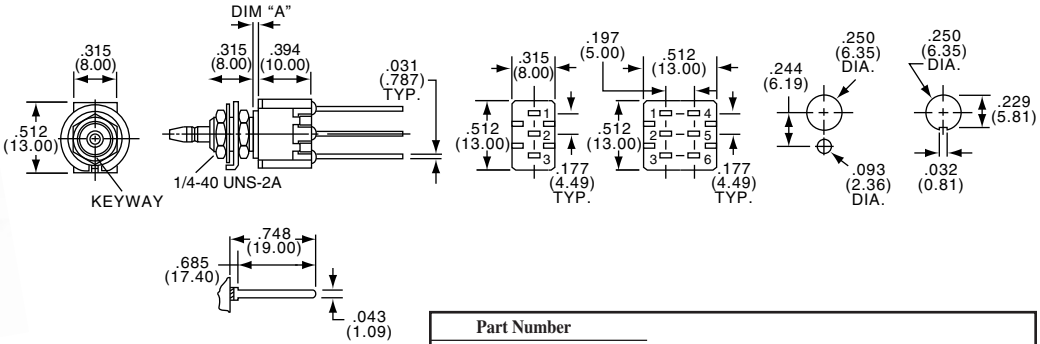
Caps not supplied, order separately.
(See Cap Model C22 and C23 on Page D32.)

SPDT/DPDT



MPS103FWW

MPS203RWW



Part Number					
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Terminals
6-1437567-7	MPS103FWW	SPDT	Momentary	.040(1.01)	Extended PC
—	MPS203NWW	DPDT	Push-on/Off	.100(2.54)	Extended PC
7-1437567-6	MPS203RWW	DPDT	Momentary	.040(1.01)	Extended PC

Caps not supplied, order separately.
(See Cap Model C22 and C23 on Page D32.)

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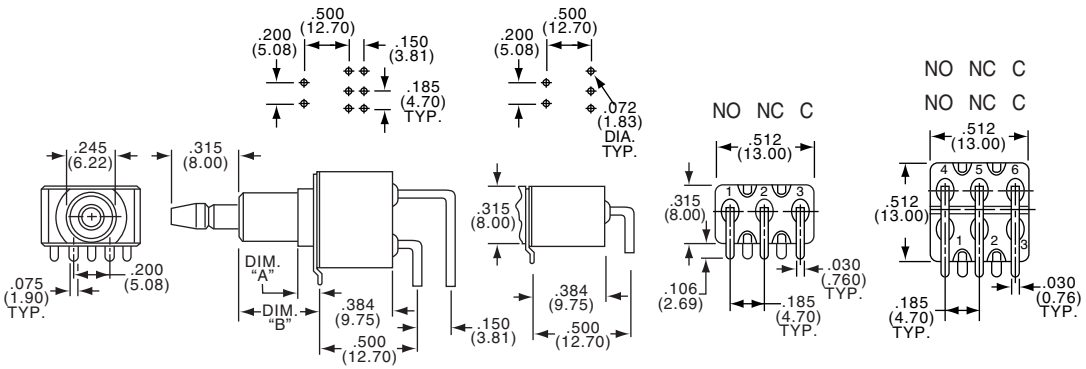
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Snap Action, Right Angle, 3 Amp

SEE PAGE D25 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT



MPS103DRA



MPS203NRA

Part Number						
Tyco Electronics	Alcoswitch	Type	Action	Dim."A"	Dim."B"	Terminals
6-1437567-2	MPS103DRA	SPDT	Push-on/Off	.100(2.54)	.423(10.7)	Right Angle PC
6-1437567-6	MPS103FRA	SPDT	Momentary	.060(1.52)	.364(9.24)	Right Angle PC
7-1437567-1	MPS203NRA	DPDT	Push-on/Off	.100(2.54)	.423(10.7)	Right Angle PC
7-1437567-5	MPS203RRA	DPDT	Momentary	.060(1.52)	.364(9.24)	Right Angle PC

Caps not supplied, order separately.
(See Cap Model C22 and C23 on Page D32.)

MSP3/MSPS

Pushbutton Switches, 2.5mm Travel, Panel Mount

MATERIAL SPECIFICATIONS:

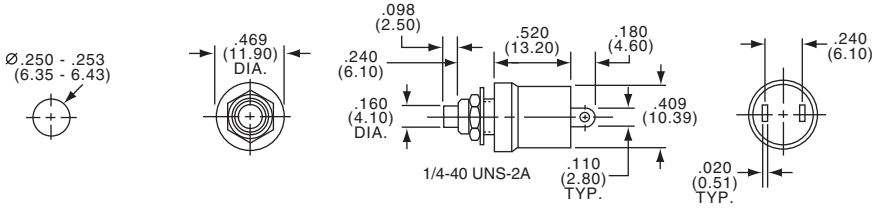
Contacts .....Silver plate over copper alloy
Case Material .....Thermoplastic
Actuator Material .....Thermoplastic
Terminals .....Silver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....+5°F to +153°F (-15°C to +75°C)
Solder Heat Resistance .....See page M3-4
Note: Hardware included with switches

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....MSP103 - 3 Amps @ 125 VAC (with over travel) .059" (1.5mm)
MSPS103 - 0.5 Amps @ 125 VAC (Butt contact)
Initial Contact Resistance .....100 Milliohms
Contact Timing .....Break-before-make
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Life Expectancy .....Up to 10,000 Cycles
Travel .....2.5 mm



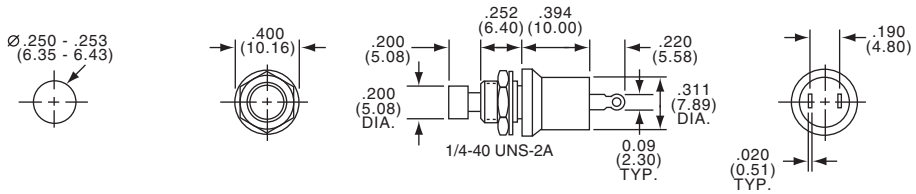
SPST



MSP103B

3 AMPS

Part Number						
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Momentary Action	Bushing Length	Actuator Color
8-1437567-3	MSP103B	SPST	14	Normally Closed	.236	Black
8-1437567-4	MSP103C	SPST	13	Normally Open	.236	Red
8-1437567-5	MSP103C0	SPST	13	Normally Open	.236	Black
8-1437567-6	MSP103C2	SPST	13	Normally Open	.374	Red





MSPS103B

0.5 AMPS

Part Number						
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Momentary Action	Bushing Length	Actuator Color
1437568-5	MSPS103B	SPST	14	Normally Closed	.245	Black
1437568-6	MSPS103C2	SPST	13	Normally Open	.245	Red
1437568-7	MSPS103C0	SPST	13	Normally Open	.245	Black

Catalog 1308390
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USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Front or Rear Entry Mount, 15/32 Bushing

MATERIAL SPECIFICATIONS:

Contacts .....Silver plate
Case Material .....Thermoset
Actuator Material .....Thermoplastic
Terminals .....Silver plate
Terminal Seal .....Epoxy

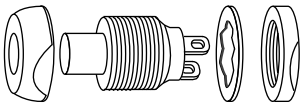
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-4F to +176°F (-20°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.5 A @ 125 VAC
Initial Contact Resistance.....100 Milliohms
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuator Travel.....098" (2.49)
Life Expectancy .....Up to 10,000 Cycles

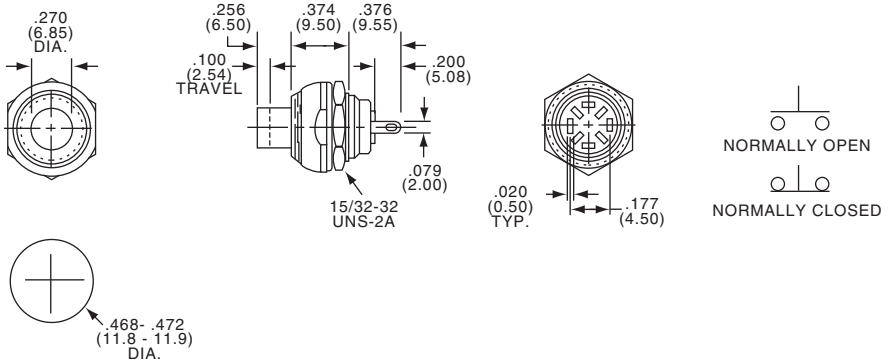
Application Note: Illustration shows versatile front or rear entry usage, with hardware supplied.



SPST



MSPF101B

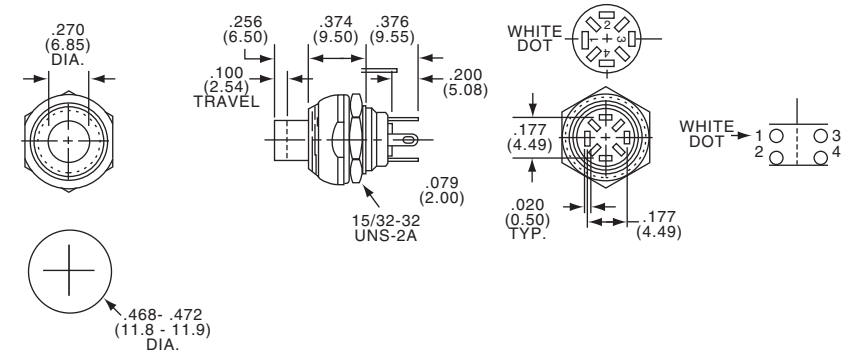


Part Number				
Tyco Electronics	Alcoswitch	Type	Action	Actuator Color
8-1437567-8	MSPF101B	SPST	Normally Closed	Black
9-1437567-3	MSPF101C	SPST	Normally Open	Red

2 CIRCUIT



MSPF101BC



Part Number				
Tyco Electronics	Alcoswitch	Type	Action	Actuator Color
8-1437567-9	MSPF101BC0	2 Circuit	Normally open-normally closed	Black
9-1437567-0	MSPF101BC2	2 Circuit	Normally open-normally closed	Red
9-1437567-1	MSPF101BC6	2 Circuit	Normally open-normally closed	Blue
9-1437567-2	MSPF101BC9	2 Circuit	Normally open-normally closed	White

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Magnetic Reed, Long Life, Hermetically Sealed

MATERIAL SPECIFICATIONS:

Contacts .....Gold
Case Material .....Steel
Actuator Material .....Polyamide
Terminals/Fixed Contacts.....Wire Lug
Pin useable for PC applications

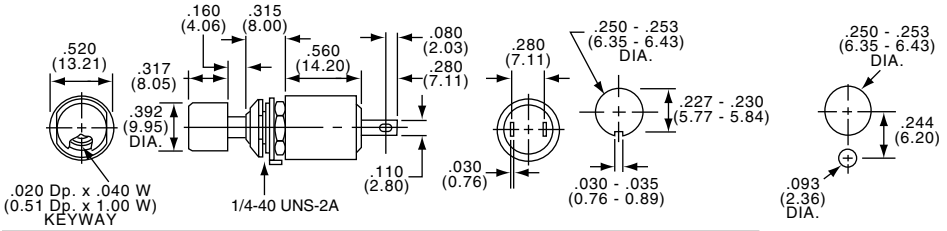
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +176°F (-10°C to +80°C)
Storage Temperature.....+14°F to +176°F (-10°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating.....1.0 VA optimum (100 mA max., 100 VDC max.)
Initial Contact Resistance .....100 Milliohms max.
Actuation Force.....Tactile "keyboard feel" 4 to 7 oz.
"breakaway" reducing immediately to 1.5 oz.
"follow-through"
Actuator Travel .....078" nominal
Life Expectancy.....Up to 5,000,000 Cycles @ .1 VA; 50,000 cycles @ 5VA
Solder Heat Resistance .....See page M3-4
Note: Hardware included with switches

N.C. OR N.O. SOFT DETENT

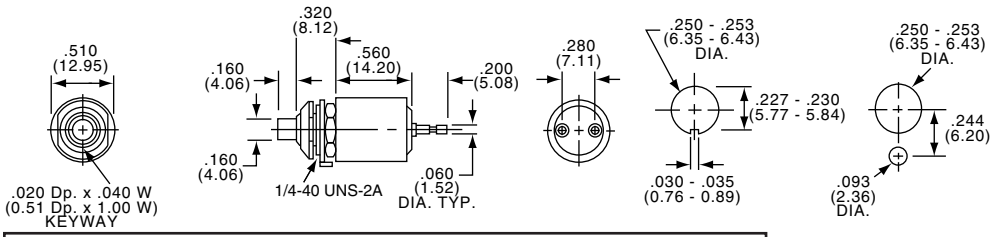




Part Number						
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Actuator Type	Terminals
9-1437567-4	MSPM101B0	SPST	14	Normally Closed	Black Cap	Pin
1437568-1	MSPM101C2	SPST	13	Normally Open	Red Cap	Pin
9-1437567-5	MSPM101B1	SPST	14	Normally Closed	Black Cap	Lug
9-1437567-9	MSPM101C1	SPST	13	Normally Open	Red Cap	Lug

Cap Model C22 supplied with unit.

N.C. OR N.O. AUDIBLE DETENT





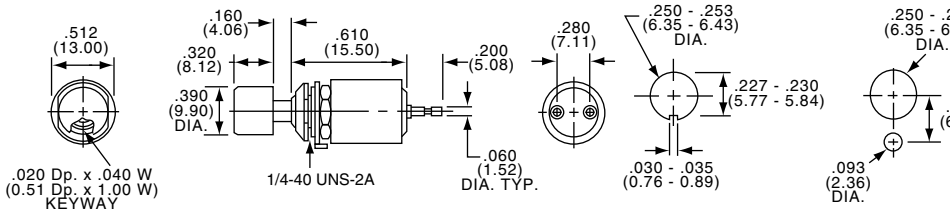
Part Number						
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Actuator Type	Terminals
9-1437567-7	MSPM101BS	SPST	14	Normally Closed	Black Plunger	Pin
1437568-3	MSPM101CS	SPST	13	Normally Open	Red Plunger	Pin
9-1437567-8	MSPM101BS1	SPST	14	Normally Closed	Black Plunger	Lug
1437568-4	MSPM101CS1	SPST	13	Normally Open	Red Plunger	Lug

Pushbutton Switches, Push-Pull, Magnetic Reed, Long Life, Hermetically Sealed

SPECIFICATIONS (Same as above except):

Travel ..... .125" (3.18) nominal
Actuation Force .....Tactile feel 5 to 8 oz. "breakaway" with magnetically accelerated "follow-through"

N.C. OR N.O.





Part Number							
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Push	Pull	Actuator Type	Terminals
9-1437567-6	MSPM101BP	SPST	18	Open	Closed	Black Cap	Pin
1437568-2	MSPM101CP	SPST	17	Closed	Open	Red Cap	Pin

Cap Model C22 supplied with unit.
Model C23 available, order separately. (See Page D32.)

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UK: 44-141-810-8967

Push Switch, JLS Series

MATERIAL SPECIFICATIONS:

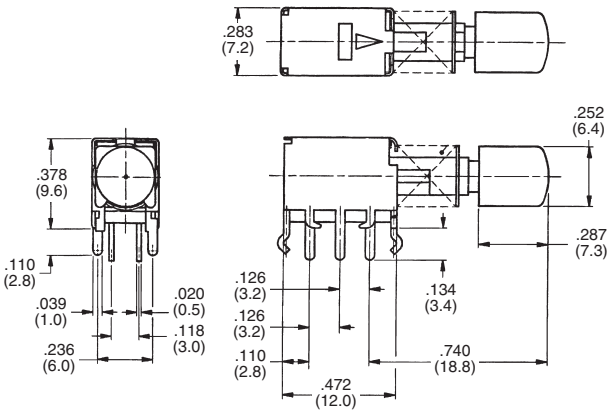
Contacts .....Silver clad copper
Frame .....Steel
Actuator Material .....Acetal
Terminals/Fixed Contacts.....Brass, silver plate
Insulator .....Phenol

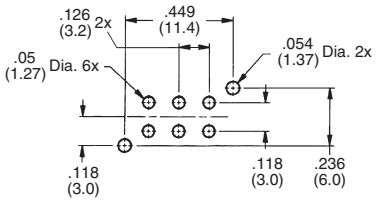
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating.....1 Amp @25 VDC
Initial Contact Resistance .....100 Milliohms
Actuation Force.....300±150 gms
Actuator Travel 0.091 (2.3)
Life Expectancy.....Up to 10,000 cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)







Part Number		Act. Code P. M6	Actuator Type
Tyco Electronics	Alcoswitch		
1437566-8	JLS91439FKBC	N	Black Cap
1437566-7	JLS91439FK	N	Gray Cap
1437566-9	JLS91439FWC	N	White Cap

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Pushbutton Switches, Splashproof Boot Seals

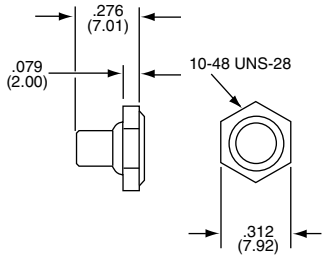
A wide selection of stock boot seals for pushbuttons are available in a variety of styles and thread sizes. ALCOSWITCH seals replace standard mounting hardware to provide environmental seal. Fabricated of Neoprene in black and optional red or gray. Custom colors and thread sizes are also available on special order.

10-48 PUSHBUTTON BOOT SEALS



BP10480

Splashproof seal designed for "TINY" pushbutton switches having a 10-48 bushing and .14" long button actuators. The hex nut is molded-in to the Neoprene seal. No O-Ring is required. Custom colors are available on special order.



Part Number					
Tyco Electronics	Alcoswitch	Mount Color	Boot Color	Thread Size	Use with Switch Types
1-1437626-4	BP10480	Black	Black	10-48	TP Series
1-1437626-5	BP10482	Red	Red	10-48	TP Series
1-1437626-6	BP10488	Gray	Gray	10-48	TP Series

1/4-40 PUSHBUTTON BOOT SEALS

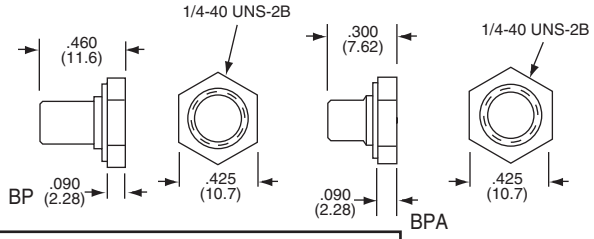


BPA14400



BP14400

Splashproof seals for miniature pushbuttons having a 1/4-40 bushing. The two models allow use with buttons that extend up to .17" (BPA) or up to .33"(BP). The hex nut is molded-in and no O-Ring is required.



Part Number					
Tyco Electronics	Alcoswitch	Mount Color	Boot Color	Thread Size	Use with Switch Types
1-1437626-7	BP14400	Black	Black	1/4-40	MSPM, MPA3, MPS and TP Series
1-1437626-8	BP14402	Red	Red	1/4-40	MSPM, MPA3, MPS and TP Series
1-1437626-9	BP14408	Gray	Gray	1/4-40	MSPM, MPA3, MPS and TP Series
2-1437626-7	BPA14400	Black	Black	1/4-40	MSPMBS, MSPMCS, MSP3,MPA3, TP Series
2-1437626-8	BPA14402	Red	Red	1/4-40	MSPMBS, MSPMCS, MSP3, MPA3, TP Series
2-1437626-9	BPA14408	Gray	Gray	1/4-40	MSPMBS, MSPMCS, MSP3, MPA3, TP Series

1/4-40 PUSHBUTTON BOOT SEALS

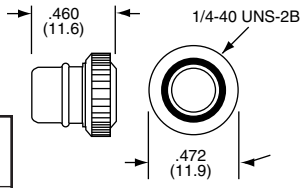


BP20100



BP1900

Splashproof seals having 1/4-40 blind nuts integrally mounted to the black Neoprene seal. Supplied with a captive O-Ring to complete the panel seal. Used with actuators up to .37" long. Choice of two-tone with nickel finish knurled ring or all black.



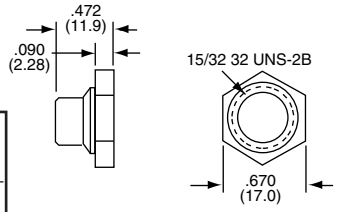
Part Number					
Tyco Electronics	Alcoswitch	Mount Color	Boot Color	Thread Size	Use with Switch Types
2-1437626-3	BP1900	Nickel	Black	1/4-40	MSPM, MSP3, MPA3 and TP Series
2-1437626-4	BP2010	Black	Black	1/4-40	MSPM, MSP3, MPA3 and TP Series

15/32-32 PUSHBUTTON BOOT SEALS



BP15320

Splashproof seals incorporating a molded-in hex nut for water tight and dust tight protection. Replaces standard hardware usually supplied. Recommended for large size pushbutton switches with actuators extending up to .31" long.



Part Number					
Tyco Electronics	Alcoswitch	Mount Color	Boot Color	Thread Size	Use with Switch Types
2-1437626-0	BP15320	Black	Black	15/32-32	MSPF and MPG Series
2-1437626-1	BP15322	Red	Red	15/32-32	MSPF and MPG Series
2-1437626-2	BP15328	Gray	Gray	15/32-32	MSPF and MPG Series

15/32-32 PUSHBUTTON BOOT SEALS

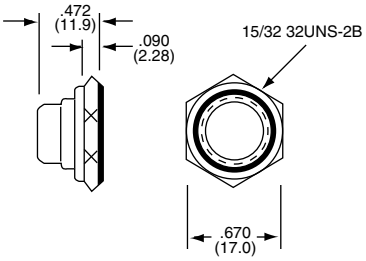


BP5900



BP5890

Splashproof seals having 15/32-32 hex shape mounts integrally bonded onto the black Neoprene seal. Supplied with a captive O-Ring for use against the panel. Readily accepts actuators up to .38" in length. Available in two tone with nickel finish hex-mount, or all black.



Part Number					
Tyco Electronics	Alcoswitch	Mount Color	Boot Color	Thread Size	Use with Switch Types
2-1437626-5	BP5890	Nickel	Black	15/32-32	MSPF and MPG Series
2-1437626-6	BP5900	Black	Black	15/32-32	MSPF and MPG Series

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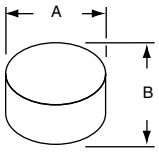
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Pushbutton Switches, Accessories

CAPS





C5 C22

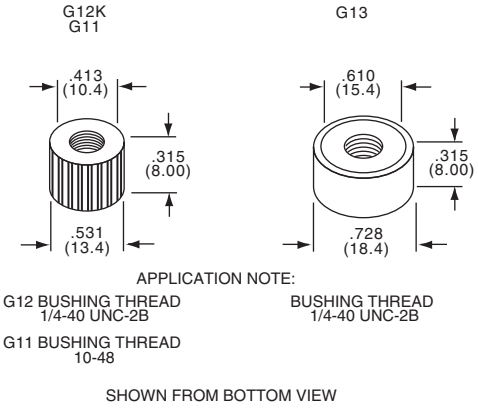
Model	ID.	Description	Use Guard	Color	"A" Diameter	B Height
C5(*)	Snapfit	Small plastic cap for MPA3 Series	-	(0), (2), (5), (9)	.195	.120
C8(*)	Snapfit	Large plastic cap for MPA3 Series	-	(0), (2), (5), (9)	.310	.160
C9(*)	Snapfit	Spare color cap for MPG Series	-	(0), (2), (6), (9)	.354	.138
C22(*)	Snapfit	MPS/MSPM/MPE/MPA6	G12	(0), (2), (3), (4), (5), (6),(9)	.394	.315
C23(*)	Snapfit	MPS/MSPM/MPE/MPA6	G13	(0), (2), (3), (4), (5), (6), (9)	.590	.394
C33(*)	Snapfit	Square button for MPSR	-	(0), (2), (6), (9)	.378SQ.	.201

(*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.

GUARDS

Part Number					Can be Used with Cap	
Tyco Electronics	Alcoswitch	Type	Color	Finish		
7-1437627-6	G11A	10-48	Clear aluminum	Plain	C22	—
7-1437627-7	G11B	10-48	Black aluminum	Plain	C22	—
7-1437627-8	G11C	10-48	Chromed Brass	Plain	C22	—
8-1437627-1	G12A	1/4-40	Clear aluminum	Plain	C12	C22
8-1437627-2	G12B	1/4-40	Black aluminum	Plain	C12	C22
8-1437627-3	G12C	1/4-40	Chromed brass	Plain	C12	C22
8-1437627-4	G12KA	1/4-40	Clear aluminum	Knurled	C12	C22
8-1437627-5	G12KB	1/4-40	Black aluminum	Knurled	C12	C22
8-1437627-6	G12KC	1/4-40	Chromed brass	Knurled	C12	C22
8-1437627-7	G13A	1/4-40	Clear aluminum	Plain	C13	C23
8-1437627-8	G13B	1/4-40	Black aluminum	Plain	C13	C23
8-1437627-9	G13C	1/4-40	Chromed brass	Plain	C13	C23
9-1437627-0	G13KA	1/4-40	Clear aluminum	Knurled	C13	C23
9-1437627-1	G13KB	1/4-40	Black aluminum	Knurled	C13	C23
9-1437627-2	G13KC	1/4-40	Chromed brass	Knurled	C13	C23
9-1437627-3	G15*	15/32"	Chromed brass	Plain		

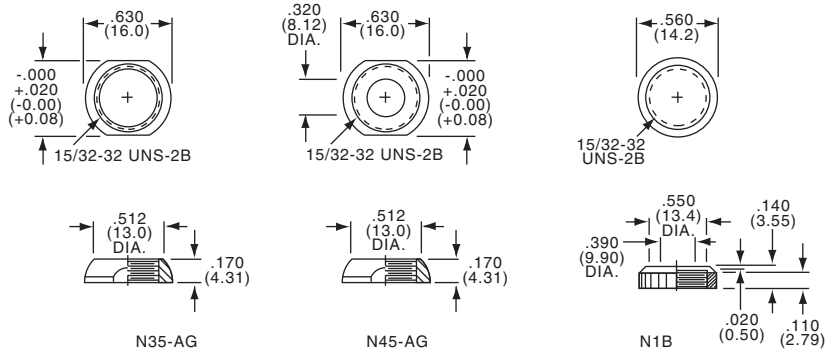
*G15 Model used on the MSPF Series





G12K G13

DECORATIVE HARDWARE





N35-AG N1B

N45-AG

Part Number			
Tyco Electronics	Alcoswitch	Type	Description
1-1437628-0	N1B	15/32"	"Perfect Fit" knurled nut
1-1437628-4	N35-AG	15/32"	Decorative nut (supplied on switch)
1-1437628-7	N45-AG	15/32"	"Perfect Fit" decorative nut

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Pushbutton Switches, Panel Seal

FEATURES

The BP Series offers a unique means of sealing pushbutton switches, using a standard 1/4-40 threading bushing, to almost any thickness panel. Simply install the BP adaptor into a 15/32" dia. or 1/2" dia. panel opening and secure with its hex nut. The switch is then threaded into the previously mounted adaptor and tightened into place. A complete and decorative panel seal is the result of the simple process.

MATERIALS

The flexible panel seal is custom molded of Neoprene rubber for long life, flexibility and chemical resistance. The threaded plastic adaptor is molded of ABS thermoplastic, is impact resistant and designed for ease of mounting.

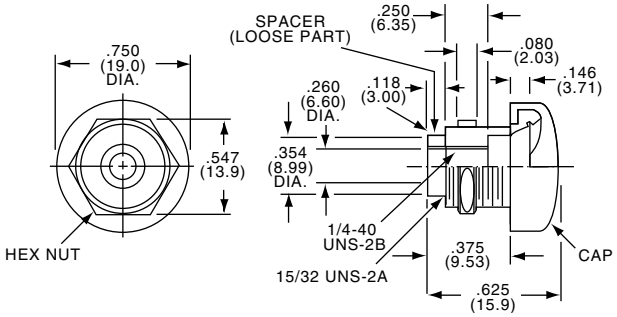
BPM

For use with Miniature Pushbutton

The BPM seal adaptor accommodates all AUGAT/ALCOSWITCH MPA Series of pushbutton switches utilizing the 1/4-40 threaded bushing.



BPM15320



Part Number		
Tyco Electronics	Alcoswitch	Color* of Seal
3-1437626-0	BPM15320	Black
3-1437626-1	BPM15322	Red
3-1437626-2	BPM15328	Gray

(*) Custom seal colors are available upon special request.

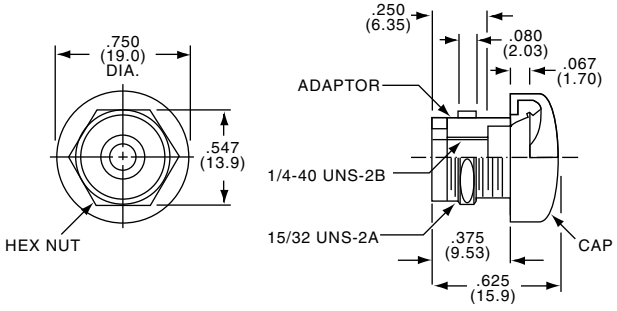
BPT

For use with Tiny Series TPF Pushbutton

The BPT seal adaptor accommodates all AUGAT/ALCOSWITCH TPF Series Tiny Pushbutton switches utilizing the 1/4-40 threading bushing.



BPT15328



Part Number		
Tyco Electronics	Alcoswitch	Color* of Seal
3-1437626-3	BPT15320	Black
3-1437626-4	BPT15322	Red
3-1437626-5	BPT15328	Grey

(*) Custom seal colors are available upon special request.

Catalog 1308390
Issued 9-04

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USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
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UK: 44-141-810-8967

Engineering Notes

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Pushbutton



TSP Series - Page D3



TP Series - Page D6



TP-ES Series - Page D13



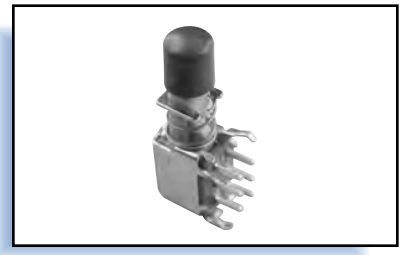
APA Series - Page D16



MPA Series - Page D22



MSPM Series - Page D29



JLS Series - Page D29



BP Series - Page D31

D

Pushbutton Switches

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D

Pushbutton Switches

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Pushbutton Switches, Tiny, Process Sealed

FEATURES:

- High temperature plastics — liquid crystal polymer (LCP)
- Specifically designed for thru-hole and surface mount
- Tin-lead plated terminals
- Washable process sealed construction — internal actuator O-ring

MATERIAL SPECIFICATIONS:

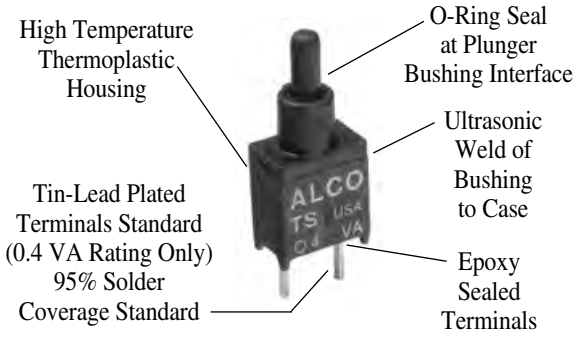
Contacts .....Copper Alloy with gold over nickel plating-
Case & Bushing .....Thermoplastic (LCP)
Actuator .....Glass reinforced nylon
Nickel Plating Inside .....Tin plating outside
Support Bracket .....Tin plated steel
Terminals .....Copper alloy with gold over nickel plating

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature..... -22°F to +185°F (-30°C to +85ºC)
Storage Temperature.....-67°F to +185°F (-55°C to +85ºC)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VAC/DC
Initial Contact Resistance.....20 Milliohms max.
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Terminal Seal .....Epoxy
Actuator Travel.....035" (0,89)
Actuator Seal .....O-Ring
Dielectric Strength .....C - 1000 VDC RMS @ sea level
F - 500 VDC RMS @ sea level
Life Expectancy .....C - Up to 80,000 Cycles
F - Up to 60,000 Cycles



FUNCTION CHART

The following functions available in single pole.

C Function	2 Positions	Off	(On)
SPST	Terminals Connected		1-3
Omit center terminal for function C			
F Function	2 positions	On	(On)
SPDT	Terminal Connected	1-2	2-3

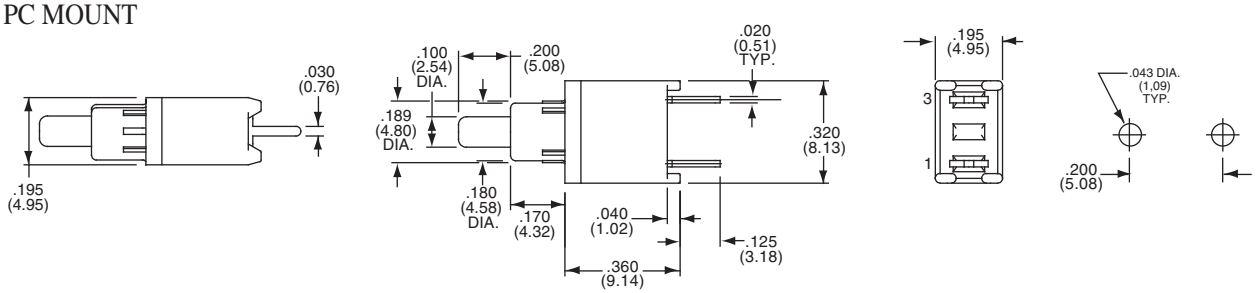
Off Indicates a mechanical position with no electrical connection.
(ON) INDICATES MOMENTARY ACTION

PART NUMBERING MATRIX

Model	Bushing (Plain)	Actuator	Poles	Rating	Function	Plating	Terminations	Colors
TSP	D		1	1		G		

Actuator: Std. .200" long; F = Flush
Function: C = Off (On); F = On (On)
Terminations: PC = P.C.; PCV = P .C. w/bracket; RA = Right Angle; VRA = Vertical Right Angle; SPC = SurfaceMount; SRA = Surface Mount R.A.; SRAB = SurfaceMount R.A. Butt
Colors: 0=Black; 2=Red

PC PC MOUNT



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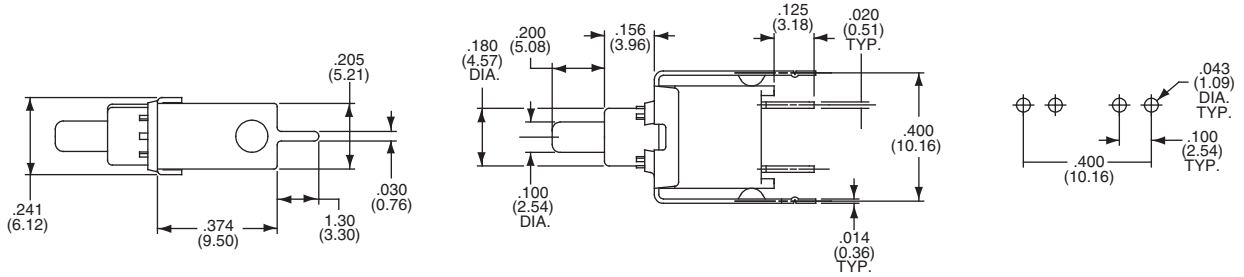
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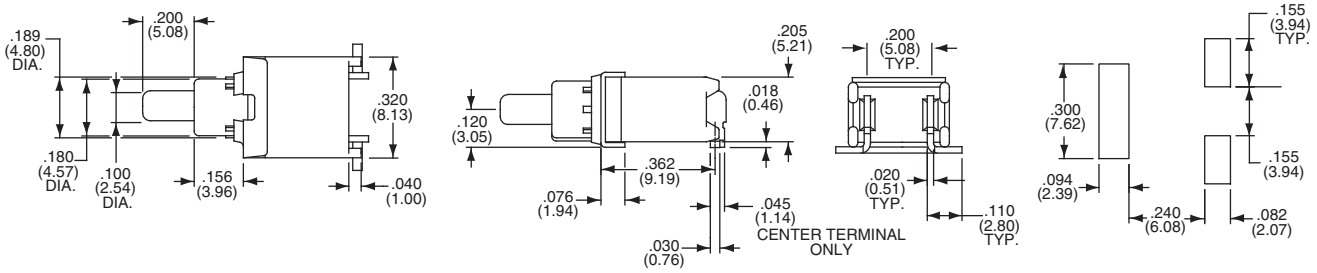
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Pushbutton Switches, Tiny, Process Sealed, Mounting Options

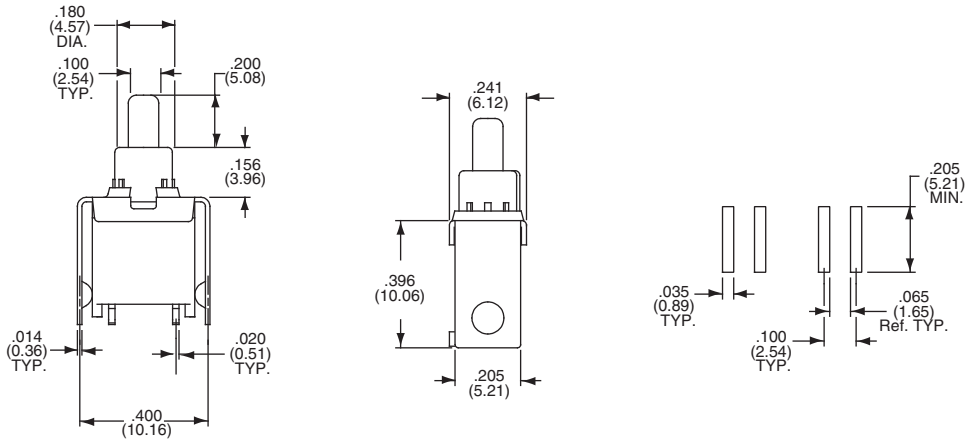
PCV PC WITH VERTICAL SUPPORT BRACKET



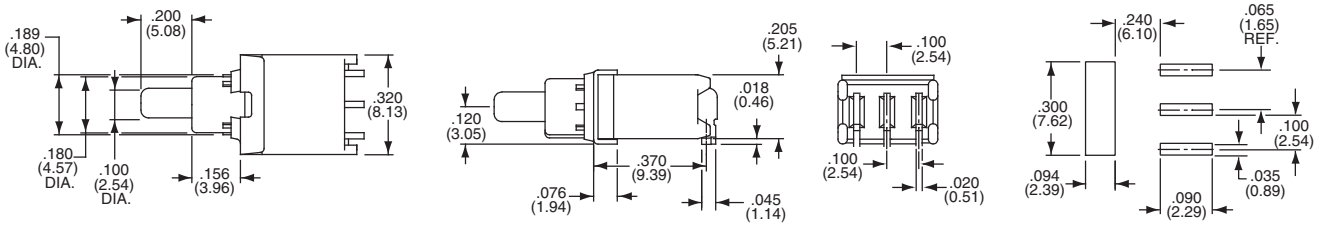
SRA SURFACE MOUNT RIGHT ANGLE "L" BEND



SPC SURFACE MOUNT WITH SUPPORT BRACKET



SRAB SURFACE MOUNT RIGHT ANGLE BUTT



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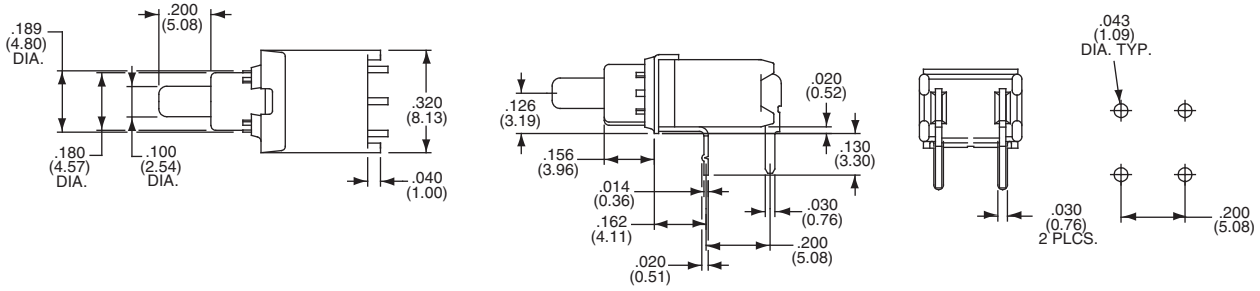
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C. America: 52-55-5-729-0425

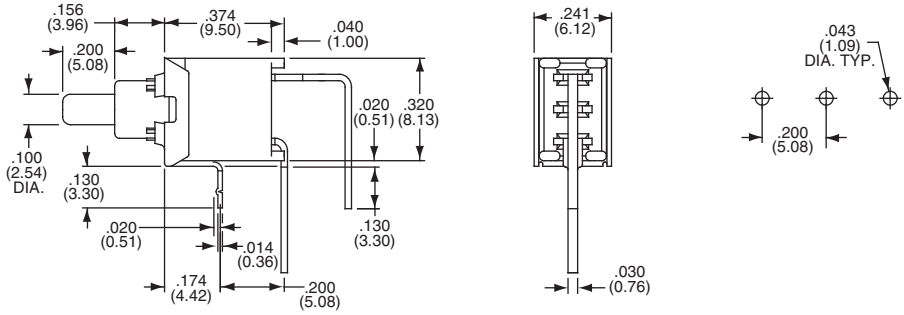
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Tiny, Process Sealed Options

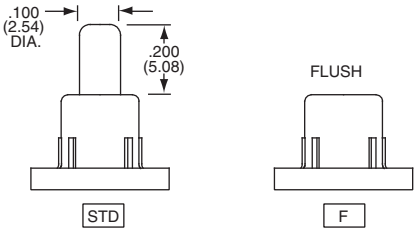
RIGHT ANGLE **RA**



PC WITH VERTICAL SUPPORT BRACKET **VRA**



ACTUATORS



Catalog 1308390
Issued 9-04

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UK: 44-141-810-8967

Pushbutton Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts .....Gold - gold plate, silver - silver plate
Case Material.....High temperature polyester
Actuator Material.....Polyamide
Terminals/Fixed Contacts .....Tin lead plate
Terminal Seal.....SP epoxy, DP epoxy optional

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-22°F to +149°F (-30°C to +65°C)
Storage Temperature .....-22°F to +149°F (-30°C to +65°C)
Solder Heat Resistance .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA Max. @ 20 VDC or peak AC
Silver: 1A @ 125 VAC or 28 VDC resistive
Initial Contact Resistance .....20 Milliohms max.
Contact Timing .....Break-before-make
Insulation Resistance.....1,000 Megohms @ 500VDC min.
Dielectric Strength.....1,000 Volts @ sea level
Actuation Force .....50 to 400 Grams
Plunger/Actuator Travel .....030" (.762)
Life Expectancy.....See below
Note: Hardware included with switches

PART NUMBERING MATRIX

Model TP

Bushing
Blank= Sq. No Bushing
A=Rnd. No Bushing
B=Rnd., .188" Bushing Dia. Unthreaded
C=Rnd., 10/48 Bushing Dia.
D=Rnd., .250" Bushing Dia. Unthreaded
F=Rnd., 1/4-40 Bushing Dia.

Actuator
F = Flush Actuator*

Poles
1 = Single
2 = Double

Rating
1 = Gold 0.4 VA
3 = Silver** 1 Amp

Function

SP	DP	
C	M	S.T. Momentary
F	R	D.T. Momentary

Plating
G = Gold
None = Silver**

Terminations
Blank=Wire lug
PC=Printed Circuit
RA=Right Angle***
VRA=Vertical Right Angle****

Process Seal
ES = Process Sealed***
Process Seal: Disposable boot, epoxied double case

Button Colors
0=Black
2=Red

* Available with “B” and "C" bushing only
** Silver - available only in wire lug and PC termination
*** Right angle, ES available with “B” and "C" bushing only
**** Available only in single pole

ES switches provided with disposable boot used only during cleaning operation.

Application Note:

For 3 pole and 4 pole, refer to pages D22 and D24 . . . “MP Series”
For Surface Mount termination, refer to pages D3-D5 . . . “TSP Series”

TP Series Life Expectancy Chart

Pushbuttons	1 Pole	2 Pole
0.4 (Gold Plate)	100,000	80,000
1A (Silver Plate)	60,000	50,000

PROCESS SEAL VERSION NOT



TP



TPA

PROCESS SEAL VERSION AVAILABLE

SERIES (TP)



TPB



TPC



TPD



TPF

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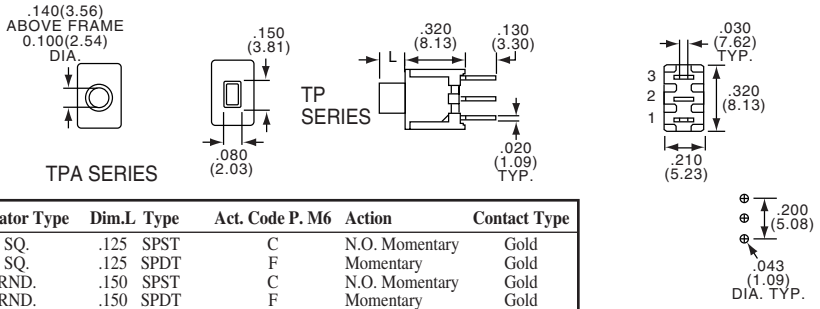
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Pushbutton Switches, Tiny, Straight or Right Angle, Single or Dual Actuators

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

SPST/SPDT



Model	Actuator Type	Dim.L	Type	Act. Code P. M6	Action	Contact Type
TP11CGPC(*)	SQ.	.125	SPST	C	N.O. Momentary	Gold
TP11FGPC(*)	SQ.	.125	SPDT	F	Momentary	Gold
TPA11CGPC(*)	RND.	.150	SPST	C	N.O. Momentary	Gold
TPA11FGPC(*)	RND.	.150	SPDT	F	Momentary	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

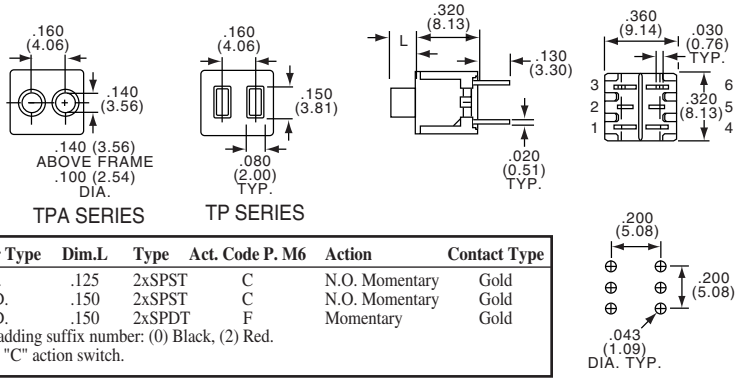


TP11CGPC0



TPA11CGPC0

SPST/SPDT (DUAL)



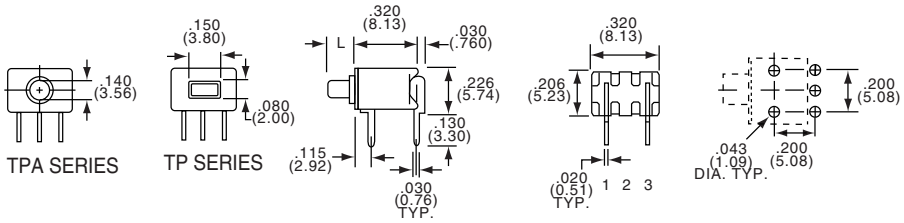
Model	Actuator Type	Dim.L	Type	Act. Code P. M6	Action	Contact Type
TP21CCGPC(*)	SQ.	.125	2xSPST	C	N.O. Momentary	Gold
TPA21CCGPC(*)	RND.	.150	2xSPST	C	N.O. Momentary	Gold
TPA21FFGPC(*)	RND.	.150	2xSPDT	F	Momentary	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



TP21CCGPC0

SPST/SPDT



Model	Actuator Type	Dim.L	Type	Act. Code P. M6	Action	Contact Type
TP11CGRA(*)	SQ.	.125	SPST	C	N.O. Momentary	Gold
TP11FGRA(*)	SQ.	.125	SPDT	F	Momentary	Gold
TPA11CGRA(*)	RND.	.150	SPST	C	N.O. Momentary	Gold
TPA11FGRA(*)	RND.	.150	SPDT	F	Momentary	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



TPA11CGRA



TP11CGRA

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Pushbutton Switches, Tiny, Right Angle, Single or Dual Actuators

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

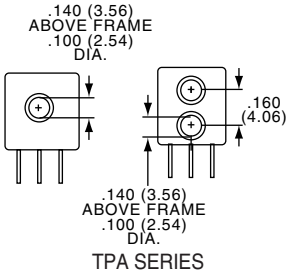
*** Refer to Page D6 for Additional Options ***

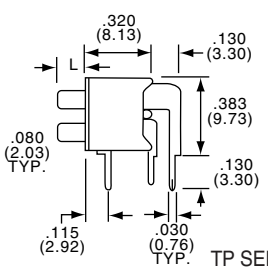
TP/TPA Series

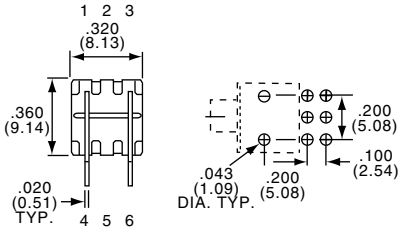


TP21CCGRA0

SPST/SPDT (DUAL)
DPST







Model	Actuator Type	Dim.L	Type	Act. Code P. M6	Action	Contact Type
TP21CCGRA(*)	SQ.	.125	2xSPST	C	N.O. Momentary	Gold
TP21FFGRA(*)	SQ.	.125	2xSPDT	F	Momentary	Gold
TPA21MGRA(*)	RND.	.150	DPST	M	N.O. Momentary	Gold
TPA21CCGRA(*)	RND.	.150	2xSPST	C	N.O. Momentary	Gold
TPA21FFGRA(*)	RND.	.150	2xSPDT	F	Momentary	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" or "M" action switch.

Pushbutton Switches, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushing

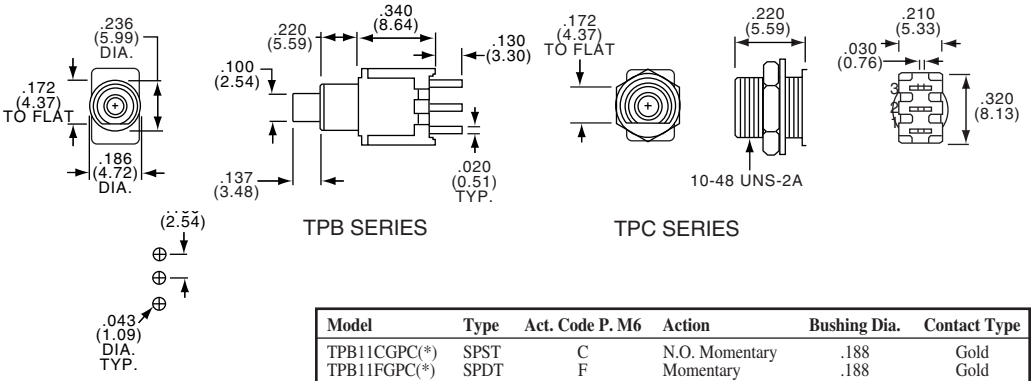
SPST/SPDT



TPB11CGPC



TPC11FGPC



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB11CGPC(*)	SPST	C	N.O. Momentary	.188	Gold
TPB11FGPC(*)	SPDT	F	Momentary	.188	Gold
TPC11CGPC(*)	SPST	C	N.O. Momentary	10-48	Gold
TPC11FGPC(*)	SPDT	F	Momentary	10-48	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

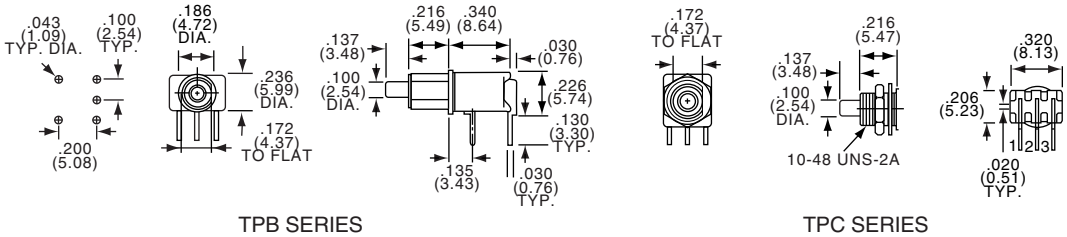
DPST/DPDT



TPB11CGRA



TPC11CGRA



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB11CGRA(*)	SPST	C	N.O. Momentary	.188	Gold
TPB11FGRA(*)	SPDT	F	Momentary	.188	Gold
TPC11CGRA(*)	SPST	C	N.O. Momentary	10-48	Gold
TPC11FGRA(*)	SPDT	F	Momentary	10-48	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

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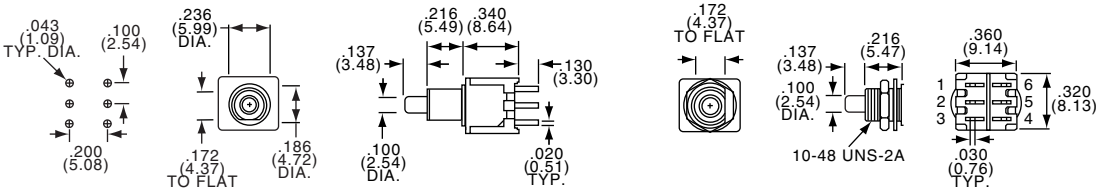
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Pushbutton Switches, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

DPST/DPDT



TPB SERIES

TPC SERIES



TPB21MGPC

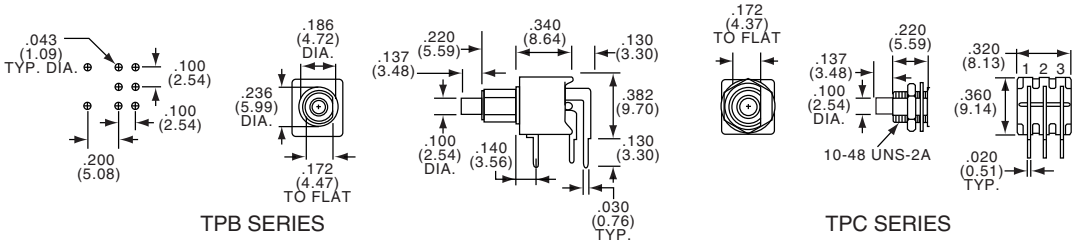


TPC21RGPC

Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB21MGPC(*)	DPST	M	N.O. Momentary	.188	Gold
TPB21RGPC(*)	DPDT	R	Momentary	.188	Gold
TPC21MGPC(*)	DPST	M	N.O. Momentary	10-48	Gold
TPC21RGPC(*)	DPDT	R	Momentary	10-48	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

DPST/DPDT



TPB SERIES

TPC SERIES

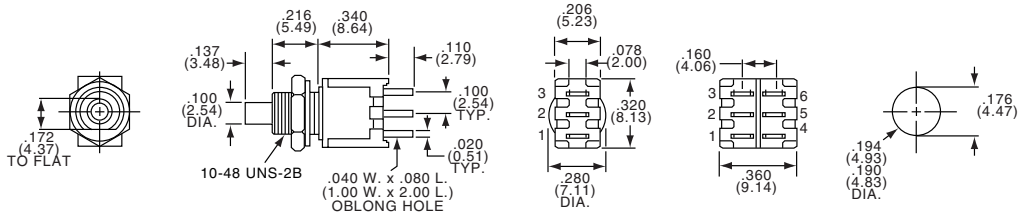


TPC21MGRA

Model	Type	Act. Code. P. M6	Action	Bushing Dia.	Contact Type
TPB21MGRA(*)	DPST	M	N.O. Momentary	.188	Gold
TPB21RGRA(*)	DPDT	R	Momentary	.188	Gold
TPC21MGRA(*)	DPST	M	N.O. Momentary	10-48	Gold
TPC21RGRA(*)	DPDT	R	Momentary	10-48	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on"M" action switch.

1 & 2 POLE





TPC23M



TPC13C

Model	Type	Act. Code P. M6	Action	Contact Type
TPC13C(*)	SPST	C	N.O. Momentary	Silver
TPC13F(*)	SPDT	F	Momentary	Silver
TPC23M(*)	DPST	M	N.O. Momentary	Silver
TPC23R(*)	DPDT	R	Momentary	Silver

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" or "M" action switches.

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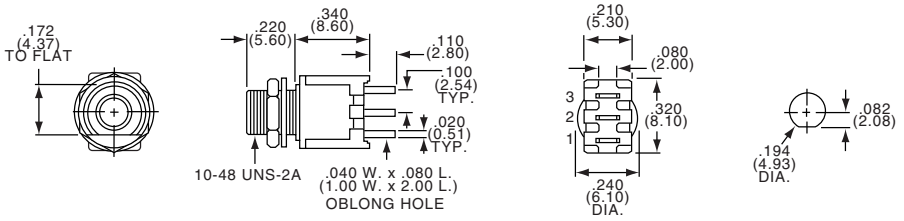
Pushbutton Switches, Tiny, Straight or Right Angle, Flush Actuator

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

SPST/SPDT
Wire Lugs 10-48 Bushing



TPCF13C



Model Silver Contacts	Type	Act. Code P. M6	Action	Bushing Type
TPCF13C(*)	SPST	C	N.O. Momentary	Threaded
TPCF13F(*)	SPDT	F	Momentary	Threaded

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

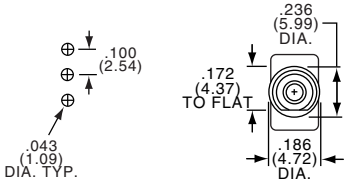
SPST/SPDT
PC 10-48 Bushing

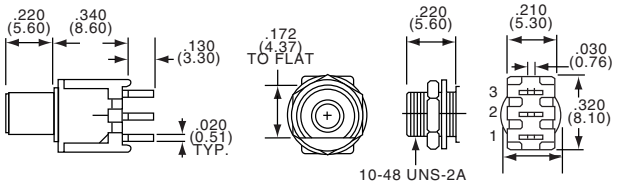


TPBF11FGPC



TPCF11CGPC





TPB SERIES TPC SERIES

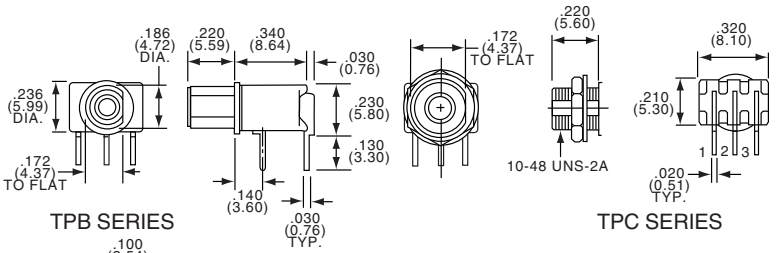
Model Gold Contacts	Type	Act. Code P. M6	Action	Bushing Type
TPBF11CGPC(*)	SPST	C	N.O. Momentary	Unthreaded
TPBF11FGPC(*)	SPDT	F	Momentary	Unthreaded
TPCF11CGPC(*)	SPST	C	N.O. Momentary	Threaded
TPCF11FGPC(*)	SPDT	F	Momentary	Threaded

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

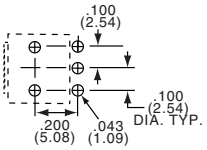
SPST/SPDT
RA 10-48 Bushing



TPBF11CGRA



TPB SERIES TPC SERIES



Model Gold Contacts	Type	Act. Code P. M6	Action	Bushing Type
TPBF11CGRA(*)	SPST	C	N.O. Momentary	Unthreaded
TPBF11FGRA(*)	SPDT	F	Momentary	Unthreaded
TPCF11CGRA(*)	SPST	C	N.O. Momentary	Threaded
TPCF11FGRA(*)	SPDT	F	Momentary	Threaded

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

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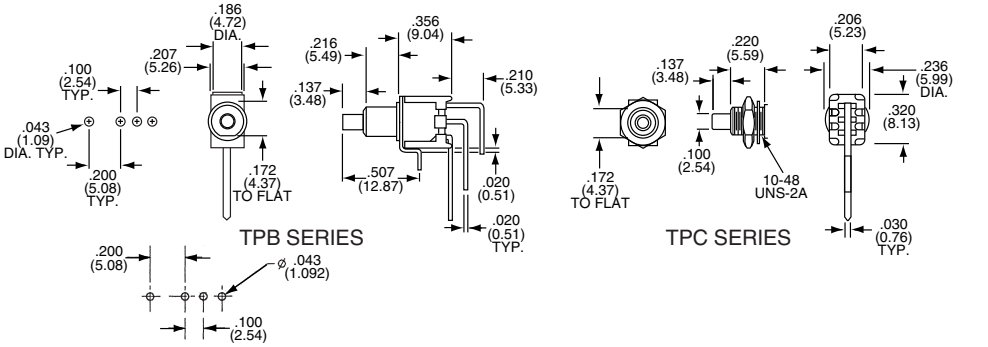
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Pushbutton Switches, Tiny, Vertical Right Angle, Unthreaded or 10-48 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS





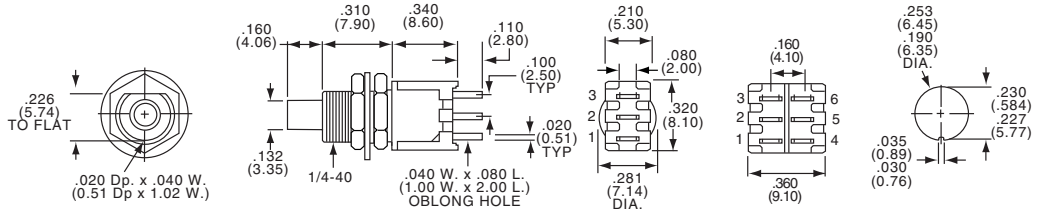
TPB11FGVRA

Model	Type	Act. Code P. M6	Action	Contact Type
TPB11CGVRA(*)	SPST	C	N.O. Momentary	Gold
TPB11FGVRA(*)	SPDT	F	Momentary	Gold
TPC11CGVRA(*)	SPST	C	N.O. Momentary	Gold
TPC11FGVRA(*)	SPDT	F	Momentary	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switches.

Pushbutton Switches, Tiny, Vertical, Unthreaded or 1/4-40 Bushing

1 & 2 POLE





TPF23M

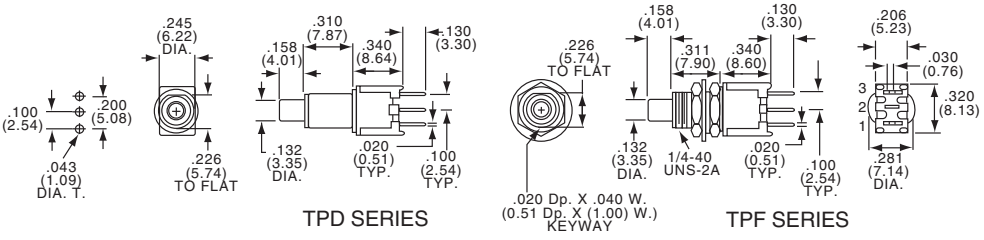


TPF13C

Model	Type	Act. Code P. M6	Action	Contact Type
TPF13C(*)	SPST	C	N.O. Momentary	Silver
TPF13F(*)	SPDT	F	Momentary	Silver
TPF23M(*)	DPST	M	N.O. Momentary	Silver
TPF23R(*)	DPDT	R	Momentary	Silver

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" or "M" action switches.

SPST/SPDT





TPD11CGPC

Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD11CGPC(*)	SPST	C	N.O. Momentary	.250	Gold
TPD11FGPC(*)	SPDT	F	Momentary	.250	Gold
TPF11CGPC(*)	SPST	C	N.O. Momentary	1/4-40	Gold
TPF11FGPC(*)	SPDT	F	Momentary	1/4-40	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
NOTE: No center terminal on "C" action swtch.

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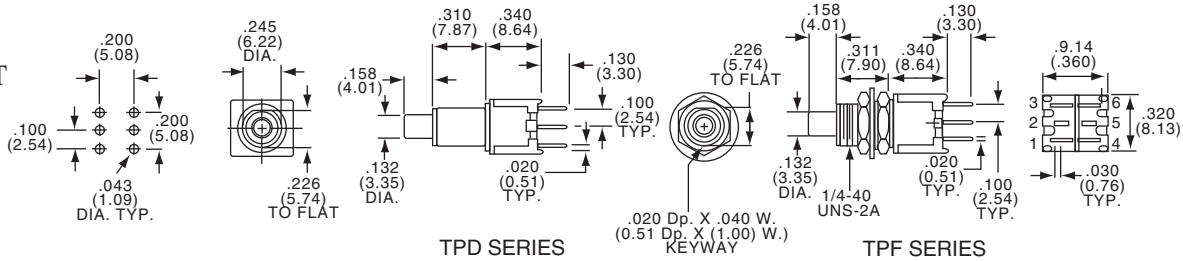
Pushbutton Switches, Tiny, Vertical or Right Angle, Unthreaded or 1/4-40 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

DPST/DPDT



TPD21MGPC



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD21MGPC(*)	DPST	M	N.O. Momentary	.250	Gold
TPD21RGPC(*)	DPDT	R	Momentary	.250	Gold
TPF21MGPC(*)	DPST	M	N.O. Momentary	1/4-40	Gold
TPF21RGPC(*)	DPDT	R	Momentary	1/4-40	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminals on "M" Action switches.

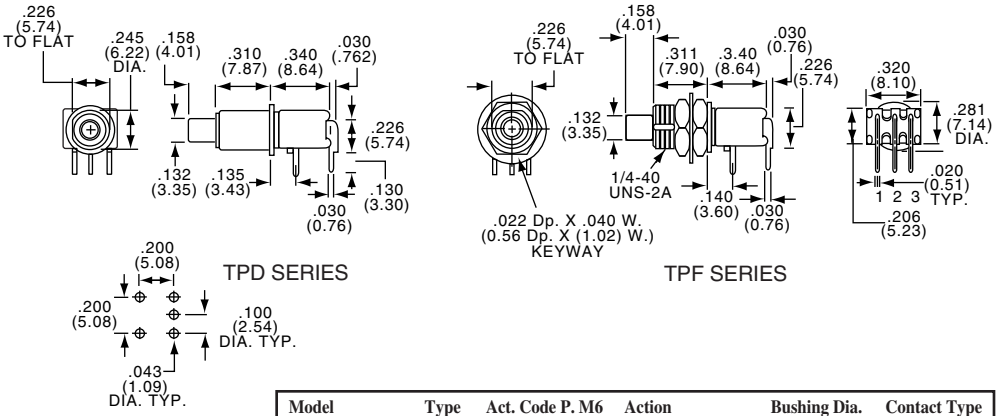
SPST/SPDT



TPD11CGRA



TPF11CGRA



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD11CGRA(*)	SPST	C	N.O. Momentary	.250	Gold
TPD11FGRA(*)	SPDT	F	Momentary	.250	Gold
TPF11CGRA(*)	SPDT	C	N.O. Momentary	1/4-40	Gold
TPF11FGRA(*)	SPDT	F	Momentary	1/4-40	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

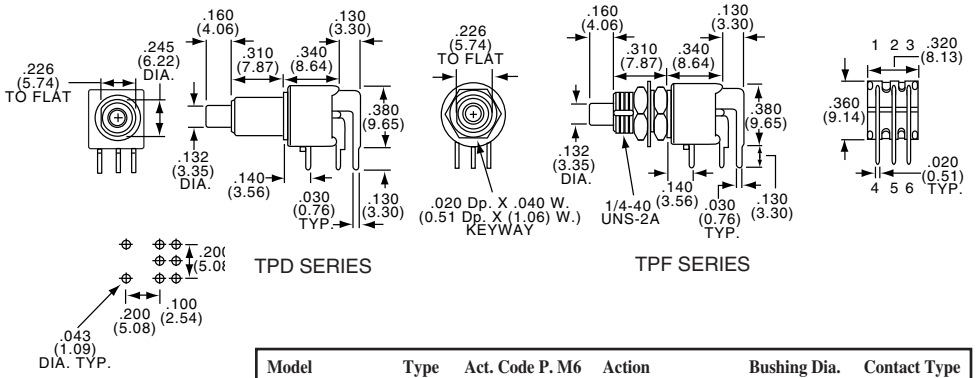
DPST/DPDT



TPF21MGRA



TPD21MGRA



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD21MGRA(*)	DPST	M	N.O. Momentary	.250	Gold
TPD21RGRA(*)	DPDT	R	Momentary	.250	Gold
TPF21MGRA(*)	DPST	M	N.O. Momentary	1/4-40	Gold
TPF21RGRA(*)	DPDT	R	Momentary	1/4-40	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" Action switches.

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Tiny, Process Sealed, Straight

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

*** Refer to Page D6 for Additional Options ***

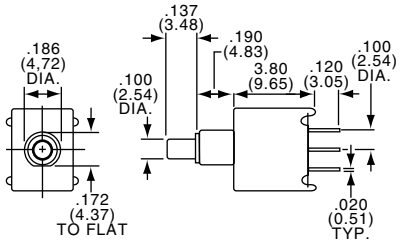
SPST/SPDT



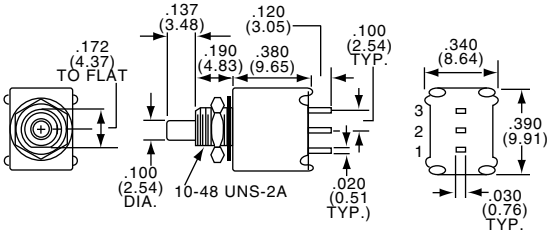
TPB11CGPCES



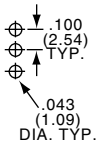
TPC11CGPCES



TPB SERIES



TPC SERIES



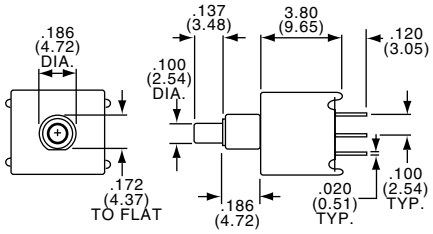
Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB11CGPCES(*)	SPST	C	N.O. Momentary	.188	Gold
TPB11FGPCES(*)	SPDT	F	Momentary	.188	Gold
TPC11CGPCES(*)	SPST	C	N.O. Momentary	10-48	Gold
TPC11FGPCES(*)	SPDT	F	Momentary	10-48	Gold

(*) Specify buttong color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

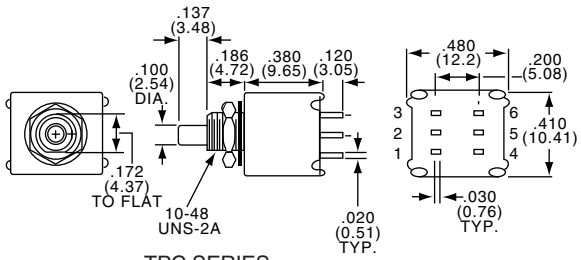
DPST/DPDT



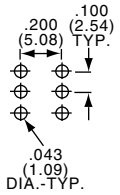
TPB21RGPCES



TPB SERIES



TPC SERIES



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB21MGPCES(*)	DPST	M	N.O. Momentary	.188	Gold
TPB21RGPCES(*)	DPDT	R	Momentary	.188	Gold
TPC21MGPCES(*)	DPST	M	N.O. Momentary	10-48	Gold
TPC21RGPCES(*)	DPDT	R	Momentary	10-48	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

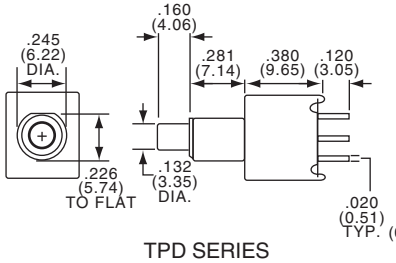
SPST/SPDT



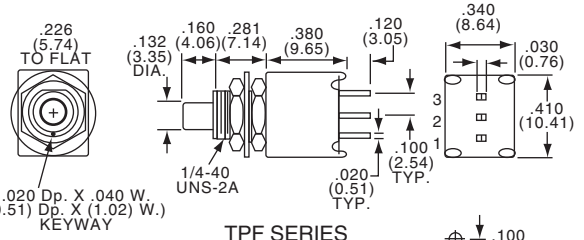
TPD11CGPCES



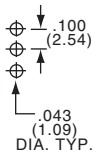
TPF11CGPCES



TPD SERIES



TPF SERIES



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD11CGPCES(*)	SPST	C	N.O. Momentary	.250	Gold
TPD11FGPCES(*)	SPDT	D	Momentary	.250	Gold
TPF11CGPCES(*)	SPST	C	N.O. Momentary	.250	Gold
TPF11FGPCES(*)	SPDT	F	Momentary	.250	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

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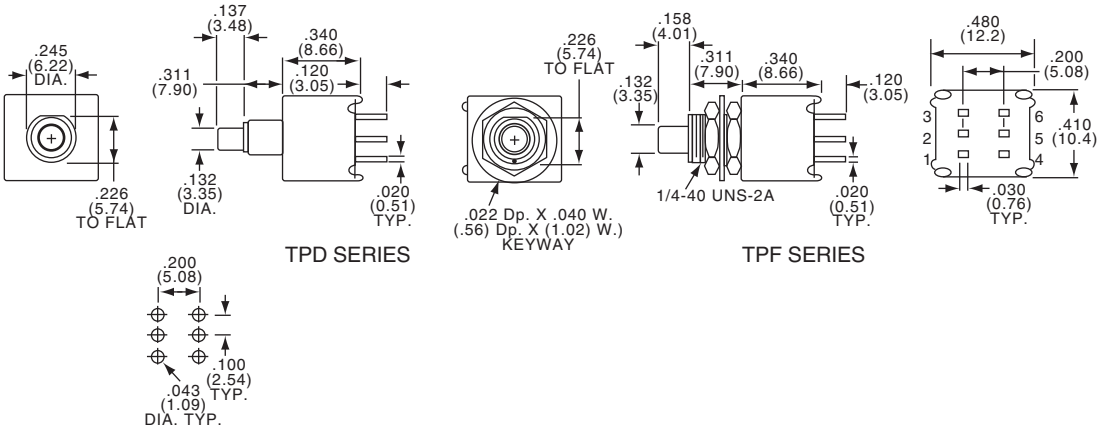
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Tiny, Process Sealed, Straight or Right Angle

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

DPST/DPDT



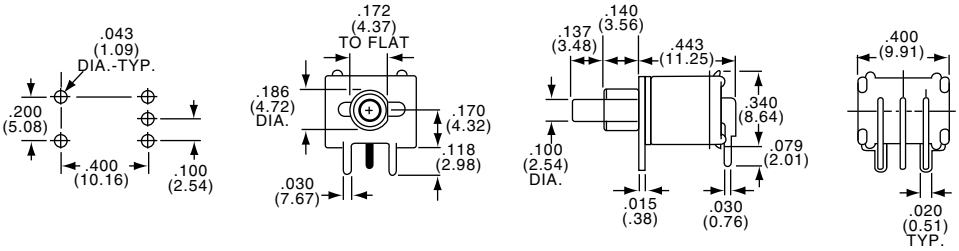


TPD21MGPCES

Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPD21MGPCES(*)	DPST	M	N.O. Momentary	.250	Gold
TPD21RGPCES(*)	DPDT	R	Momentary	.250	Gold
TPF21MGPCES(*)	DPST	M	N.O. Momentary	1/4-40	Gold
TPF21RGPCES(*)	DPDT	R	Momentary	1/4-40	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

SPST/SPDT



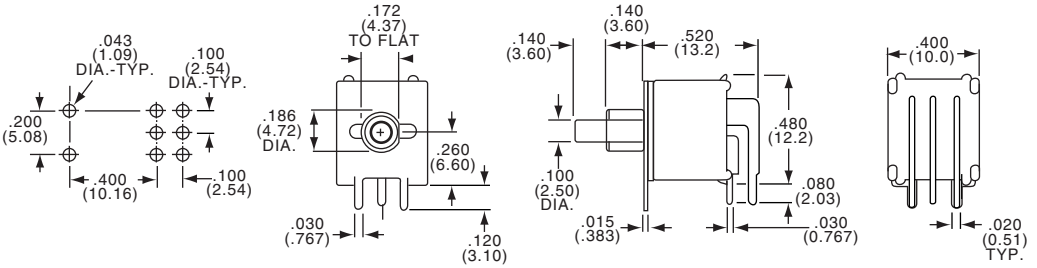


TPB11CGRAES

Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB11CGRAES(*)	SPST	C	N.O. Momentary	.188	Gold
TPB11FGRAES(*)	SPDT	F	Momentary	.188	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

DPST/DPDT



Model	Type	Act. Code P. M6	Action	Bushing Dia.	Contact Type
TPB21MGRAES(*)	DPST	M	N.O. Momentary	.188	Gold
TPB21RGRAES(*)	DPDT	R	Momentary	.188	Gold

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

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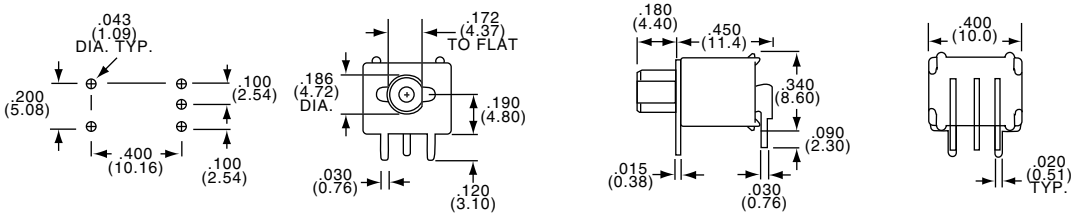
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Tiny, Process Sealed, Flush Actuator, Straight or Right Angle

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS



TPBF
Series

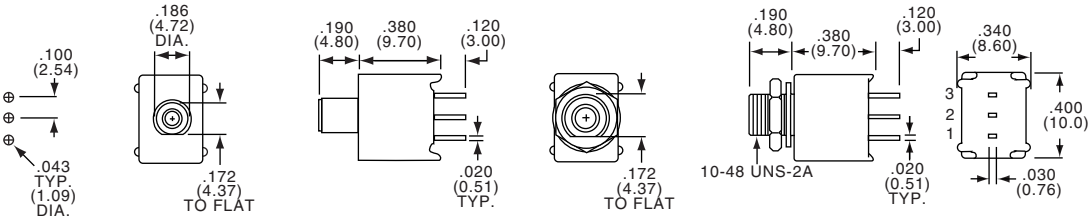
SPST/SPDT



TPBF11CGRAESO

Model	Type	Act. Code P. M6	Action
TPBF11CGRAES(*)	SPST	C	N.O. Momentary
TPBF11FGRAES(*)	SPDT	F	Momentary
(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.			

Note: No center terminal on "C" Action switches.



TPBF
Series

TPCF
Series

SPST/SPDT



TPBF11CGPCES

Model	Type	Act. Code P. M6	Action
TPBF11CGPCES(*)	SPST	C	N.O. Momentary
TPBF11FGPCES(*)	SPDT	F	Momentary
TPCF11FGPCES(*)	SPDT	F	Momentary
(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.			
Note: No center terminal on "C" action switch.			

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UK: 44-141-810-8967

Pushbutton Switches, .120 Actuator, Straight

MATERIAL SPECIFICATIONS:

Contacts .....Gold plate
Case Material .....Polyester
Actuator Material .....Polyester, black
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

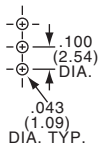
Contact Rating .....0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance.....50 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuator Travel.....050" (1.27)
Life Expectancy .....Up to 10,000 Cycles

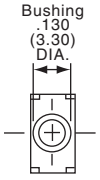
FOR SEALED VERSIONS SEE PAGES D19 AND D20

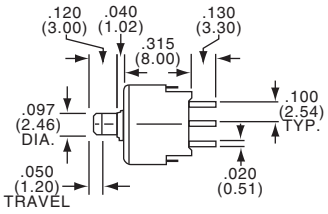
SPST/SPDT

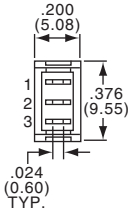


APA1BGPC









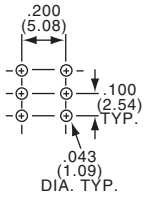
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-2	APA1BGPC	SPST	N.C. Momentary	1-3	(—)
1437567-3	APA1CGPC	SPST	N.O. Momentary	—	(1-3)
1437567-5	APA1FGPC	SPDT	Momentary	2-3	(2-1)

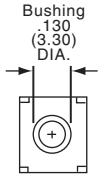
Note: No center terminals on "B" or "C" action switches.

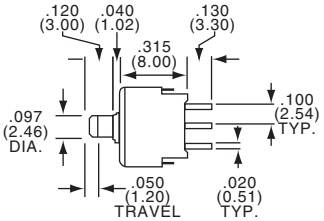
DPST/DPDT

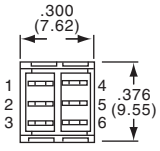


APA2MGPC









Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1437567-7	APA2MGPC	DPST	N.O. Momentary	—	(1-3, 4-6)
1437567-9	APA2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminals on "L" or "M" action switches.

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C. America: 52-55-5-729-0425

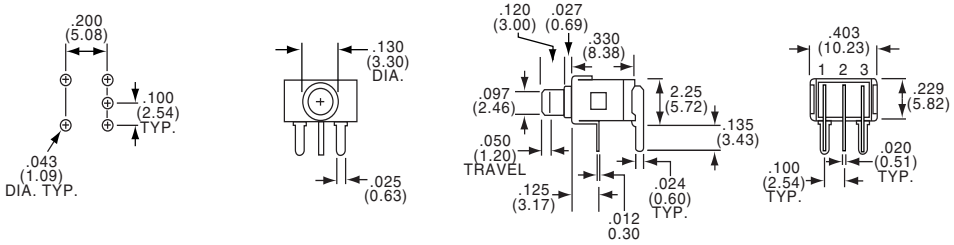
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, .120 Actuator, Right Angle

SPST/SPDT



APA1FGRA



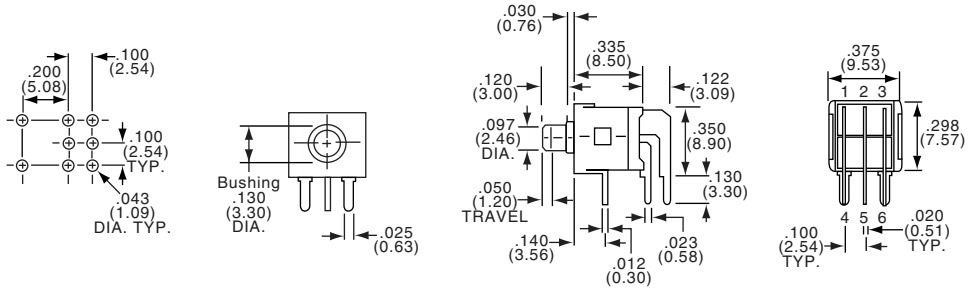
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA1BGRA	SPST	N.C. Momentary	1-3	(—)
1437567-4	APA1CGRA	SPST	N.O. Momentary	—	(1-3)
1437567-6	APA1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2RGRA



Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-8	APA2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
1-1437567-0	APA2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminals on "M" action switches.

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, .157 Actuator, Vertical or Right Angle

MATERIAL SPECIFICATIONS:

Contacts .....Gold plate
Case Material .....Polyester
Actuator Material .....Polyester, black
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

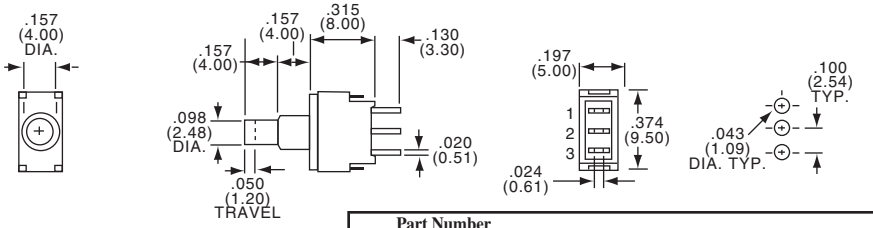
Contact Rating .....0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance.....50 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms @ 500 VDC min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuator Travel.....0.050" (1.27)
Life Expectancy .....Up to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

SPST/SPDT



APB1BGPC



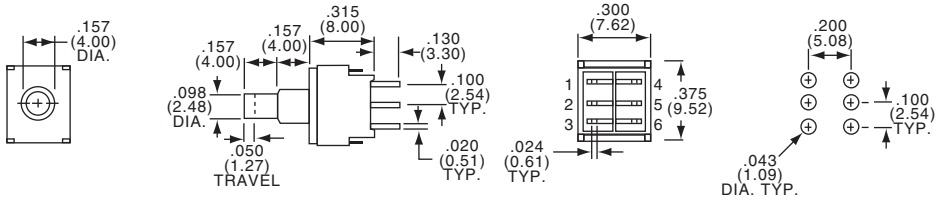
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1-1437567-1	APB1BGPC	SPST	N.C. Momentary	1-3	(—)
1-1437567-2	APB1CGPC	SPST	N.O. Momentary	—	(1-3)
1-1437567-4	APB1FGPC	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



APB2RGPC



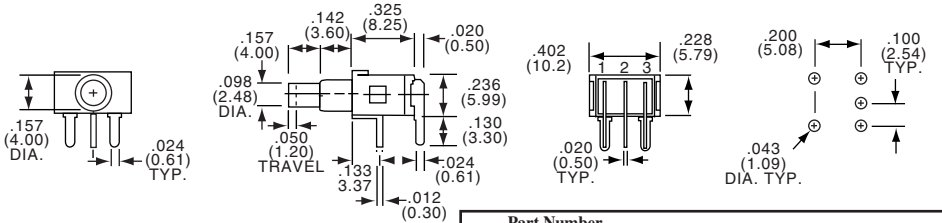
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APB2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1-1437567-7	APB2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "L" action switches.

SPST/SPDT



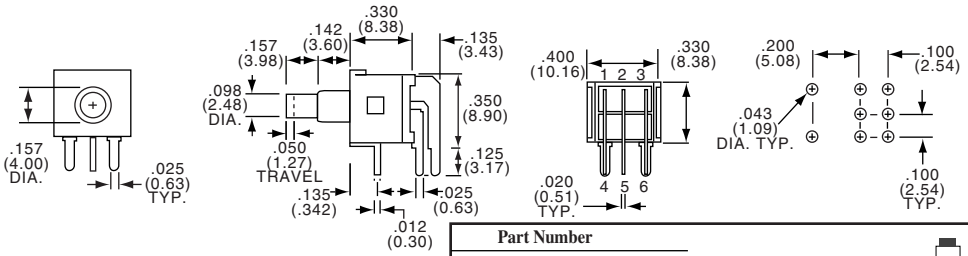
APB1FGRA



Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APB1BGRA	SPST	N.C. Momentary	1-3	(—)
1-1437567-3	APB1CGRA	SPST	N.O. Momentary	—	(1-3)
1-1437567-5	APB1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1-1437567-6	APB2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
—	APB2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "M" action switches.

Catalog 1308390
Issued 9-04

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Process Sealed, .157 Actuator, Straight, Retention Terminal

MATERIAL SPECIFICATIONS:

Contacts .....Gold plated
Case Material .....Polyester
Actuator Material .....Polyester, black
Terminals/Fixed Contacts.....Copper alloy
Terminal Seal .....Epoxy

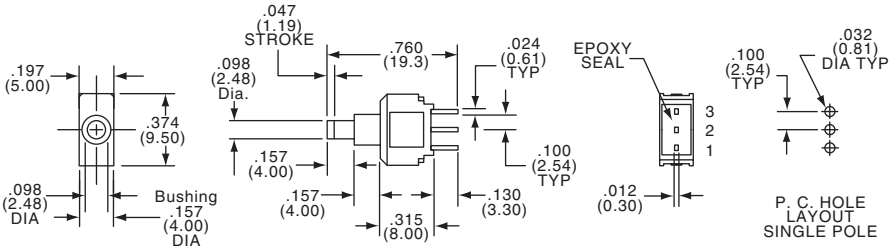
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance.....50 Milliohms max.
Insulation Resistance .....500 Megohms @ 250 VDC min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuator Travel.....0.047" (1.19)
Life Expectancy .....Up to 10,000 Cycles

SPDT



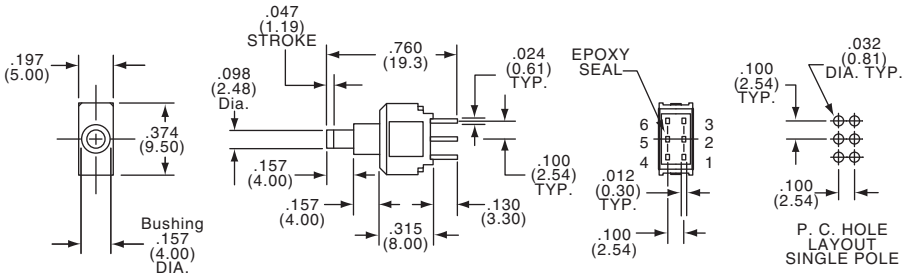


APBE1FGPC

Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
1-1437567-8	APBE1FGPC	SPDT	On	(On)	Gold
	Terminals Connected:		2-3	(2-1)	
	(On) indicates momentary position.				

DPDT

Extra compact double pole saves PCB real estate.





APBE2RGPC

Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
2-1437567-0	APBE2RGPC	DPDT	On	(On)	Gold
	Terminals Connected:		2-3 & 5-6	(2-1 & 5-4)	
	(On) indicates momentary position.				

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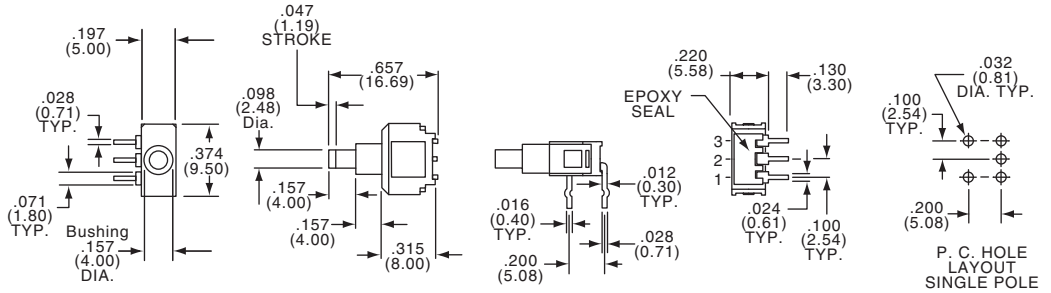
Pushbutton Switches, Process Sealed, .157 Actuator, Retention Terminal, Right Angle

SEE PAGE D19 FOR PRODUCT SPECIFICATIONS.

SPDT



APBE1FGRA



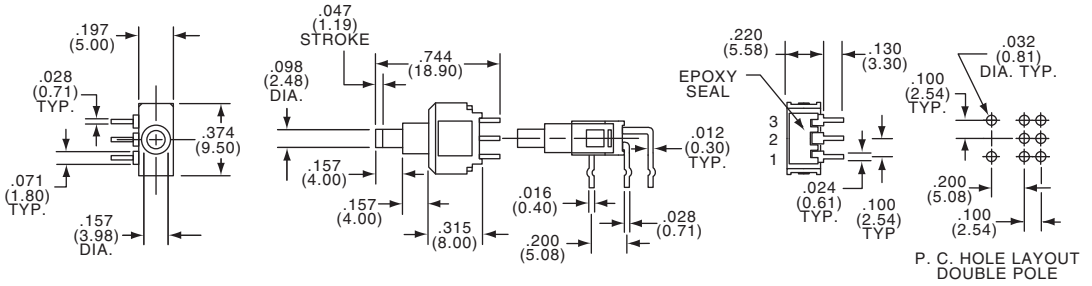
Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
1-1437567-9	APBE1FGRA	SPDT	On	(On)	Gold
	Terminals Connected:		2-3	(2-1)	
	(On) indicates momentary position.				

DPDT

Extra compact double pole saves PCB real estate.



APBE2RGRA



Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
2-1437567-1	APBE2RGRA	DPDT	On	(On)	Gold
	Terminals Connected:		2-3 & 5-6	(2-1 & 5-4)	
	(On) indicates momentary position.				

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Pushbutton Switches, Sub-Miniature, Panel Mount

MPA3 Series

MATERIAL SPECIFICATIONS:

Contacts .....Silver clad
Case Material .....Thermoset
Actuator Material .....Polyamide
Terminals .....Silver plate

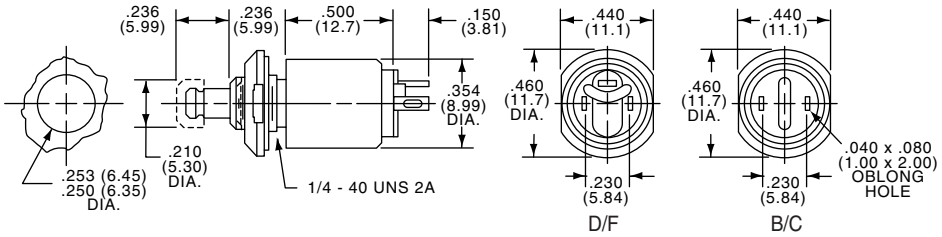
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)
Solder Heat Resistantce .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....3 A @ 125 VAC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuation Force .....10 oz. SPST, 16 oz. SPDT average
Actuator Travel.....100" (2.54)
Life Expectancy .....Up to 10,000 Cycles
Note: Hardware included with switches

SPST/SPDT





MPA103C

Part Number					
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Contact Rating
2-1437567-4	MPA103B	SPST	14	N. C. Momentary	3 Amps
2-1437567-5	MPA103C	SPST	13	N. O. Momentary	3 Amps
2-1437567-6	MPA103D	SPDT	16	Push on/push off- (tactile)	3 Amps
2-1437567-7	MPA103F	SPDT	15	Momentary - (tactile)	3 Amps

Black Cap supplied. Other colors available, order separately.
(See Cap C5 and C8 on Page D32.)

MPB Series

Pushbutton Switches, Miniature, Over-Travel

MATERIAL SPECIFICATIONS:

Contacts .....Silver plate
Case Material .....Thermoset
Actuator Material .....Polyamide
Terminals .....Silver plate

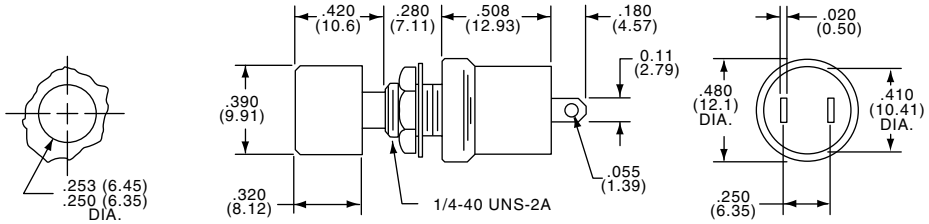
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
Storage Temperature.....+5°F to +158°F (-15°C to +70°C)
Solder Heat Resistance.....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....3 A @ 125 VAC
Initial Contact Resistance.....20 Milliohms max.
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuator Travel.....100" (2.54) Overtravel .059" (1.5mm)
Life Expectancy .....20,000 Cycles
Note: Hardware included with switches

SPST





MPB103B

Part Number					
Tyco Electronics	Alcoswitch	Type	Act. Code P. M6	Action	Actuator Color
3-1437567-9	MPB103B	SPST	14	N.C. Momentary	Black
4-1437567-0	MPB103C	SPST	13	N.O. Momentary	Red

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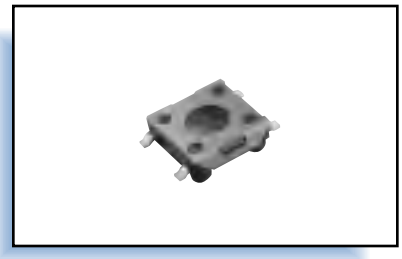
Tactile



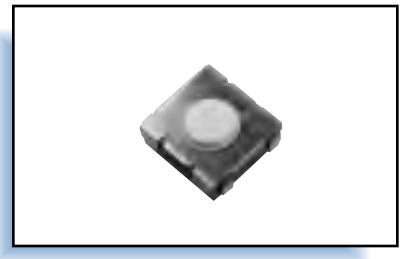
FSM Series - Page E3



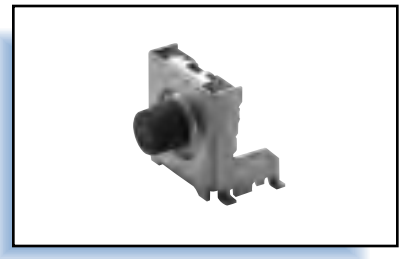
4.9mm Series - Page E11



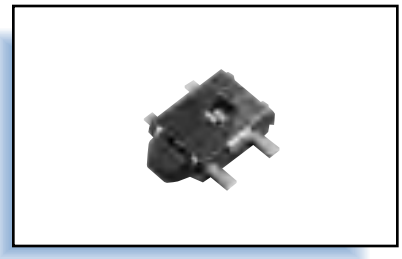
Low Profile Series - Page E12



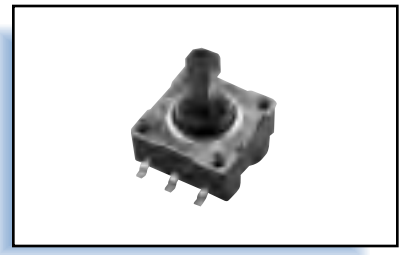
High Life Tactile - Page E12



Sealed Series - Page E27



Side Actuated - Page E29



Multi-Directional Actuation - Page E30

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UK: 44-141-810-8967

Tactile Switches, .138 [3.5] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

Contacts .....Stainless/Silver clad plate
Case Material .....Nylon
Actuator Material .....PBT
Terminals/Fixed Contacts.....Copper alloy, Silver/Nickel

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to + 85°C)
Storage Temperature.....-40°F to +185°F (-40°C to + 85°C)
Solder Heat Resistance.....See Page M3-4

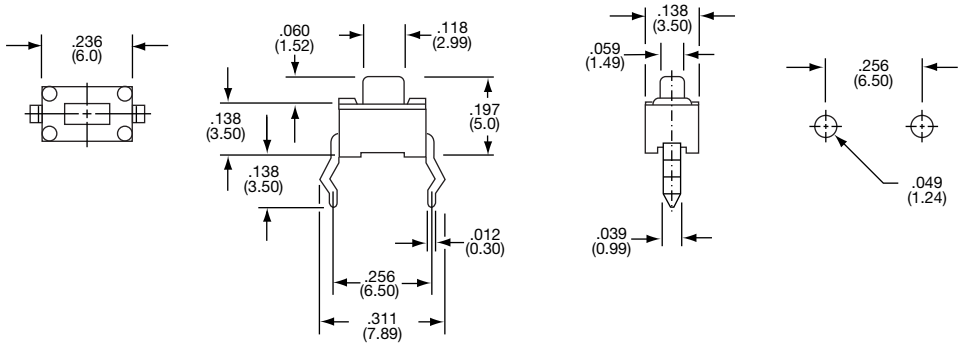
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....130±50 Grams
Actuator Travel.....010"(.254)
Life Expectancy .....Up to 20,000 Cycles

3.5 x 6mm



FSM

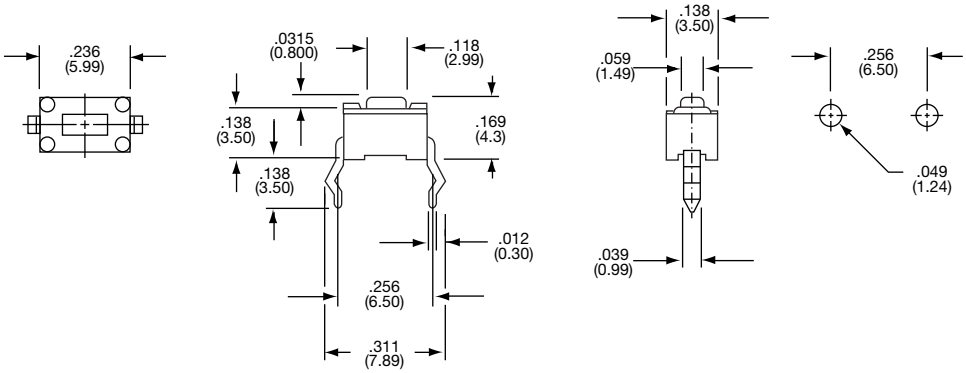


Tyco Electronics	Alcoswitch	Type		
1437565-1	FSM	SPST	Off	(On)
			(On) indicates momentary position.	

3.5 x 6mm



FSMC



Tyco Electronics	Alcoswitch	Type		
7-1437565-6	FSMC	SPST	Off	(On)
			(On) indicates momentary position.	

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UK: 44-141-810-8967

Tactile Switches, .236 [6] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver plate
Case.....Polyamide
Actuator Button .....Polyacetal Resin
Frame .....Steel, tin plate
Terminals .....Copper alloy, silver plate

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°F to +221°F (-40°C to +105°C)
Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
Solder Heat Resistance .....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC
Actuation Force .....See page E5
Actuator Travel..... .012" (0,3)
Electrostatic Discharge
w/ESD Ground Terminal .....5Kv w/no discharge
Life Expectancy .....Up to 100,000 Cycles

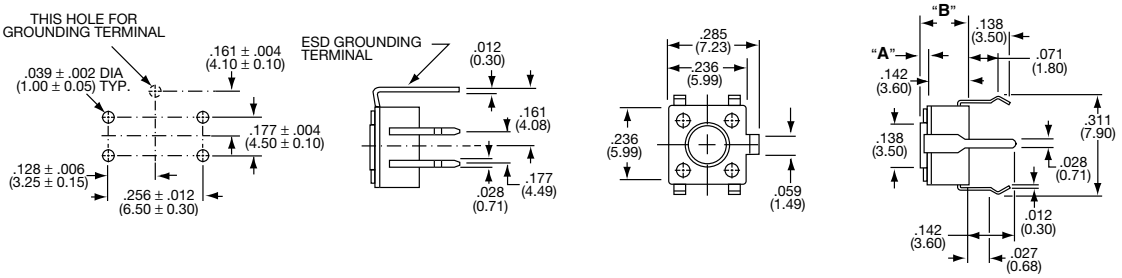
PART NUMBERING SEQUENCE

Model	Actuator Length		Temp.	Actuator Force
FSM	☐	J	☐	☐
	Pg. E5		BLANK= STD. H= HIGH TEMP. ACTUATOR OPT. 1-8 ONLY	BLANK= 160g STD. A = 260 g AA = 520 g L = 100 g

6 x 6 mm



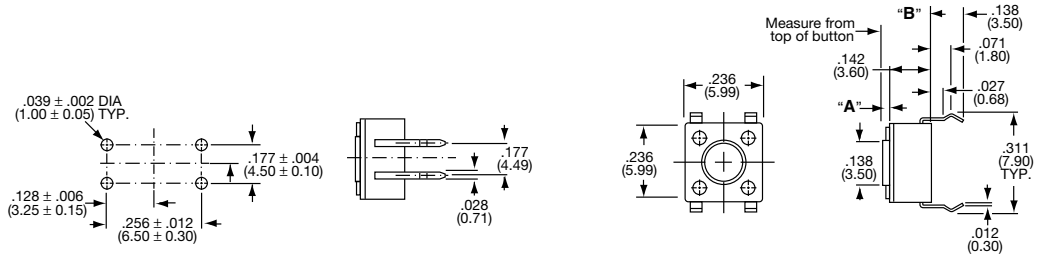
FSM1J
WITH
ESD
TERMINAL



6 x 6 mm



FSM2J
WITHOUT
ESD
TERMINAL



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Tactile Switches, .236 [6] x .236 [6], Through Hole (Continued)

TYCO Electronics Part Number	ALCO Part Number	DIMENSIONS A	DIMENSIONS B	Actuation Force	Actuator Material	Life Cycles
With Ground Terminal						
1-1437565-5	FSM1J	0.028 (0.70)	0.169 (4.30)	160±50gf	PBT	100,000
—	FSM1JA	0.028 (0.70)	0.169 (4.30)	260±50gf	PBT	100,000
—	FSM1JAA	0.028 (0.70)	0.169 (4.30)	520±100gf	PBT	100,000
—	FSM1JL	0.028 (0.70)	0.169 (4.30)	100±50gf	PBT	100,000
3-1437565-3	FSM3J	0.055 (1.40)	0.196 (5.00)	160±50gf	PBT	100,000
—	FSM3JA	0.055 (1.40)	0.196 (5.00)	260±50gf	PBT	100,000
—	FSM3JAA	0.055 (1.40)	0.196 (5.00)	520±100gf	PBT	100,000
—	FSM3JL	0.055 (1.40)	0.196 (5.00)	100±50gf	PBT	100,000
4-1437565-4	FSM5J	0.134 (3.40)	0.276 (7.00)	160±50gf	ACETAL	100,000
—	FSM5JA	0.134 (3.40)	0.276 (7.00)	260±50gf	ACETAL	100,000
—	FSM5JAA	0.134 (3.40)	0.276 (7.00)	520±100gf	ACETAL	100,000
—	FSM5JL	0.134 (3.40)	0.276 (7.00)	100±50gf	ACETAL	100,000
5-1437565-1	FSM7J	0.232 (5.90)	0.374 (9.50)	160±50gf	PBT	100,000
—	FSM7JA	0.232 (5.90)	0.374 (9.50)	260±50gf	PBT	100,000
—	FSM7JAA	0.232 (5.90)	0.374 (9.50)	520±100gf	PBT	100,000
—	FSM7JL	0.232 (5.90)	0.374 (9.50)	100±50gf	PBT	100,000
7-1437565-5	FSM9J	0.146 (3.70)	0.287 (7.30)	160±50gf	ACETAL	100,000
—	FSM9JA	0.146 (3.70)	0.287 (7.30)	260±50gf	ACETAL	100,000
—	FSM9JAA	0.146 (3.70)	0.287 (7.30)	520±100gf	ACETAL	100,000
—	FSM9JL	0.146 (3.70)	0.287 (7.30)	100±50gf	ACETAL	100,000
1437565-8	FSM11J	0.173 (4.40)	0.315 (8.00)	160±50gf	ACETAL	100,000
—	FSM11JA	0.173 (4.40)	0.315 (8.00)	260±50gf	ACETAL	100,000
—	FSM11JAA	0.173 (4.40)	0.315 (8.00)	520±100gf	ACETAL	100,000
—	FSM11JL	0.173 (4.40)	0.315 (8.00)	100±50gf	ACETAL	100,000
1-1437565-0	FSM13J	0.370 (9.40)	0.512 (13.00)	160±50gf	ACETAL	100,000
1-1437565-1	FSM13JA	0.370 (9.40)	0.512 (13.00)	260±50gf	ACETAL	100,000
—	FSM13JAA	0.370 (9.40)	0.512 (13.00)	520±100gf	ACETAL	100,000
—	FSM13JL	0.370 (9.40)	0.512 (13.00)	100±50gf	ACETAL	100,000
—	FSM15J	0.527 (13.40)	0.669 (17.00)	160±50gf	ACETAL	100,000
147916-1	FSM15JA	0.527 (13.40)	0.669 (17.00)	260±50gf	ACETAL	100,000
—	FSM15JAA	0.527 (13.40)	0.669 (17.00)	520±100gf	ACETAL	100,000
—	FSM15JL	0.527 (13.40)	0.669 (17.00)	100±50gf	ACETAL	100,000
—	FSM17J	0.193 (4.90)	0.335 (8.51)	160±50gf	ACETAL	100,000
—	FSM17JA	0.193 (4.90)	0.335 (8.51)	260±50gf	ACETAL	100,000
—	FSM17JAA	0.193 (4.90)	0.335 (8.51)	520±100gf	ACETAL	100,000
—	FSM17JL	0.193 (4.90)	0.335 (8.51)	100±50gf	ACETAL	100,000
Without Ground Terminal						
2-1437565-0	FSM2J	0.028 (0.70)	0.169 (4.30)	160±50gf	PBT	100,000
2-1437565-1	FSM2JA	0.028 (0.70)	0.169 (4.30)	260±50gf	PBT	100,000
—	FSM2JAA	0.028 (0.70)	0.169 (4.30)	520±100gf	PBT	100,000
2-1437565-4	FSM2JL	0.028 (0.70)	0.169 (4.30)	100±50gf	PBT	100,000
3-1437565-6	FSM4J	0.055 (1.40)	0.196 (5.00)	160±50gf	PBT	100,000
3-1437565-7	FSM4JA	0.055 (1.40)	0.196 (5.00)	260±50gf	PBT	100,000
3-1437565-8	FSM4JAA	0.055 (1.40)	0.196 (5.00)	520±100gf	PBT	100,000
—	FSM4JL	0.055 (1.40)	0.196 (5.00)	100±50gf	PBT	100,000
4-1437565-5	FSM6J	0.134 (3.40)	0.276 (7.00)	160±50gf	ACETAL	100,000
4-1437565-6	FSM6JA	0.134 (3.40)	0.276 (7.00)	260±50gf	ACETAL	100,000
—	FSM6JAA	0.134 (3.40)	0.276 (7.00)	520±100gf	ACETAL	100,000
—	FSM6JL	0.134 (3.40)	0.276 (7.00)	100±50gf	ACETAL	100,000
5-1437565-2	FSM8J	0.232 (5.90)	0.374 (9.50)	160±50gf	PBT	100,000
5-1437565-3	FSM8JA	0.232 (5.90)	0.374 (9.50)	260±50gf	PBT	100,000
5-1437565-4	FSM8JAA	0.232 (5.90)	0.374 (9.50)	520±100gf	PBT	100,000
1571376-1	FSM8JL	0.232 (5.90)	0.374 (9.50)	100±50gf	PBT	100,000
1437565-7	FSM10J	0.146 (3.70)	0.287 (7.30)	160±50gf	ACETAL	100,000
—	FSM10JA	0.146 (3.70)	0.287 (7.30)	260±50gf	ACETAL	100,000
—	FSM10JAA	0.146 (3.70)	0.287 (7.30)	520±100gf	ACETAL	100,000
—	FSM10JL	0.146 (3.70)	0.287 (7.30)	100±50gf	ACETAL	100,000
1437565-9	FSM12J	0.173 (4.40)	0.315 (8.00)	160±50gf	ACETAL	100,000
—	FSM12JA	0.173 (4.40)	0.315 (8.00)	260±50gf	ACETAL	100,000
—	FSM12JAA	0.173 (4.40)	0.315 (8.00)	520±100gf	ACETAL	100,000
—	FSM12JL	0.173 (4.40)	0.315 (8.00)	100±50gf	ACETAL	100,000
1-1437565-2	FSM14J	0.370 (9.40)	0.512 (13.00)	160±50gf	ACETAL	100,000
—	FSM14JA	0.370 (9.40)	0.512 (13.00)	260±50gf	ACETAL	100,000
—	FSM14JAA	0.370 (9.40)	0.512 (13.00)	520±100gf	ACETAL	100,000
—	FSM14JL	0.370 (9.40)	0.512 (13.00)	100±50gf	ACETAL	100,000
1-1437565-3	FSM16J	0.527 (13.40)	0.669 (17.00)	160±50gf	ACETAL	100,000
—	FSM16JA	0.527 (13.40)	0.669 (17.00)	260±50gf	ACETAL	100,000
—	FSM16JAA	0.527 (13.40)	0.669 (17.00)	520±100gf	ACETAL	100,000
—	FSM16JL	0.527 (13.40)	0.669 (17.00)	100±50gf	ACETAL	100,000
1-1437565-4	FSM18J	0.193 (4.90)	0.335 (8.51)	160±50gf	ACETAL	100,000
—	FSM18JA	0.193 (4.90)	0.335 (8.51)	260±50gf	ACETAL	100,000
—	FSM18JAA	0.193 (4.90)	0.335 (8.51)	520±100gf	ACETAL	100,000
—	FSM18JL	0.193 (4.90)	0.335 (8.51)	100±50gf	ACETAL	100,000

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .236 [6] x .236 [6], Radial Tape

MATERIAL SPECIFICATIONS:

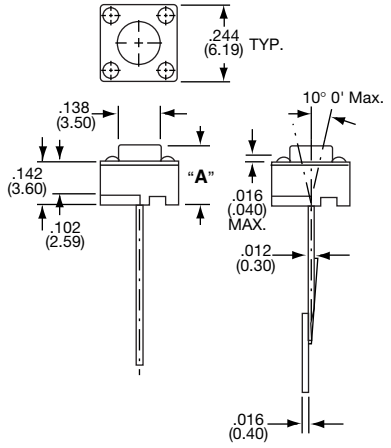
Contacts .....Copper alloy, silver clad plate
Case.....Nylon
Actuator Button .....PBT
Cover.....Steel, tin plate
Terminals .....Copper alloy, silver clad plate

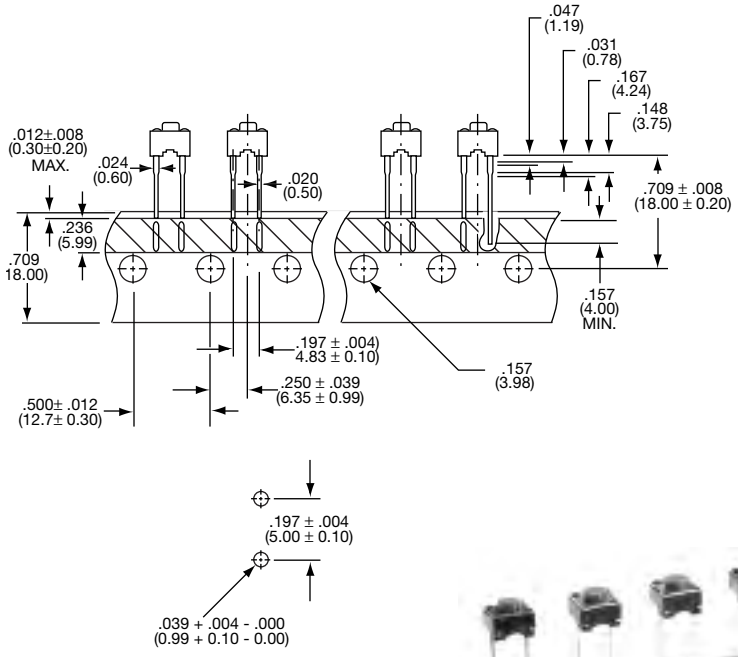
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -40°F to +221°F (-40°C to +105°C)
Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
Solder Heat Resistance.....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .010" (,254)
Life Expectancy .....Up to 100,000 Cycles







FSM4JRT

Tyco Electronics	Alcoswitch	Dimension A	Actuation Force
2-1437565-6	FSM2JRT	4.3 (.169)	160 +/-50 gm
2-1437565-2	FSM2JART	4.3 (.169)	260 +/-75 gm
4-1437565-0	FSM4JRT	5.0 (.197)	160 +/-50 gm
147997-1	FSM4JART	5.0 (.197)	260 +/-75 gm
4-1437565-8	FSM6JRT	7.0 (.276)	160 +/-50 gm
1571402-1	FSM6JART	7.0 (.276)	260 +/-75 gm
147694-1	FSM8JRT	9.5 (.374)	160 +/-50 gm
147871-1	FSM8JART	9.5 (.374)	260 +/-75 gm
1571010-1	FSM14JRT	13.0 (.512)	160 +/-50 gm

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .236 [6] x .236 [6], Right Angle

MATERIAL SPECIFICATIONS:

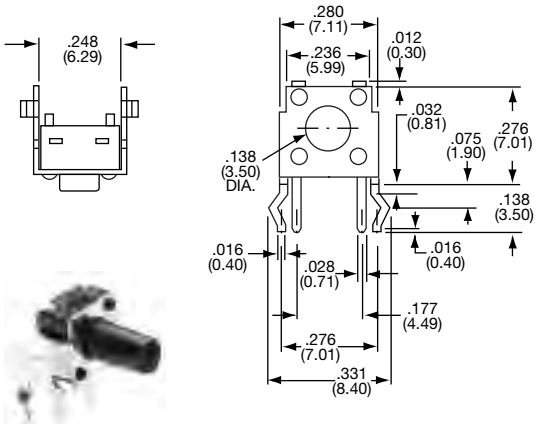
Contacts .....Copper alloy, silver clad plate
Case.....PBT
Actuator Button .....Nylon/acetal
Frame .....Steel, tin plate
Terminals .....Copper alloy, silver plate

ENVIRONMENTAL SPECIFICATIONS

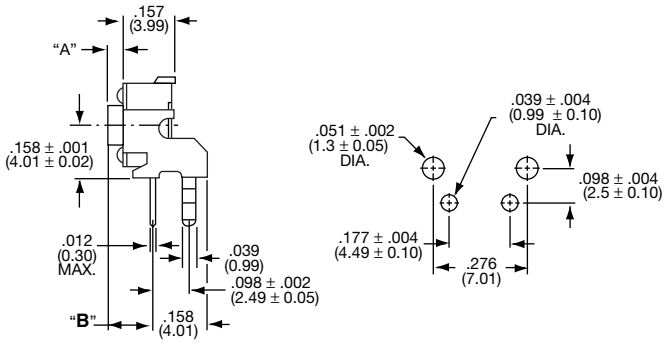
Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance.....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .012" (0,3)
Life Expectancy .....Up to 100,000 Cycles
Up to 50,000 Cycles 520 GF (AA option)



FSMRA7J



Type		
SPST	Off	(On)

(On) indicates momentary position.

Tyco Electronics	Alcoswitch	Dim. A	Dim B
8-1437565-4	FSMRA 1J	.022" (0,55)	.124" (3,15)
1571386-2	FSMRA 1JL	.022" (0,55)	.124" (3,15)
8-1437565-5	FSMRA 2J	.049" (1,25)	.152" (3,86)
1571386-1	FSMRA 2JL	.049" (1,25)	.152" (3,86)
8-1437565-8	FSMRA 2JA	.049" (1,25)	.152" (3,86)
8-1437565-9	FSMRA 2JH	.049" (1,25)	.152" (3,86)
9-1437565-0	FSMRA 3J	.128" (3,25)	.230" (5,84)
1571386-3	FSMRA 3JL	.128" (3,25)	.230" (5,84)
9-1437565-1	FSMRA 4J	.226" (5,74)	.329" (8,36)
1571819-1	FSMRA 4JA	.226" (5,74)	.329" (8,36)
1571386-4	FSMRA 4JL	.226" (5,74)	.329" (8,36)
9-1437565-2	FSMRA 5J	.140" (3,55)	.242" (6,15)
1571386-5	FSMRA 5JL	.140" (3,55)	.242" (6,15)
9-1437565-3	FSMRA 6J	.167" (4,25)	.269" (6,85)
1571386-6	FSMRA 6JL	.167" (4,25)	.269" (6,85)
9-1437565-5	FSMRA 7J	.364" (9,25)	.467" (11,86)
1571386-7	FSMRA 7JL	.364" (9,25)	.467" (11,86)
1571419-1	FSMRA 8J	.522" (13,26)	.624" (15,85)
1571386-8	FSMRA 8JL	.522" (13,26)	.624" (15,85)

PART NUMBERING SEQUENCE

Model	Actuator Length		Temperature	Actuation Force	±50g Tolerance
FSMRA		J			

ACTUATOR LENGTH DIM "A" / SWITCH HEIGHT DIM "B"

.022" (0,56)	1	.124" (3,15)
.049" (1,24)	2	.152" (3,86)
.128" (3,25)	3	.230" (5,84)
.226" (5,74)	4	.329" (8,36)
.140" (3,55)	5	.242" (6,15)
.167" (4,24)	6	.269" (6,85)
.364" (9,24)	7	.467" (11,86)
.522" (13,26)	8	.624" (15,85)

BLANK = STD. TEMP.
H = HIGH TEMP.
MATERIAL: CASE, PPS
ACTUATOR, PPS
(ACTUATOR OPTIONS 1 - 2)

BLANK = 160 g (STD.)
A = 260 g (OPT.)
AA = 520 g (OPT.)
L = 100 g (OPT.)

CONSULT FACTORY FOR OTHER OPTIONS

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Tactile Switches, .236 [6] x .236 [6], Square Button, Straight or Right Angle

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver clad plate
Case.....Nylon
Actuator Button .....Polyacetal Resin
Cover.....Pet film
Terminals .....Copper alloy, silver plate
Frame (R/A) .....Steel, tin plate

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance .....See Page M3-4

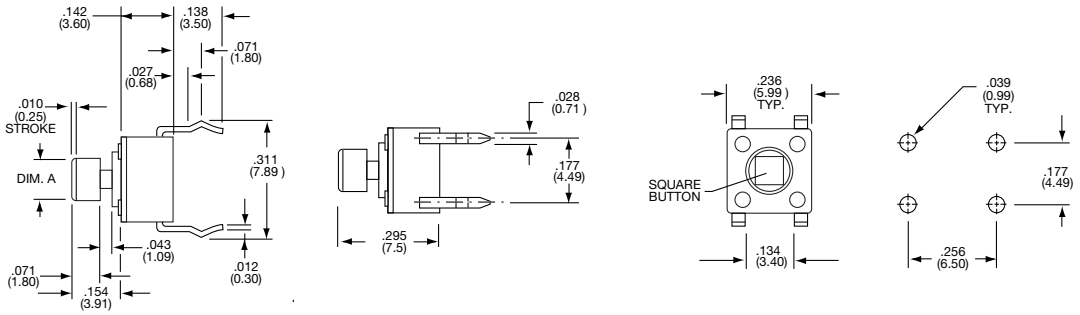
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms Max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....100 and 160 ±50 Grams
Actuator Travel..... .010"(,254)
Life Expectancy .....Up to 100,000 Cycles

6 x 6 mm



FSMCDA

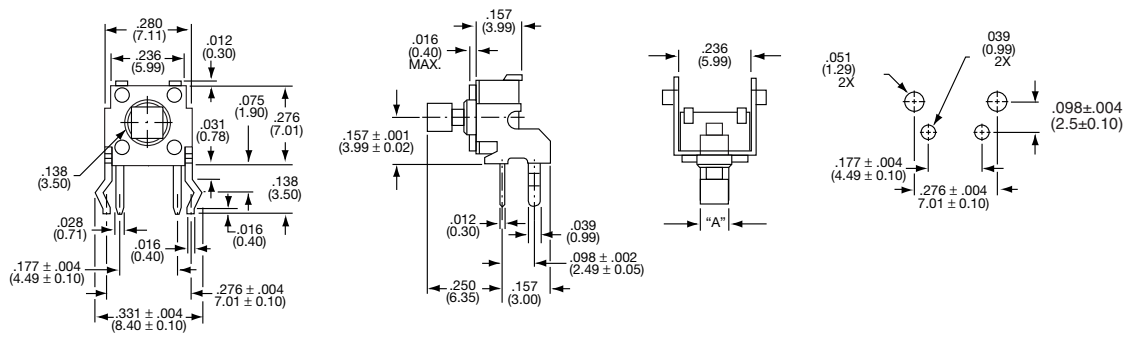


Tyco Electronics	Alcoswitch	Dim. A	Type			Force
7-1437565-8	FSMCD	.095 (2,42)	SPST	Off	(On)	100±50g
7-1437565-9	FSMCDA	.110 (2,80)	SPST	Off	(On)	160±50g
			(On) indicates momentary position.			

6 x 6 mm



FSMRACDA



Tyco Electronics	Alcoswitch	Dim. A	Force
9-1437565-9	FSMRACD	.095 (2,42)	100±50g
1437566-1	FSMRACDA	.110 (2,80)	160±50g

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .138 [3.5] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

Contacts .....Stainless steel, silver clad plate
Case Material .....FSMSM: PPS
Actuator Material .....FSMSM: Nylon
FSMJM: PPS
Terminals .....Copper alloy, silver plate or tin plate
Cover.....Stainless steel

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to +85°C)
Storage Temperature.....-40°F to +185°F (-40°C to +85°C)
Solder Heat Resistance.....FSMSM IR Soldering EIA-364-56,
Procedure 5 Level 1, 215° C
FSMJM IR Soldering per EIA 364-56
Procedure 5, level 2, 464°F (240°C)

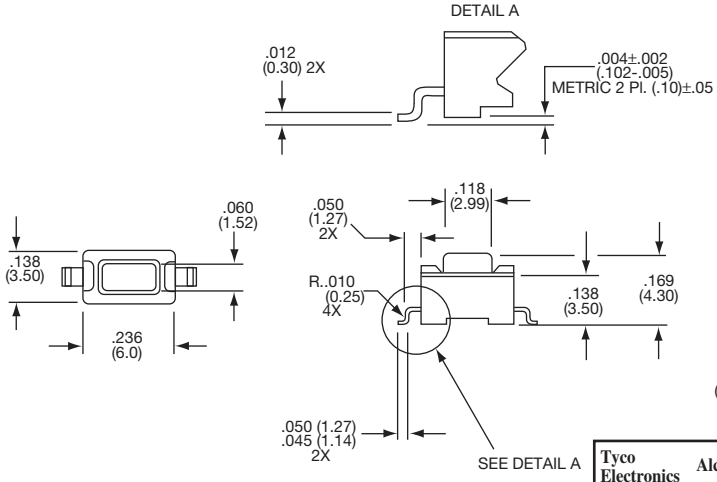
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuator Travel.....010"(.254)
Life Expectancy .....20,000-40,000 Cycles

3.5 x 6.0 mm



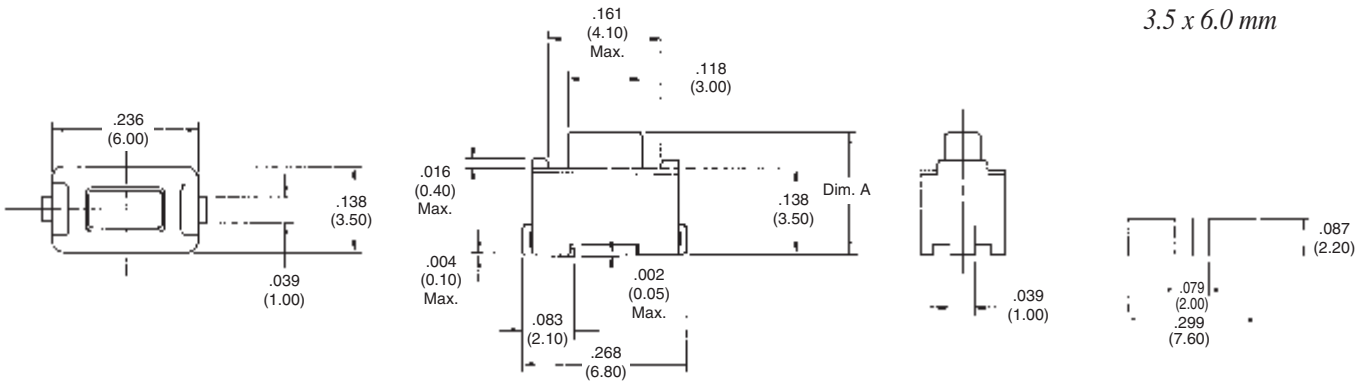
FSMSM



Tyco Electronics	Alcoswitch	Type			Packaging	Actuation Force	Life Cycle
1437566-3	FSMSM	SPST	Off	(On)	Bulk	180±50	20,000
1437566-4	FSMSMTR				Reel	180±50	20,000

(On) indicates momentary position.

3.5 x 6.0 mm



Tyco Electronics	Alcoswitch	Type	Dim. A	Actuation Force	Packaging	Life Cycle
147873-1	FSMJM5.0ATR	SPST	.197 (5.00)	180±50	Reel	40,000
147873-2	FSMJM4.3ATR	SPST	.169 (4.30)	180±50	Reel	40,000
147873-3	FSMJM3.5ATR	SPST	.138 (3.50)	180±50	Reel	40,000
147942-1	FSMJM4.3	SPST	.169 (4.30)	130±50	Bulk	40,000
147942-2	FSMJM4.3TR	SPST	.169 (4.30)	130±50	Reel	40,000

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UK: 44-141-810-8967

Tactile Switches, .236 [6] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver plate
Case.....PPS
Actuator Button .....PPS
Cover.....Steel, tin plate
Terminals .....Copper alloy, silver plate

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to + 85°C)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance.....IR Soldering EIA-364-56
Procedure 5 Level 3, 500°F (260°C)

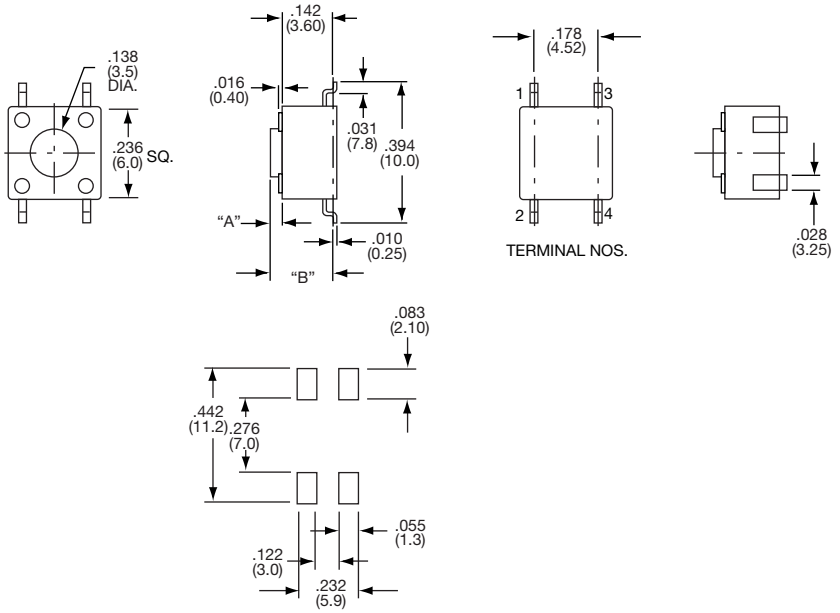
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .010"(.254)
Life Expectancy .....Up to 100,000 Cycles

6 x 6 mm



FSMJSMA



Bulk Pack Part Number		Tape & Reel Part Number		Actuator Length	Switch Height	Actuation Force
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Dimension A	Dimension B	
2-1437565-7	FSM2JSMA	3-1437565-0	FSM2JSMATR	.028 (0.70)	.169 (4.30)	160 ± 50 grams
4-1437565-1	FSM4JSMA	4-1437565-2	FSM4JSMATR	.055 (1.40)	.196 (5.00)	160 ± 50 grams
4-1437565-9	FSM6JSMA	5-1437565-0	FSM6JSMATR	.134 (3.40)	.276 (7.00)	160 ± 50 grams
2-1437565-8	FSM2JSMAA	2-1437565-9	FSM2JSMAATR	.028 (0.70)	.169 (4.30)	260 ± 50 grams
1571563-1	FSM4JSML	1571563-2	FSM4JSMLTR	.055 (1.40)	.196 (5.00)	100 ± 50 grams
1571563-3	FSM4JSMAA	1571563-4	FSM4JSMAATR	.055 (1.40)	.196 (5.00)	260 ± 50 grams
—	FSM6JSMAA	—	FSM6JSMAATR	.134 (3.40)	.276 (7.00)	260 ± 50 grams
3-1437566-8	FSM8JSMA	—	FSM8JSMATR	.232 (5.90)	.374 (9.50)	260 ± 50 grams
1571527-1	FSM2JSML	1571527-2	FSM2JSMLTR	.028 (0.70)	.169 (4.30)	100 ± 50 grams

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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Low Profile Series FSMCT Tactile Switches, .196 [5.0] x .196 [5.0], Surface Mount

MATERIAL SPECIFICATIONS:

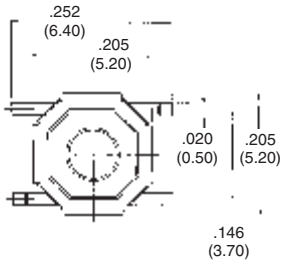
Cover .....Nickel Silver
Stem/Actuator .....Brass-"J" Lead
Brass nickel plate-gullwing
Contacts:
Moving .....Stainless Steel, Silver Clad-Plate
Fixed/Terminal .....Copper Alloy, Silver-Plate
Case .....Nylon, UL94V-0

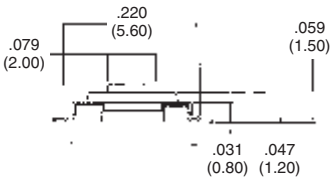
ENVIRONMENTAL SPECIFICATIONS:

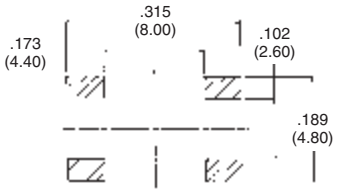
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-22 to +185°F (-30 to +85°C)
Resistance to solder heat .....Per EIA-364-56A, Procedure 4 & 5, Level 3
Solderability .....Per EIA-364-52, Class 2, Category 1, Temp. 473°F (245°C) max., Time 2.5 seconds max., 95% minimum coverage.

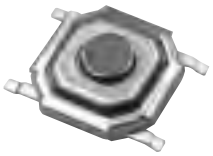
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....20mA @ 15VDC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC for 1 minute
Actuation Travel .....0.25 +0.1/-0.2
Life Expectancy .....Up to 500,000 and 1,000,000 Cycles









Tyco Electronics	Alcoswitch	Type	Force	Life Cycle
8-1437565-0	FSMCTTR	SPST	160±50	1,000,000
8-1437565-1	FSMCTATR	SPST	260±50	500,000

"J" lead option in development. Contact factory for additional information.

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Low Profile, 6 x 6 SMT J-Lead, Extended Life

MATERIAL SPECIFICATIONS:

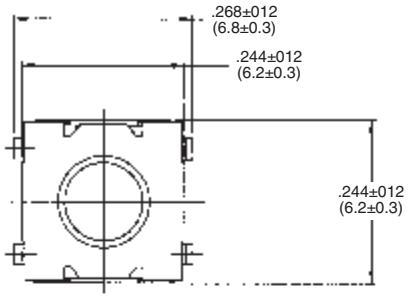
Cover .....Stainless Steel
Stem/Actuator .....Nylon UL94V-0
Contacts:
Moving .....Stainless Steel, Silver Clad-Plate
Fixed/Terminal .....Copper Alloy, Silver-Plate
Case .....Thermoplastic, UL94V-0, Black

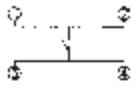
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC for 1 minute
Actuation Travel .....0.008 +/-.004 (.2 +/-.10)

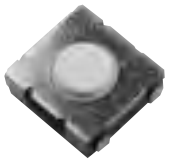
ENVIRONMENTAL SPECIFICATIONS:

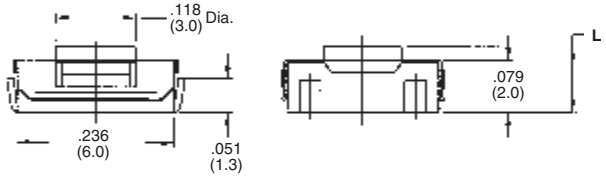
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-22 to +185°F (-30 to +85°C)
Resistance to solder heat .....Per EIA-364-56A, Procedure 4 & 5, Level 3
Solderability .....Per EIA-364-52, Class 2, Category 1, Temp 473°F (245°C), 95% minimum coverage.

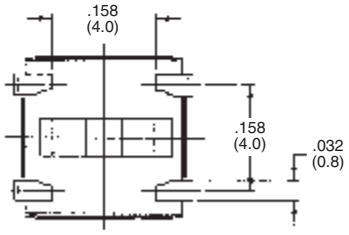


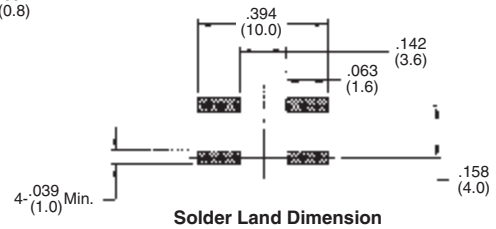


Circuit Diagram









Solder Land Dimension

Tyco Electronics	Dim L	Force	Life	Packaging
1571625-1	.098 (2.5)	50gf	2,000,000	Bulk
1571625-2	.098 (2.5)	50gf	2,000,000	T&R
1571625-3	.098 (2.5)	100gf	1,000,000	Bulk
1571625-4	.098 (2.5)	100gf	1,000,000	T&R
1571625-5	.098 (2.5)	160gf	1,000,000	Bulk
1571625-6	.098 (2.5)	160gf	1,000,000	T&R
1571625-7	.098 (2.5)	260gf	100,000	Bulk
1571625-8	.098 (2.5)	260gf	100,000	T&R

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Low Profile, 6 x 6 SMT, Gull Wing, Extended Life

MATERIAL SPECIFICATIONS:

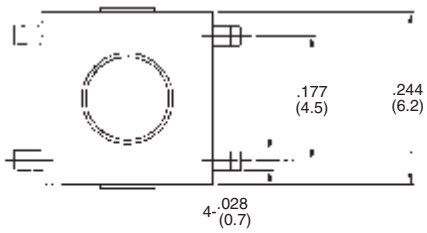
Cover .....Copper Alloy, Tin Lead Plate
Stem/Actuator .....Nylon UL94V-0
Contacts:
Moving .....Stainless Steel, Silver Clad-Plate
Fixed/Terminal .....Copper Alloy, Silver-Plate
Case .....Thermoplastic, UL94V-0, Black

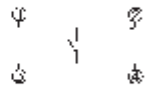
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC for 1 minute
Actuation Travel .....0.010 +/-.004 (.25 +/-.10)

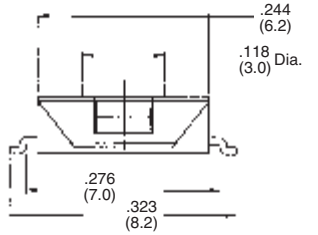
ENVIRONMENTAL SPECIFICATIONS:

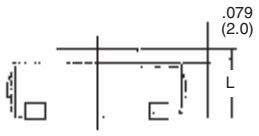
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-22 to +185°F (-30 to +85°C)
Resistance to solder heat .....Per EIA-364-56A, Procedure 4 & 5, Level 3
Solderability .....Per EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.

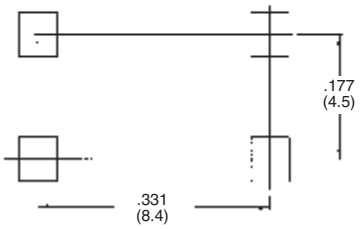




Circuit Diagram







PCB Mounting Solder Land Dimension

Tyco Electronics	Dim L	Force	Life	Packaging
1571626-1	.098 (2.5)	50gf	1,000,000	Bulk
1571626-2	.098 (2.5)	50gf	1,000,000	T&R
1571626-3	.098 (2.5)	100gf	1,000,000	Bulk
1571626-4	.098 (2.5)	100gf	1,000,000	T&R
1571626-5	.098 (2.5)	160gf	1,000,000	Bulk
1571626-6	.098 (2.5)	160gf	1,000,000	T&R
1571626-7	.079 (2.0)	160gf	1,000,000	Bulk
1571626-8	.079 (2.0)	160gf	1,000,000	T&R
1571626-9	.098 (2.5)	260gf	100,000	Bulk
1-1571626-0	.098 (2.5)	260gf	100,000	T&R

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Low Profile, 6 x 6 SMT, Gull Wing w/ESD Terminal, Extended Life

MATERIAL SPECIFICATIONS:

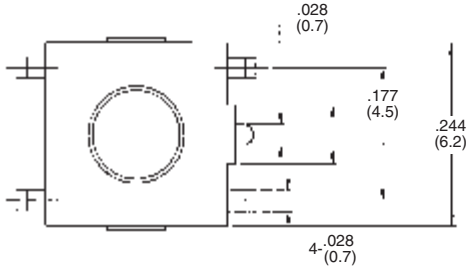
Cover .....Copper Alloy, Tin Lead Plate
Stem/Actuator .....Nylon UL94V-0
Contacts:
Moving .....Stainless Steel, Silver Clad-Plate
Fixed/Terminal .....Copper Alloy, Silver-Plate
Case .....Thermoplastic, UL94V-0, Black

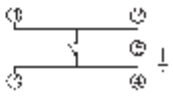
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100V DC Min.
Dielectric Strength .....500 VAC for 1 minute
Actuation Travel .....0.010 +/-.004 (.25 +/-.10)

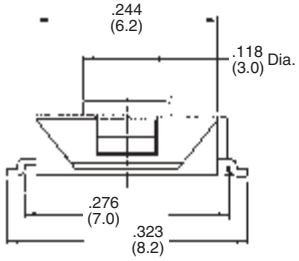
ENVIRONMENTAL SPECIFICATIONS:

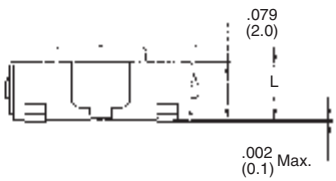
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-22 to +185°F (-30 to +85°C)
Resistance to solder heat .....Per EIA-364-56A, Procedure 4 & 5, Level 3
Solderability .....Per EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.

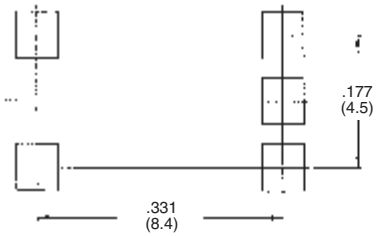




Circuit Diagram







PCB Mounting Solder Land Dimension

Tyco Electronics	Dim L	Force	Life	Packaging
1571636-1	.098 (2.5)	50gf	1,000,000	Bulk
1571636-2	.098 (2.5)	50gf	1,000,000	T&R
1571636-3	.098 (2.5)	100gf	1,000,000	Bulk
1571636-4	.098 (2.5)	100gf	1,000,000	T&R
1571636-5	.098 (2.5)	160gf	1,000,000	Bulk
1571636-6	.098 (2.5)	160gf	1,000,000	T&R
1571636-7	.079 (2.0)	160gf	1,000,000	Bulk
1571636-8	.079 (2.0)	160gf	1,000,000	T&R
1571636-9	.098 (2.5)	260gf	100,000	Bulk
1-1571636-0	.098 (2.5)	260gf	100,000	T&R

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .236 [6] x .236 [6], Low Profile, Surface Mount

MATERIAL SPECIFICATIONS:

Contacts .....Copper Alloy, silver clad plated
Case Material .....PPS
Stem .....PPS
Cover.....Steel, tin-plate
Terminals .....Copper alloy, silver plated

ENVIRONMENTAL SPECIFICATIONS:

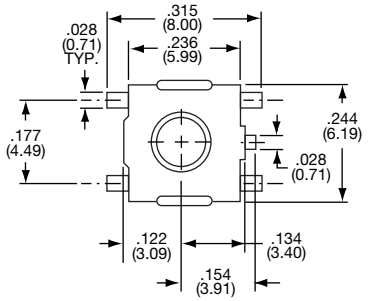
Operating Temperature.....-4ºF to +185°F (-20°C to +85ºC)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance .....IR Soldering EIA-364-56
Procedure 5 Level 2, 464°F (240°C)

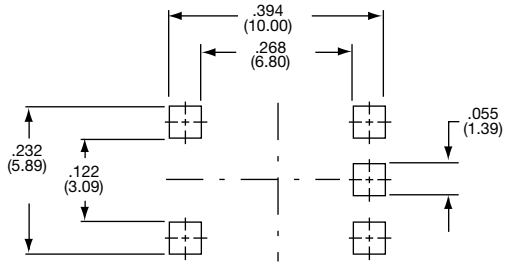
TYPICAL PERFORMANCE CHARACTERISTICS:

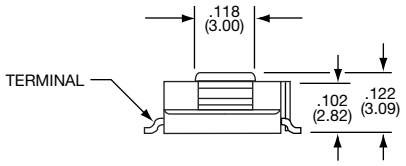
Contact Rating .....50mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC. 1 minute
Actuation Force .....See Below.
Life Expectancy .....Up to 100,000 Cycles

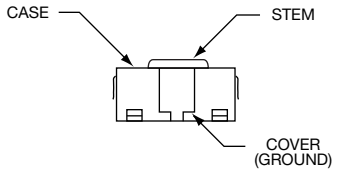


FSM1LP



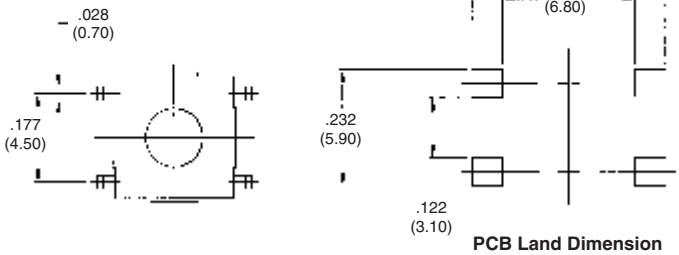






Tyco Electronics	Alcoswitch	Force	Actuator Packaging
1-1437565-6	FSM1LP	160	Bulk
1-1437565-7	FSM1LPA	260	Bulk
1-1437565-9	FSM1LPTR	160	Tape & Reel
1-1437565-8	FSM1LPATR	260	Tape & Reel
1571621-1	FSM4LP	260	Bulk
4-1437565-3	FSM4LPTR	260	Tape & Reel

FSM4LP



PCB Land Dimension

E15

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .472 [12] x .472 [12], Flush or Extended Actuators

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver clad plate
Case.....PBT
Actuator Button .....Polyacetal Resin
Cover.....PET film
Terminals .....Copper alloy, silver plate
Frame (R/A) .....Nylon

ENVIRONMENTAL SPECIFICATIONS

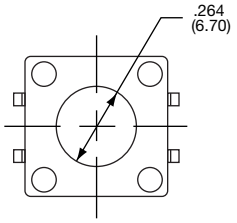
Operating Temperature.....4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance .....See Page M3-4

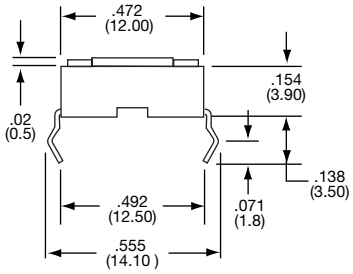
TYPICAL PERFORMANCE CHARACTERISTICS:

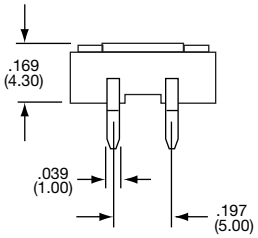
Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See below
Actuator Travel.....0.012"(0.3)
Life Expectancy .....Up to 100,000 cycles

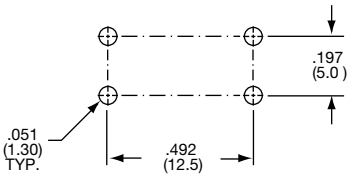


FSM100





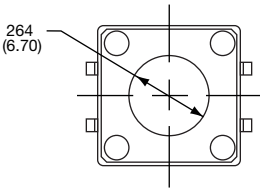


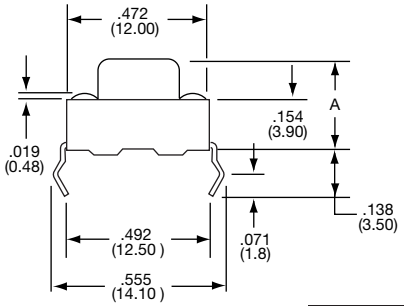


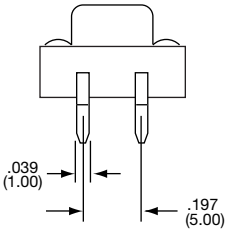
Tyco Electronics	Alcoswitch	Type			Force
1437565-2	FSM100	SPST	Off	(On)	160±50gf
1571139-1	FSM100A	SPST	Off	(On)	260±50gf
	(On) indicates momentary position.				

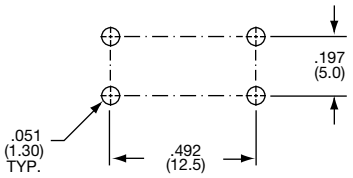


FSM101









Tyco Electronics	Alcoswitch	Type			Force	Dim A
1437565-3	FSM101	SPST	Off	(On)	160±50gf	.295 [7.5mm]
1571140-1	FSM201A	SPST	Off	(On)	260±50gf	.335 [8.5mm]
	(On) indicates momentary position.					

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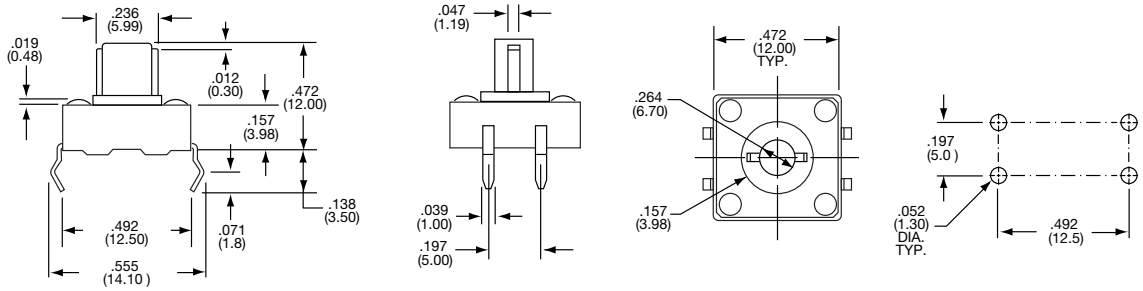
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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, .472 [12] x .472 [12], Vertical or Right Angle



FSM102

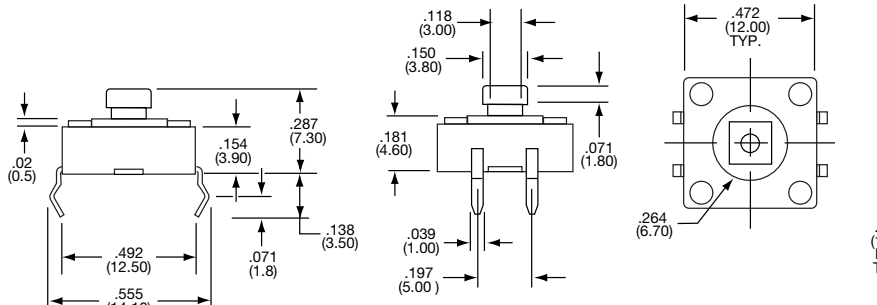


Tyco Electronics	Alcoswitch	Type			Force
1437565-4	FSM102	SPST	Off	(On)	160±50gf
1571061-1	FSM102A	SPST	Off	(On)	260±50gf

(On) indicates momentary position.



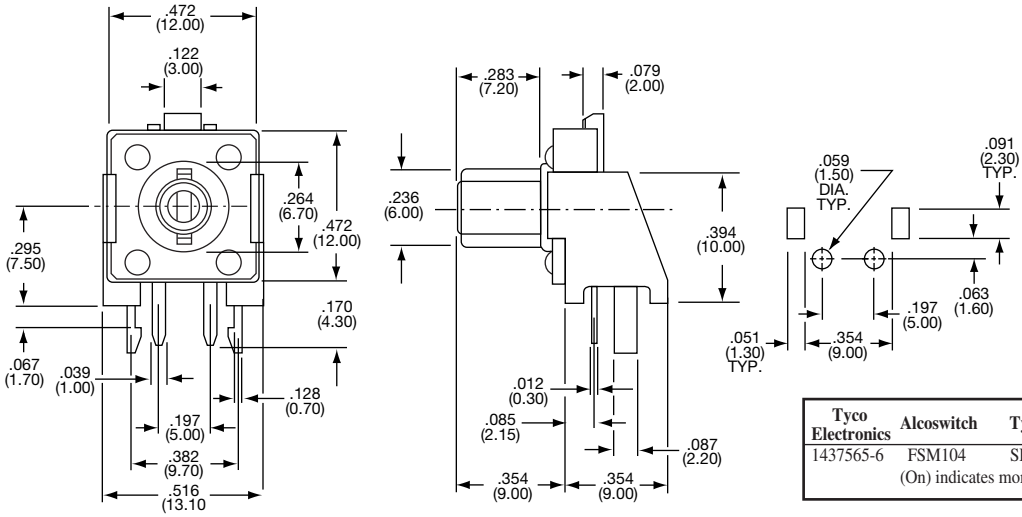
FSM103



Tyco Electronics	Alcoswitch	Type			Force
1437565-5	FSM103	SPST	Off	(On)	160±50gf

(On) indicates momentary position.





Tyco Electronics	Alcoswitch	Type			Force
1437565-6	FSM104	SPST	Off	(On)	160±50gf

(On) indicates momentary position.

E17

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Projected Actuator

MATERIAL SPECIFICATIONS:

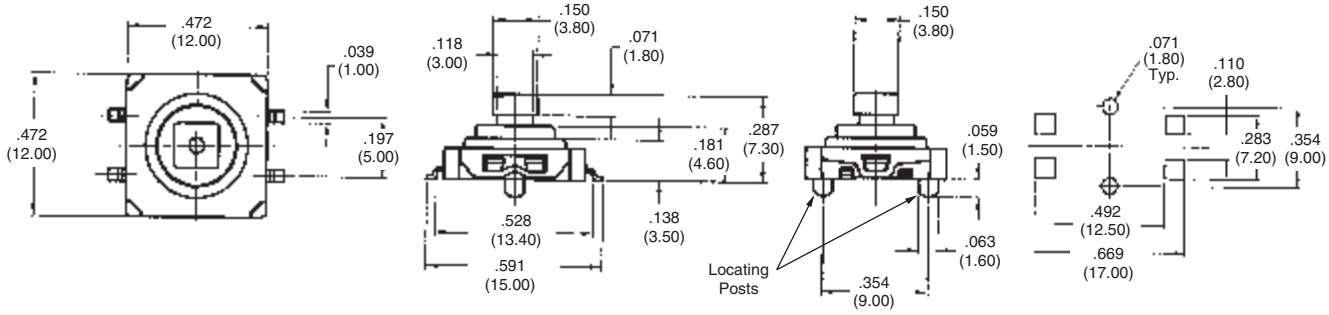
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +70°C)
Storage Temperature .....-4 to +185°F (-20 to +70°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571217-1	No	Bulk	.287 (7.30)	160±70gf
1571217-2	Yes	Bulk	.287 (7.30)	160±70gf
1571217-3	No	T&R	.287 (7.30)	160±70gf
1571217-4	Yes	T&R	.287 (7.30)	160±70gf

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Flush, Actuator

MATERIAL SPECIFICATIONS:

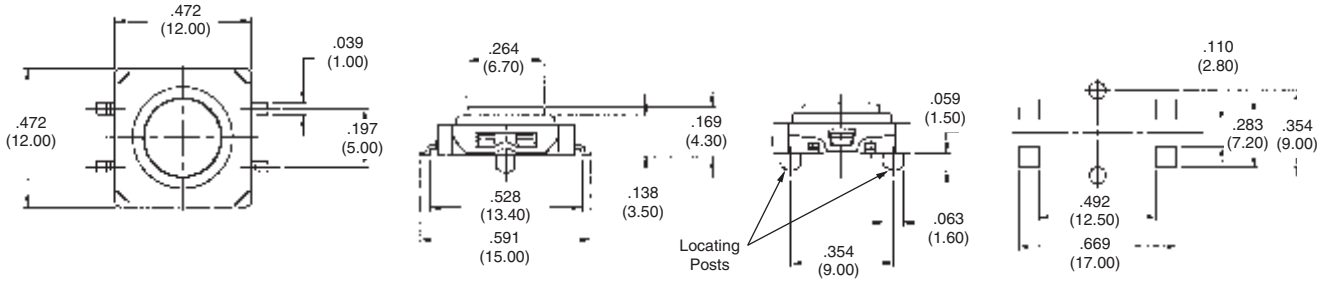
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67



Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571218-1	No	Bulk	.169 (4.30)	160±70gf
1571218-2	Yes	Bulk	.169 (4.30)	160±70gf
1571218-3	No	T&R	.169 (4.30)	160±70gf
1571218-4	Yes	T&R	.169 (4.30)	160±70gf

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Projected Actuator

MATERIAL SPECIFICATIONS:

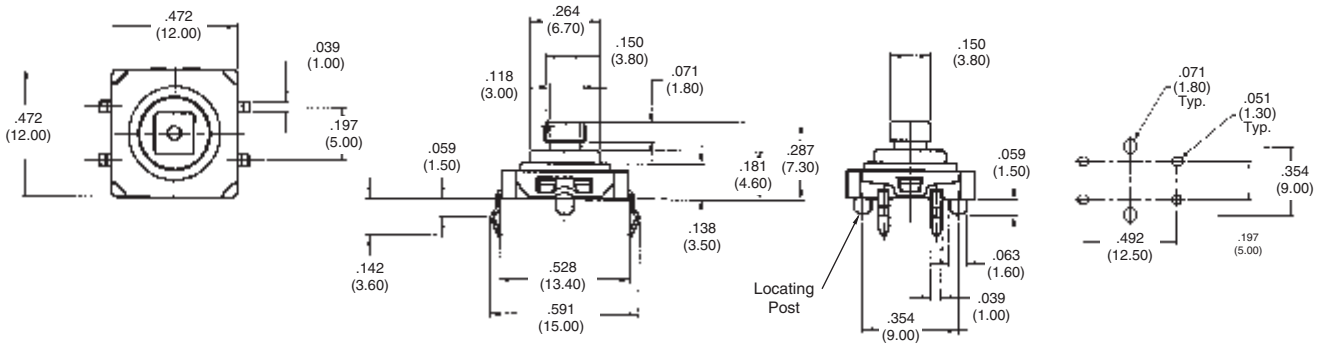
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

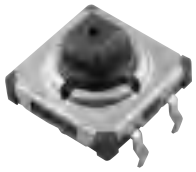
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 3, Test Cond. B
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571219-1	No	Bulk	.287 (7.30)	160±70gf
1571219-2	Yes	Bulk	.287 (7.30)	160±70gf

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Flush Actuator

MATERIAL SPECIFICATIONS:

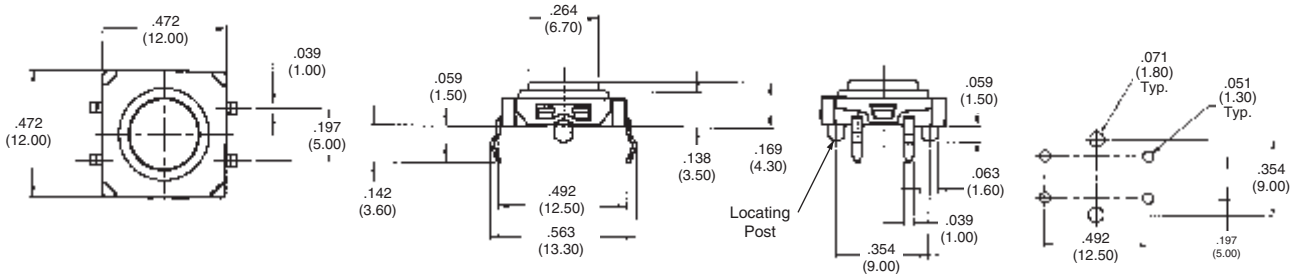
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

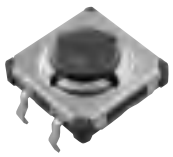
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 3, Test Cond. B
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571220-1	No	Bulk	.169 (4.30)	160±70gf
1571220-2	Yes	Bulk	.169 (4.30)	160±70gf

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Extended Actuator

MATERIAL SPECIFICATIONS:

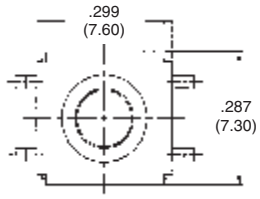
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver

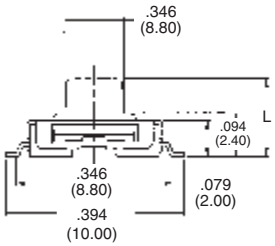
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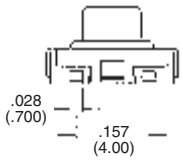
Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

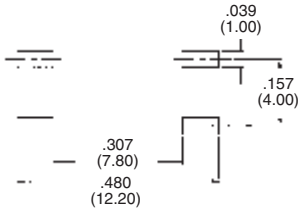
ENVIRONMENTAL SPECIFICATIONS:

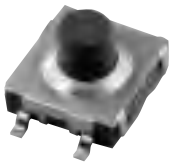
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67











Tyco Electronics	Packaging	L	Force
1571294-1	Bulk	.169 (4.30)	160±50gf
1571294-2	T&R	.169 (4.30)	160±50gf
1571294-3	Bulk	.197 (5.00)	160±50gf
1571294-4	T&R	.197 (5.00)	160±50gf

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Flush Actuator

MATERIAL SPECIFICATIONS:

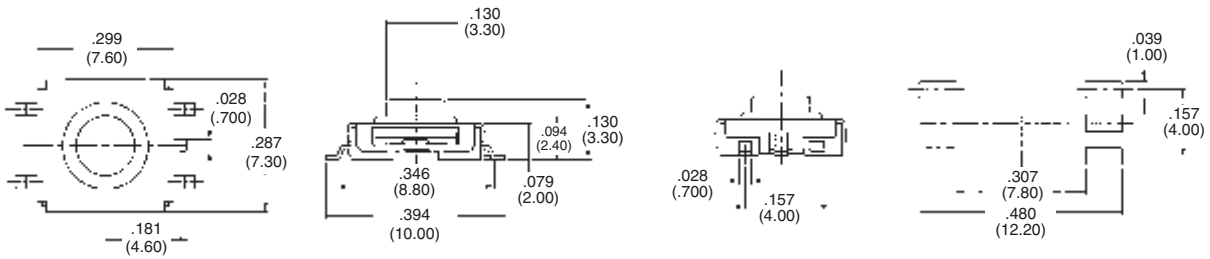
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

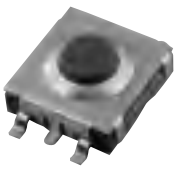
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Packaging	Actuator Height	Force
1571296-1	Bulk	.130 (3.30)	160±50gf
1571296-2	T&R	.130 (3.30)	160±50gf

E
Sealed Tactile Switches

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Thru-Hole, Extended Actuator

MATERIAL SPECIFICATIONS:

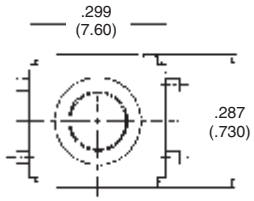
Case .....Thermoplastic, UL94V-0, Black
Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

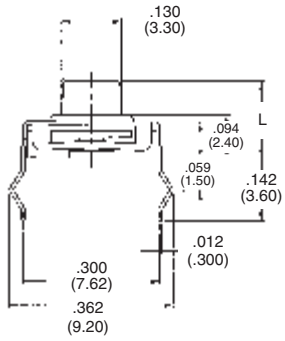
TYPICAL PERFORMANCE CHARACTERISTICS:

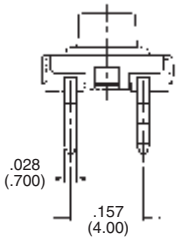
Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

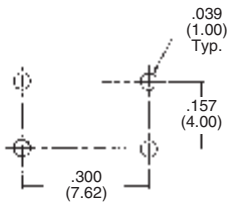
ENVIRONMENTAL SPECIFICATIONS:

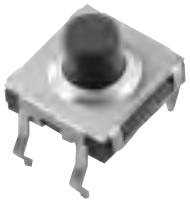
Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 3, Test Cond.B
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67











Tyco Electronics	Packaging	L	Force
1571295-1	Bulk	.169 (4.30)	160±50gf
1571295-2	Bulk	.197 (5.00)	160±50gf

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

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C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Surface Mount

MATERIAL SPECIFICATIONS:

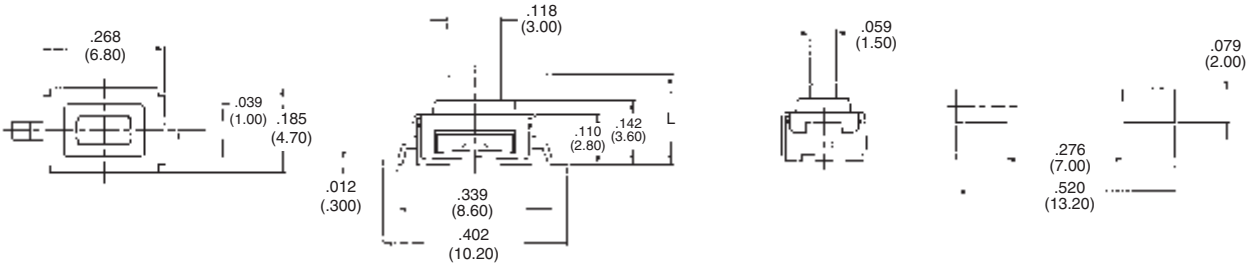
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

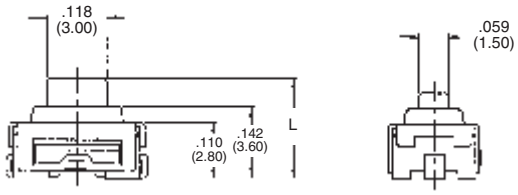
TYPICAL PERFORMANCE CHARACTERISTICS:

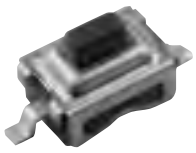
Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67







Tyco Electronics	Packaging	L	Operating Force	Lead Style
1571298-1	Bulk	.197 (5.00)	130 ± 50gf	Gull Wing
1571298-2	T&R	.197 (5.00)	130 ± 50gf	Gull Wing
1571299-1	Bulk	.169 (4.30)	130 ± 50gf	J Lead
1571299-2	T&R	.169 (4.30)	130 ± 50gf	J Lead
1571299-3	Bulk	.197 (5.00)	130 ± 50gf	J Lead
1571299-4	T&R	.197 (5.00)	130 ± 50gf	J Lead

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Thru-Hole

MATERIAL SPECIFICATIONS:

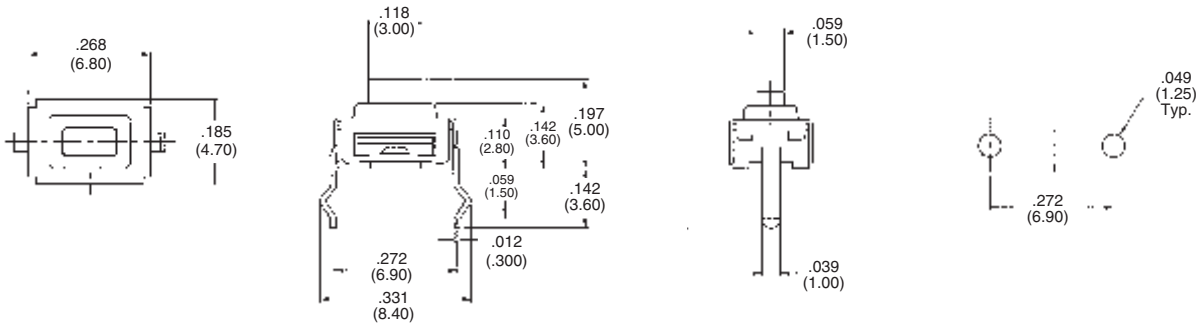
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4 to +185°F (-20 to +85°C)
Storage Temperature .....-4 to +185°F (-20 to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 3, Test Cond. B
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Packaging	Actuator Height	Operating Force
1571297-1	Bulk	.197 (5.00)	130 ± 50gf

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

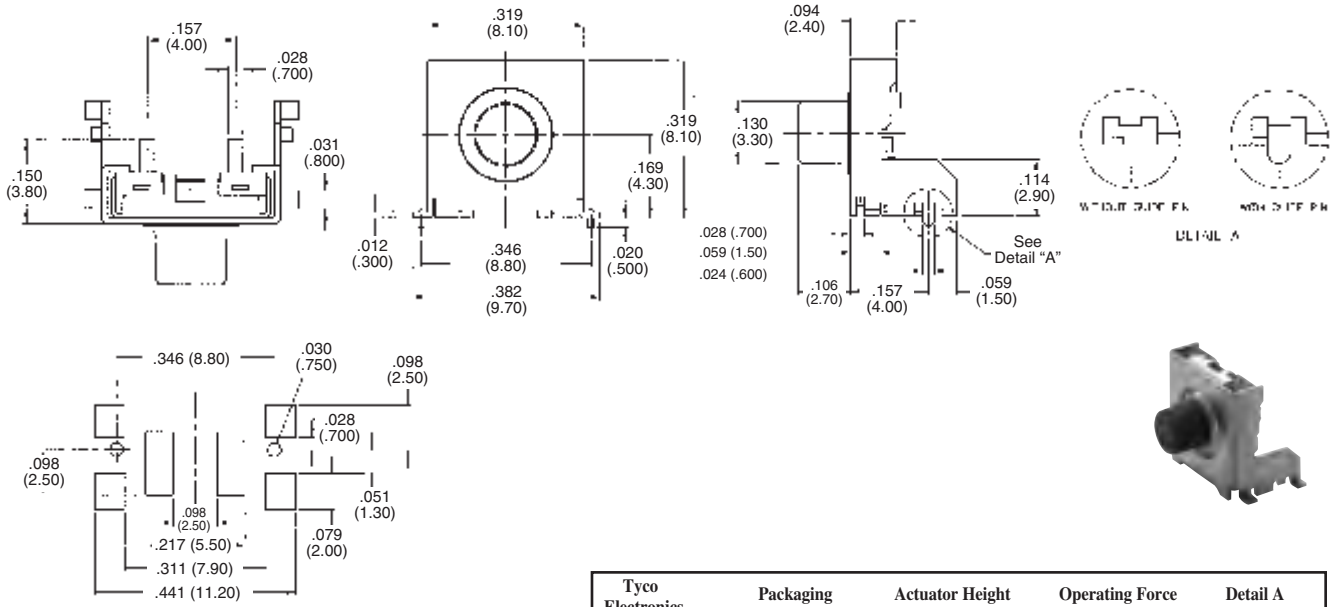
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4° to +185°F (-20°to +85°C)
Storage Temperature .....-4° to +185°F (-20°to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67



Tyco Electronics	Packaging	Actuator Height	Operating Force	Detail A
1571300-1	Bulk	.106 (2.70)	130 ± 50gf	Without Pin
1571300-2	Bulk	.106 (2.70)	130 ± 50gf	With Pin

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

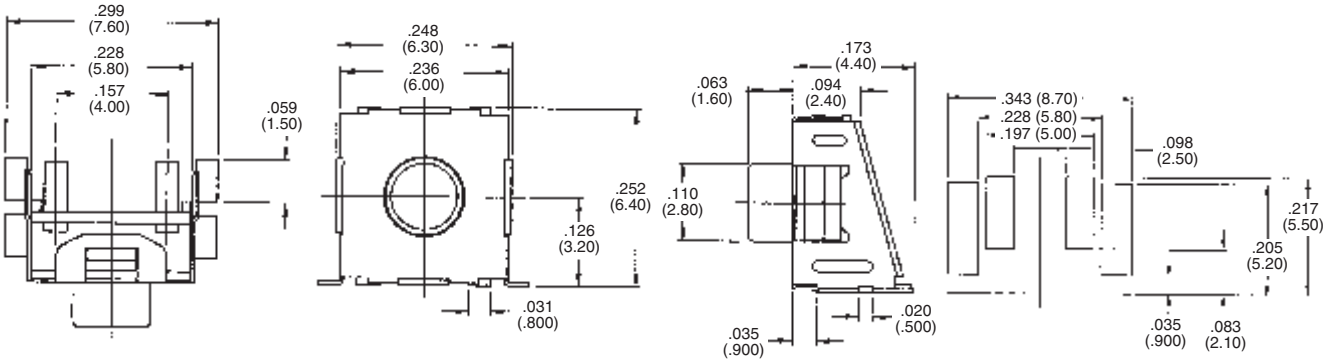
Case .....Thermoplastic, UL94V-0, Black
Stem/Actuator .....Thermoplastic, UL94V-0, Black
Cover .....Stainless Steel
Seal .....Silicone Rubber, Black
Contact.....Stainless Steel, Plating—Silver
Terminal .....Copper Alloy, Plating—Silver

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance.....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC
Actuation Travel.....0.014 +/-.008 (.35 +/-.20)
Life .....Up to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4° to +185°F (-20°to +85°C)
Storage Temperature .....-4° to +185°F (-20°to +85°C)
Resistance to solder heat .....Per EIA-364-56, Procedure 4 & 5, Level 3
Solderability .....Per EIA RS–186–9E
Seal .....Per IP67





Tyco Electronics	Packaging	Actuator Height	Operating Force
1571407-1	Bulk	.063 (1.60)	260 ± 100gf
1571407-2	T&R	.063 (1.60)	260 ± 100gf

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Tactile Switches, Side Actuated, Surface Mount

MATERIAL SPECIFICATIONS:

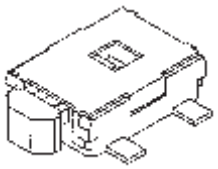
Case .....Nylon 4/6, UL94V-0, Black
Stem/Actuator .....Nylon 4/6, UL94V-0, Black
Cover .....Stainless Steel
Contact Plate .....Stainless Steel, Silver Clad Over Nickel Plate
Terminal .....Copper Alloy, Silver Over Nickel Plate

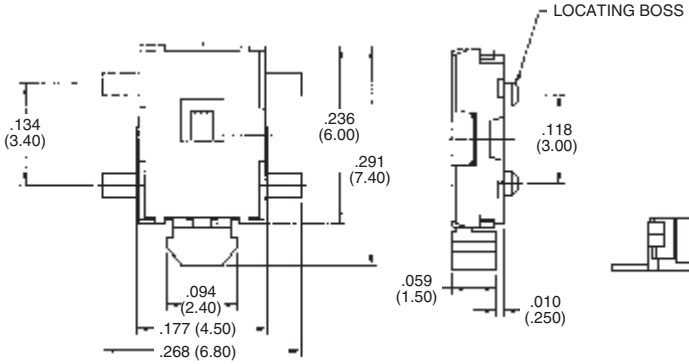
TYPICAL PERFORMANCE CHARACTERISTICS:

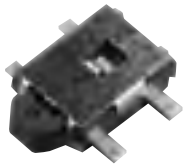
Contact Rating .....50mA @ 12 V DC
Initial Contact Resistance .....100MilliOhms Max
Insulation Resistance .....100Megaohms @ 100VDC Min.
Dielectric Strength .....500 VAC for 1 minute
Force .....160 (+70/-40gm)
Travel .....30 (+.1/-.2mm)
Life .....Up to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4° to +185°F (-20°to +85°C)
Storage Temperature .....-22° to +185°F (-30°to +85°C)
Resistance to Solder Heat .....Per EIA-364-56A, procedure 4 and 5, Level 3
Solderability .....Per EIA-364-52, Class 2, Category 1, Temp. 473°F (245°C) max., time 2.5 sec. max., 95% min. coverage.







Tyco Electronics	Feature	Packaging
1571262-1	W/O Boss	Bulk
1571262-2	W/O Boss	T&R
1571262-3	with Boss	Bulk
1571262-4	with Boss	T&R

E
Side Actuated Tactile Switches

Catalog 1308390
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Multi-Directional Actuation

MATERIAL SPECIFICATIONS:

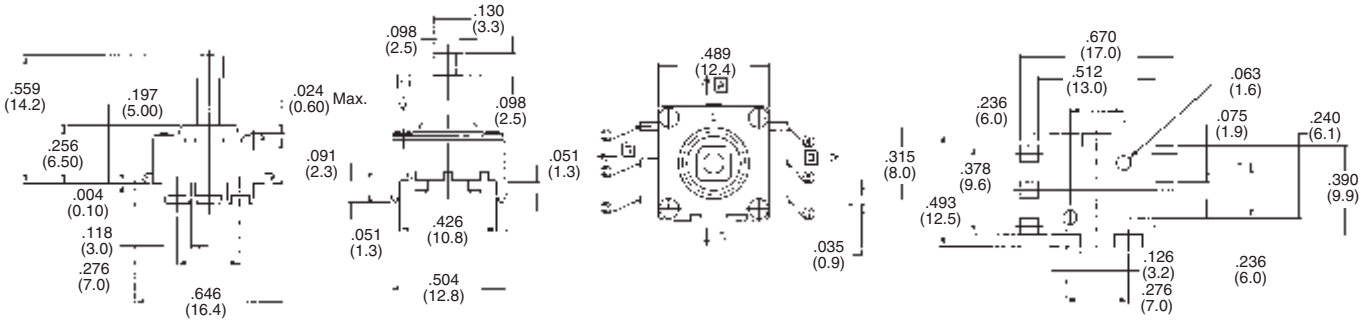
Contact .....Copper alloy - silver clad/nickel
Case Material .....Nylon - UL 94-HB, Black
Actuator Material .....Nylon - UL 94-HB, Black
Terminals/Fixed Contact .....Copper alloy - plate silver clad/nickel

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....-13° to 158°F (-25° to +70°C)
Storage Temperature .....-40° to 185°F (-40° to +85°C)
Solder Heat Resistance.....Per EIA-364-56A, Procedure 4 and 5, Level 3
Solderability .....Per EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....20mA@15VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohm min.
Dielectric Strength .....100 VAC for 1 min.
Life Expectancy .....Up to 50,000 Cycles
Actuation Force .....500±150 gf (center push), 200±100 gf (4-directional)
Actuation Travel.....0.039 (1.0) ±.012 (.3) (4-directional), 0.315 (8.0) ±2° (4-directional)





Tyco Electronics	Dimension L
1571514-1	.559 (14.2)
1571514-2	.480 (12.2)
1571514-3	.413 (10.5)

MATERIAL SPECIFICATIONS:

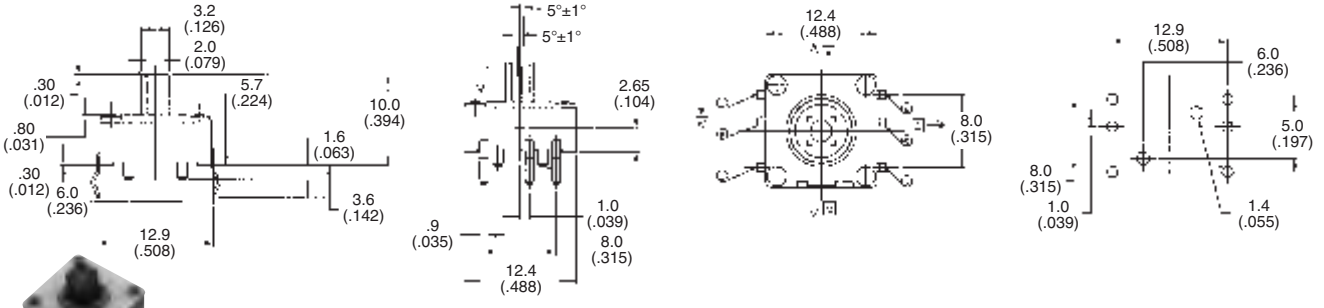
Contacts.....Stainless steel, plate silver clad/nickel
Case Material .....Nylon - UL 94-HB, Black
Actuator Material .....PBT, UL 94-HB
Terminals/Fixed Contacts .....Copper alloy - plate silver/nickel

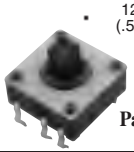
Environmental Specifications

Operating Temperature .....-13° to 158°F (-25° to +70°C)
Storage Temperature.....-40° to 185°F (-40° to +85°C)
Solder Heat Resistance .....Per EIA-364-56A, Procedure 3, Condition B
Solderability .....Per EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....20mA@15VDC
Initial Contact Resistance .....100 Milliohms max.
Insulation Resistance .....100 Megohm min.
Dielectric Strength .....100 VAC for 1 min.
Life Expectancy .....Up to 50,000 Cycles
Actuation Force .....350±100 gf (center push), 200±70/-50 gf (4-directional)
Actuation Travel.....0.010 (.25) ±.008 (.2) (center push), 0.197 (5.0) ±1° (4-directional)





Part Number 1571515-1

Catalog 1308390
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TRD Series - Page F3



Gemini Series - Page F7



Power Rocker Switches - Page F21

Rocker/Paddle

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UK: 44-141-810-8967

Rocker/Paddle Switches Part Number Index

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A101J16WQ00 ..... F7
A101J16Z3G00UL F7
A101J16Z3Q00UL F7
A101J16ZB00 ..... F7
A101J16ZQ00 ..... F7
A101J1AB0 ..... F7
A101J1AQ0 ..... F14
A101J1AQ2 ..... F7
A101J1AV2B0 ..... F7
A101J1AV2Q0 ..... F13
A101J1CG0 ..... F7
A101J1CQ0 ..... F13
A101J1V3B0 ..... F7
A101J1V3Q0 ..... F7
A101J1ZB0 ..... F7
A101J1ZQ0 ..... F14
A101J2AQ0 ..... F15
A101J2AV2Q0 ..... F16
A101J2ZB9 ..... F7
A101J2ZQ0 ..... F15
A101J3V3Q2 ..... F7
A101J3ZQ0UL F7
A101J4ZQ0 ..... F7
A101J50AV2Q0 ..... F7
A101J50V3Q0 ..... F7
A101J50V3Q2 ..... F7
A101J50ZQ0 ..... F7
A101J51CB00 ..... F7
A101J51Z3G00UL F7
A101J51Z3Q00 ..... F7
A101J51Z3Q00UL F7
A101J51ZB00 ..... F7
A101J51ZQ00 ..... F7
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A101J61ZQ00 ..... F7
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A103J1AV2Q0 ..... F7
A103J1V3Q0 ..... F7
A103J1ZQ0 ..... F14
A103J2AQ0 ..... F15
A103J2CB0 ..... F7
A103J2ZQ0 ..... F15
A103J3ZQ0 ..... F7
A103J51ZQ00 ..... F7
A103J61ZQ00 ..... F7
A105J16CQ00 ..... F7
A105J16ZQ00 ..... F7
A105J1AQ0 ..... F14
A105J1AV2Q0 ..... F7,F13
A105J1CQ0 ..... F13
A105J1V3B0 ..... F7
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A105J2AQ0 ..... F15
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A108J51ZQ00 ..... F7
A108J61ZQ00 ..... F7
A201J16ZQ00 ..... F7
A201J1AQ0 ..... F14
A201J1AQ2 ..... F7
A201J1AV2Q0 ..... F7,F13
A201J1CQ0 ..... F13
A201J1V3Q0 ..... F7
A201J1ZQ0 ..... F14
A201J2AQ0 ..... F15
A201J2AV2Q0 ..... F16
A201J2CQ0 ..... F16
A201J2ZQ0 ..... F15
A201J3V3Q0 ..... F7
A201J3ZB0 ..... F7
A201J3ZQ0 ..... F7
A201J50AQ0 ..... F7
A201J50AV2Q0 ..... F7
A201J50ZQ0 ..... F7
A201J51ZQ00 ..... F7
A201J51ZQ00UL F7
A201J51ZQ99 ..... F7
A201J61ZQ00 ..... F7
A203J1AQ0 ..... F14
A203J1AV2Q0 ..... F7
A203J1CQ0 ..... F13
A203J1CQ2 ..... F7
A203J1ZQ0 ..... F14
A203J2AQ0 ..... F7,F15
A203J2ZQ0 ..... F15
A203J51ZQ00 ..... F7
A203J61ZQ00 ..... F7
A205J15ZQ00 ..... F7
A205J1AQ0 ..... F14
A205J1AV2Q0 ..... F13
A205J1CQ0 ..... F13
A205J1ZQ0 ..... F7,F14
A205J2AQ0 ..... F15
A205J2CQ0 ..... F16
A205J2ZQ0 ..... F15
A205J51ZQ00 ..... F7
A205J61ZQ00 ..... F7
A207J1ZQ0 ..... F7
A207J3ZQ0 ..... F7
A207J51ZQ00 ..... F7
A207J61ZQ00 ..... F7
A208J16CQ00UL F7
A208J1V3Q0 ..... F7
A208J51ZQ00 ..... F7
A208J61ZQ00 ..... F7
A211J51ZQ0 ..... F7
A213J61ZQ00 ..... F7
AE101J1AB0 ..... F17
AE101J1AG0UL F17
AE101J1AQ0 ..... F17
AE101J1AQ4UL F17
AE101J1AV2G0 ..... F17
AE101J1AV2Q0 ..... F17
AE101J1V3B0 ..... F17
AE101J1V3Q0 ..... F17
AE103J1V3Q0 ..... F17
AE103J2CB0 ..... F17
AE103J50V3B0 ..... F17
AE103J60V3Q02 ..... F17
AE105J1AQ0 ..... F17
AE105J1V3B0 ..... F17
AE105J1V3Q0 ..... F17
AE105J1ZB0 ..... F17
AE105J60V3B0 ..... F17
AE107J1AQ0 ..... F17
AE107J1ZQ0 ..... F17
AE108J1CQ0 ..... F17
AE108J1ZQ0 ..... F17
AE108J60V3B0 ..... F17
AE201J1AQ0 ..... F17
AE201J1AV2G0UL F17
AE201J1AV2Q0 ..... F17
AE201J1V3B0 ..... F17
AE201J2AQ2 ..... F17
AE203J1AQ0 ..... F17
AE205J50V3B0 ..... F17
AE205J60V3B0 ..... F17
AE208J50V3B0 ..... F17
PRADA1-07F-BB000 ..... F22
PRADA1-07F-BB0BW F22
PRADA1-07F-BB0CW F22
PRADA1-07F-BR000 ..... F22
PRADA1-07F-BR0BW F22
PRADD1-07F-BB000 ..... F22
PRADD1-07F-BB0DW F22
PRADD1-07F-BB0EW F22
PRADD2-07F-BB000 ..... F22
PRADD2-07F-BB0DW F22
PRADD2-07F-BB0EW F22
PRADD3-07F-BB000 ..... F22
PRADD3-07F-BB0FW F22
PRADD3-07F-BB0GW F22
PRADD4-07F-BB000 ..... F22
PRADD4-07F-BB0FW F22
PRADD4-07F-BB0GW F22
PRASA1-16F-BB000 ..... F22
PRASA1-16F-BB0BW F22
PRASA1-16F-BB0CW F22
PRASA1-16F-BB0HW F22
PRASA1-16F-BR000 ..... F22
PRASA1-16L-BB000 ..... F22
PRASA1-16L-BB0BW F22
PRASA1-16L-BB0CW F22
PRASA1-16L-BR000 ..... F22
PRASA2-16F-BBRBR F22
PRASA3-16F-BB0JW F22
PRASB1-16F-BR000 ..... F22
PRASB2-16F-BBR00 ..... F22
PRASC1-16F-BBR00 ..... F22
PRASD1-16F-BB000 ..... F22
PRASD1-16F-BB0DW F22
PRASD1-16F-BB0EW F22
PRASD2-16F-BB000 ..... F22
PRASD2-16F-BB0DW F22
PRASD2-16F-BB0EW F22
PRASD3-16F-BB000 ..... F22
PRASD3-16F-BB0FW F22
PRASD3-16F-BB0GW F22
PRASD4-16F-BB000 ..... F22
PRASD4-16F-BB0FW F22
PRASD4-16F-BB0GW F22
PRBSA1-16F-BB000 ..... F23
PRBSA1-16F-BB0BW F23
PRBSA1-16F-BB0CW F23
PRBSA1-16F-BB0HW F23
PRBSA1-16F-BR000 ..... F23
PRBSA1-16F-BR0HW F23
PRBSA1-16F-BW000 ..... F23
PRBSA1-16F-BW0HB F23
PRBSA1-16L-BB000 ..... F23
PRBSA1-16L-BB0BW F23
PRBSA1-16L-BB0CW F23
PRBSA1-16L-BR000 ..... F23
PRBSB1-16F-BA000 ..... F23
PRBSB1-16F-BC000 ..... F23
PRBSB1-16F-BR000 ..... F23
PRBSB1-16F-BR0BW F23
PRBSC1-16F-BBR00 ..... F23
PRBSC1-16L-BBR00 ..... F23
PRBSD1-16F-BB000 ..... F23
PRBSD1-16F-BB0DW F23
PRBSD1-16F-BB0EW F23
PRBSD3-16F-BB000 ..... F23
PRBSD3-16F-BB0FW F23
PRBSD3-16F-BB0GW F23
PRBSD3-16F-BW000 ..... F23
PRDDA1-16F-BB000 ..... F24
PRDDA1-16F-BB0BW F24
PRDDA1-16F-BB0CW F24
PRDDA1-16F-BB0HW F24
PRDDA1-16F-BR000 ..... F24
PRDDA1-16F-BR0HW F24
PRDDB1-16F-BA000 ..... F24
PRDDB1-16F-BR000 ..... F24
PRDDD1-16F-BB000 ..... F24
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PRDDD3-16F-BR000 ..... F24
TRD11D1(*)WL F6
TRD11D10PC F3
TRD11D10PCLR25 ..... F3
TRD11D10QC F3
TRD11D10QC5LR5 ..... F3
TRD11D10QCL2 ..... F3
TRD11D10QCL5 ..... F3
TRD11D10QCLR2 ..... F3
TRD11D10WL F6
TRD11D10WLLR F6
TRD11D10WLLR5 ..... F6
TRD11D12WL F3
TRD11E1(*)WL F6
TRD11E10WL F6
TRD11E10WLLR F6
TRD11E10WLLR25 ..... F6
TRD11F1(*)WL F6
TRD11F10QC F3
TRD11F10QCL2 ..... F3
TRD11F10QCLR2 ..... F3
TRD11F10WL F6
TRD11F10WLLR F6
TRD11F20QC F3
TRD11G10QC5 ..... F3
TRD11G10WL F3
TRD11G20QC F3
TRD13D1(*)WL F6
TRD13D10QC F3
TRD13D10QCL5 ..... F3
TRD13D10QCL5UL F3
TRD13D10QCLR2 ..... F3
TRD13D10QCLR25 ..... F3
TRD13D10QCLR5 ..... F3
TRD13D10WL F6
TRD13D10WL5L2 ..... F3
TRD13D10WLL2 ..... F3
TRD13D10WLLR F6
TRD13D10WLLR2 ..... F6
TRD13D10WLLR25 ..... F6
TRD13D10WLLR4 ..... F3
TRD13D10WLLR5 ..... F3
TRD13D10WLUL F3
TRD13D12QC F3
TRD13D12QC5 ..... F3
TRD13D12QCLR25 ..... F3
TRD13D12WL F3
TRD13D12WL5LR2 ..... F3
TRD13E1(*)WL F6
TRD13E10QC F3
TRD13E10WL F6
TRD13E10WL5 ..... F6
TRD13E10WLLR F6
TRD13E10WLLR2 ..... F6
TRD13F1(*)WL F6
TRD13F10QC F3
TRD13F10QCLR2 ..... F3
TRD13F10WL F6
TRD13F10WLLR F6
TRD13F12QC F3
TRD13F12WL F3
TRD13G10QC F3
TRD13G10WL F3
TRD13G10WLLR2 ..... F3
TRD13G20QC F3
TRD13G20WL F3
TRD21N1(*)WL F6
TRD21N10QC F3
TRD21N10WL F6
TRD21N10WLL2 ..... F3
TRD21N12QCL2 ..... F3
TRD21N12WL F3
TRD21P1(*)WL F6
TRD21P10WL F6
TRD21P10WLL25 ..... F3
TRD21P12WL F3
TRD23N1(*)WL F6
TRD23N10QC F3
TRD23N10WL F6
TRD23N10WLL5 ..... F3
TRD23N12QC F3
TRD23N12QCL5 ..... F3
TRD23N12WL F3
TRD23N20QC F3
TRD23N20WL F3
TRD23N20WLL2 ..... F3
TRD23N20WLL5 ..... F3
TRD23N22WL F3
TRD23P1(*)WL F6
TRD23P10QC F3
TRD23P10WL F6
TRD23P12WL F3
TRD23P20WL F3

F

Rocker/Paddle Switches

Catalog 1308390
Issued 9-04
www.tycoelectronics.com

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Rocker/Paddle Switches, TRD Series Part Number Matrix

MATERIAL SPECIFICATIONS:

Movable Contacts .....Copper alloy w/silver inlay contact or gold plate
Terminals/Fixed Contacts.....Copper alloy w/silver inlay contact or gold plate
Terminal Seal .....Epoxy
Housing/Beveled Frame .....Polyamide, black matte finish

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-49°F to +199°F (-45°C to +93°C)
Solder Heat Resistance .....Meets MIL-STD-202, method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Silver: 3A max. @ 125 VAC, option 3
Gold: 0.4VA max. @ 20 VDC, option 1
Initial Contact Resistance .....20 Milliohms max.
Static Withstanding.....15KV, per IEC 801-2
Insulation Resistance .....1,000 Megohms min. @ 500 VDC
Dielectric Strength .....500 Volts RMS @ sea level
Electrical Life 2 Pos. 20K cycles @ full rated 3A load, 80K @ 0.4VA, 3 pos. 10K cycles @ full rated 3A load, 60K @ 0.4VA

***NOTICE: Caution should be used when hand-soldering. Solder heat Resistance -550°-600°F for less than 5 seconds. Solder with the switch in the closed position.**

UL options available, consult Tyco Electronics Product Information Center

HOW TO ORDER

* Leave blank if LED not required.

Model
- TRD1 — Single Pole
- TRD2 — Double Pole

Contact Rating
- 1 — Gold 0.4VA
- 3 — Silver 3A

Function
Single Pole
- D — on-on
- E — on-off-on
- F — on-(on)
- G — (on)-off-(on)

Double Pole
- N — on-on
- P — on-off-on

Actuator
- 1 — Rocker
- 2 — Paddle

Actuator Color
- 0 — black
- 2 — red

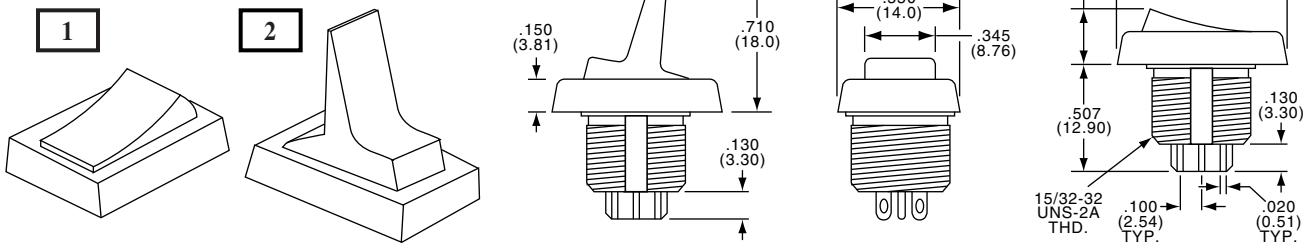
Terminal
- WL — Wire Lug
- QC — Quick Connect
- PC — Printed Circuit
- Blank — 15/32" round hole
- 5 — 1/2" square hole Adapter

Mount

***L.E.D. Illumin.**
- L — LED on Beveled frame adaptor
- LR — LED Integral w/rocker (TRD 1 only)

***L.E.D. Color**
- 2 — red
- 5 — green
- 25 — bi-color red/green

ACTUATORS



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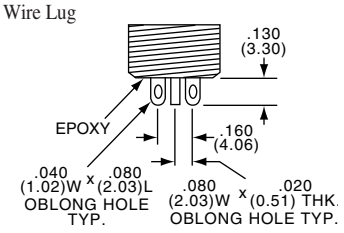
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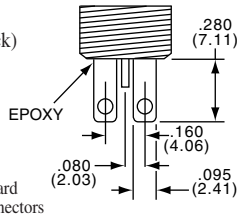
Rocker/Paddle Switches, TRD Series Options

TERMINATIONS
(Epoxy seal standard)

WL
Wire Lug

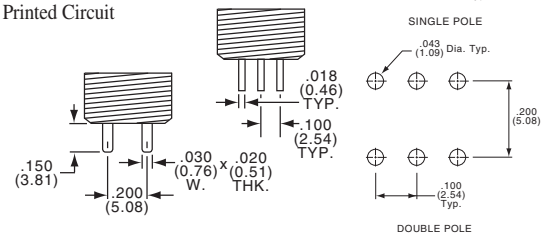


QC
Quick Connect
.110" (.020 thick)

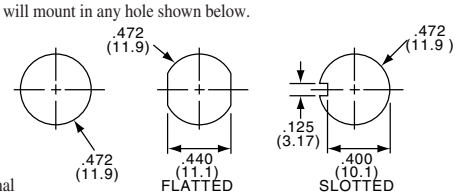


Mates with standard
.110" female connectors

PC
Printed Circuit



15/32" HOLE STANDARD
Standard TRD bushing will mount in any hole shown below.

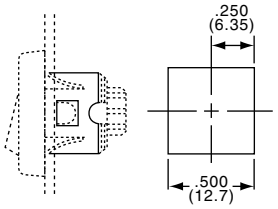


Recommended panel thickness:
.030" to .250"
One hex nut, one internal tooth lock-washer supplied.

5 1/2" SQUARE CUTOUT SNAP-IN ADAPTOR

Recommended panel thickness:
.030" to .125"

Material: bright stainless steel
To specify adaptor separately, use P/N **TRD10793**



CONTACT/RATING/UL RECOGNITION

1 0.4VA Max. @ 20 VDC

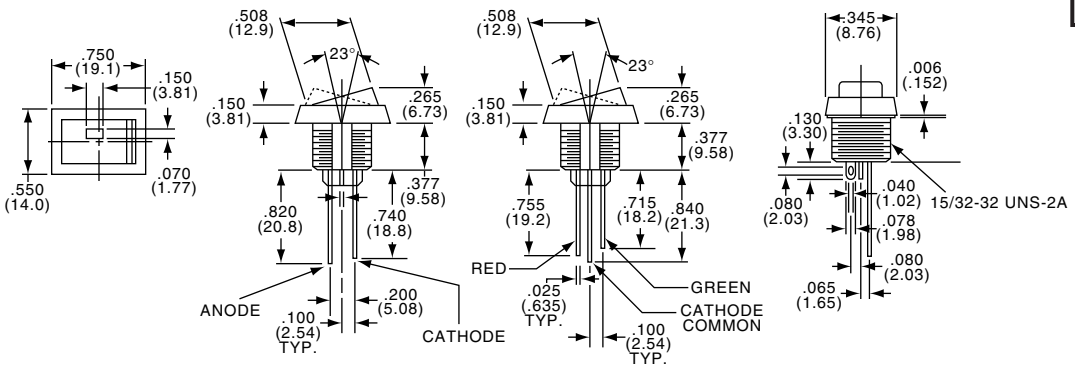
Movable Contact:	Copper alloy, gold plate
Fixed Contact/Terminal:	Copper alloy, gold plate

3 3A Max. @ 125 VAC

Movable Contact:	Copper alloy, silver inlay
Fixed Contact/Terminal:	Copper alloy, silver inlay

L.E.D. ILLUMINATION - SINGLE AND BI-COLOR

LR **L.E.D. Integral (Rocker Actuator) All SPDT functions (TRD1 Model)**



Standard mounting dimensions apply, L.E.D. supplied in **2** red, **5** green, or **25** red/green.
L.E.D. Specifications: Max Voltage: 2.8 VDC
Max. Forward Current: red-20mA, green-25 mA, red/green-40 mA.

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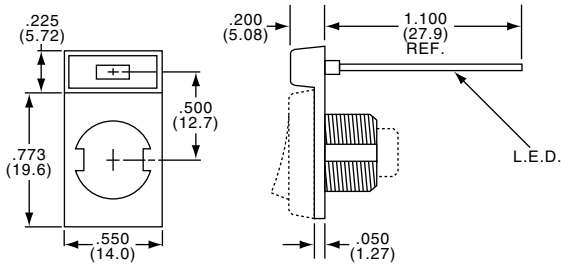
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Rocker/Paddle Switches, TRD Series Options

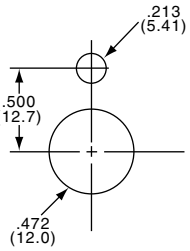
L L.E.D. BEVELED FRAME ADAPTOR
(Accepts rectangular L.E.D.)



Material: Nylon 6/6
Color/Finish: Black, matte

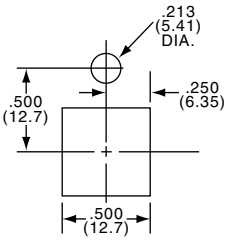
MOUNTING

15/32" HOLE STANDARD



Recommended Panel Thickness: .030 to .220:

1/2" SQUARE CUTOUT



Recommended Panel Thickness: .030 to .095"

FUNCTIONS



Single Pole	Double Pole	123 456	123 456	123 456
D	N	On	None	On
E	P	On	Off	On
F		On	None	(On)
G		(On)	Off	(On)
SPDT Terminals Connected		2-3	---	1-2
DPDT Terminals Connected		2-3 5-6	--- ---	1-2 4-5

None No mechanical position

Off Mechanical position, no electrical connection

(On) Momentary mechanical position, and electrical connection

F
TRD Series

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* Refer to Pages F3-F5 for Other Options *

Rocker Switches, TRD Series Illuminated or Non-Illuminated, Wire Lug

MATERIAL SPECIFICATIONS:

Contacts .....Gold over nickel or silver plate
Case Material .....Polyamide, black matte finish
Actuator Material .....Polyamide
Terminals/Fixed Contacts.....Copper alloy with gold or silver plate
Terminal Seal .....Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-49°F to +199°F (-45°C to +93°C)

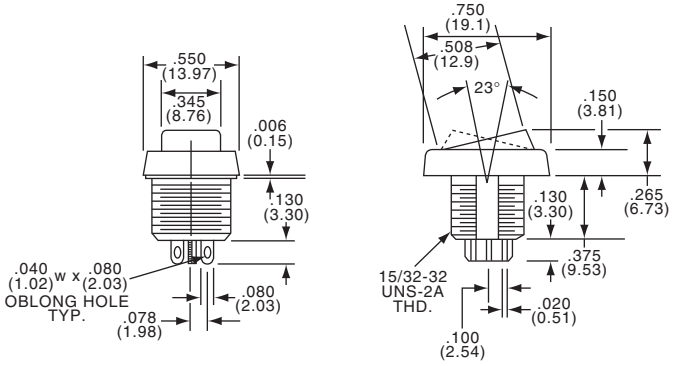
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA Max. @ 20 VDC or peak AC
3 A @ 125 VAC or 28 VDC (2 pos.) 2A
Initial Contact Resistance .....20 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms min.
Dielectric Strength .....500 Volts RMS @ sea level
Actuator Travel.....23°
Life Expectancy .....2 Pos. - Up to 100,000 actuations
3 Pos. - Up to 50,000 actuations

NOTE: Part numbering matrix page F3

NOTE: When hand soldering, solder with switch in closed position. Solder temperature 550-600°F less than 5 seconds.

DPDT





TRD21N10WL

Standard Body Color - (Black)

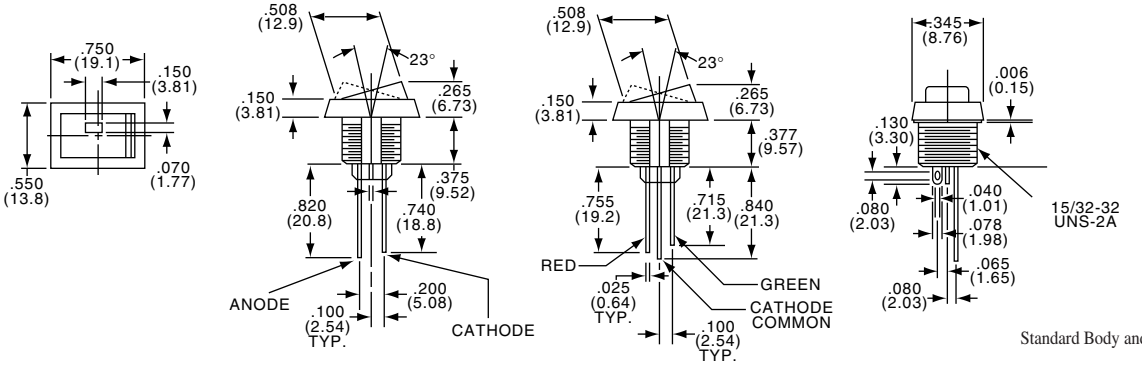
Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD11D1(*)WL	SPDT	On None On	1	Gold	Wire Lug
TRD11E1(*)WL	SPDT	On Off On	5	Gold	Wire Lug
TRD11F1(*)WL	SPDT	On None (On)	1	Gold	Wire Lug
TRD21N1(*)WL	DPDT	On None On	2	Gold	Wire Lug
TRD21P1(*)WL	DPDT	On Off On	6	Gold	Wire Lug

(*) Specify rocker color by adding suffix number: (0) Black (2) Red,

Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD13D1(*)WL	SPDT	On None On	1	Silver	Wire Lug
TRD13E1(*)WL	SPDT	On Off On	5	Silver	Wire Lug
TRD13F1(*)WL	SPDT	On None (On)	1	Silver	Wire Lug
TRD23N1(*)WL	DPDT	On None On	2	Silver	Wire Lug
TRD23P1(*)WL	DPDT	On Off On	6	Silver	Wire Lug

(On) indicates momentary position.

SPDT





TRD11D10WLLR

Standard Body and Rocker Color - (Black)

ILLUMINATED

Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD11D10WLLR(*)	SPDT	On None On	1	Gold	Wire Lug
TRD11E10WLLR(*)	SPDT	On Off On	5	Gold	Wire Lug
TRD11F10WLLR(*)	SPDT	On None (On)	1	Gold	Wire Lug

(*) Specify LED color by adding suffix number: (2) Red, (5) Green, (25) Red/Green - Bi-color

ILLUMINATED

Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD13D10WLLR(*)	SPDT	On None On	1	Silver	Wire Lug
TRD13E10WLLR(*)	SPDT	On Off On	5	Silver	Wire Lug
TRD13F10WLLR(*)	SPDT	On None (On)	1	Silver	Wire Lug

(On) indicates momentary position.

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, A Series, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts/Terminals.....Gold/gold flash
Silver/tin lead
Case Material .....Thermoset 94V-0
Actuator Material .....Polyamide
Terminal Seal .....Epoxy

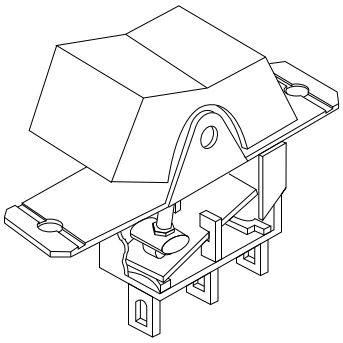
ENVIRONMENTAL SPECIFICATIONS:

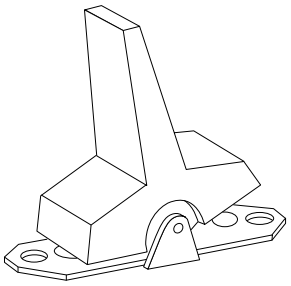
Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-49°F to +212°F (-45°C to +100°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA @ 20 AC/DC
Silver: 2 A @ 250 VAC: 5 A @ 125 VAC
Silver: 2 A @ 30 VDC
Initial Contact Resistance .....30 Milliohms max.
Contact Timing.....Break-before-make
Insulation Resistance .....1,000 Megohms @ 500 VDC
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuator Travel.....25°
Life Expectancy .....Up to 30,000 Cycles

DESIGN







PART NUMBERING

Model
- A1 Single Pole
- A2 Double Pole

Function
- 01 On-On
- 03 On-Off-On
- 05 (On)-Off-(On)

Actuator

Rocker
- J1 Small
- J3 Large
- J15 Snap-in
- J16 Snap-in w/beveled frame
- J50 Snap-in
- J51 Snap-in w/beveled frame
- J52 Snap-in w/beveled frame LED

Paddle
- J2 Small
- J4 Large
- J5 Large
- J60 Snap-in
- J61 Snap-in w/beveled frame
- J62 Snap-in w/beveled frame & LED

Terminal
- Z Wire Lug
- A Right Angle
- AV2 Vert. Right Angle
- C Printed Circuit
- V5 Vertical Right Angle
- V3 V4 Vertical Support Bracket
- W Wire Wrap
- Z3 Quick Connect

Contact
- Q Silver
- B Gold
- G Gold over Silver

Actuator Color
- 0 Black (Std.)
- 2 Red

Beveled Frame Color
- 0 Black (Std.)

Option
- UL (Q or G) contacts only

OPTIONAL:

UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
CSA Certified File #LR65901

F

Gemini Series Rocker/Paddle Switches

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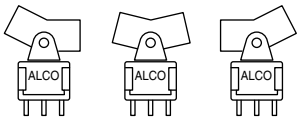
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

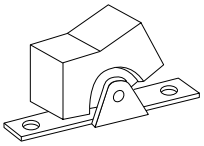


			On	None	On
01	2 Positions	None indicates no mechanical position			
03	3 Positions	Off indicates a mechanical position with no electrical connection.	On	Off	On
05	3 Positions	(On) indicates momentary operation.	(On)	Off	(On)
		SPDT, connect terminals:	1—2	—	2—3
		DPDT, connect terminals:	1—2 4—5	— —	2—3 5—6

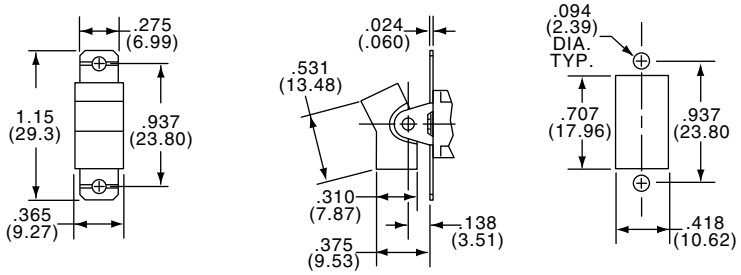
ACTUATORS

J1 Rockers

Small

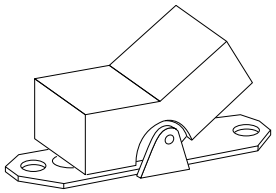


Mounting Type Standard with C or Z Terminal Type

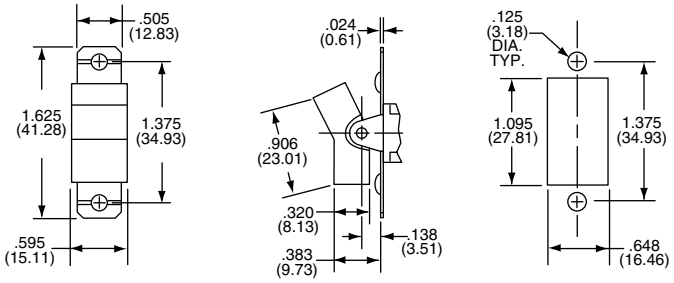


J3

Large



Mounting Type Standard with C or Z Terminal Type



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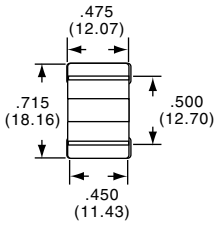
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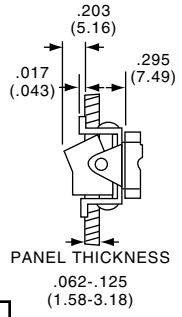
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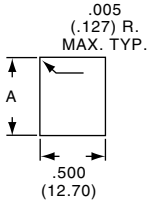
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Rocker/Paddle Switches, A Series, Options

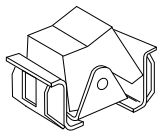
ROCKER



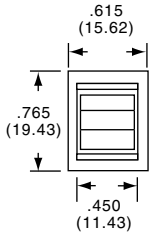


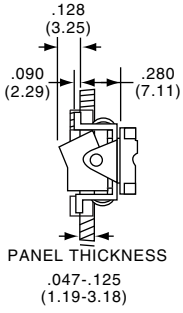


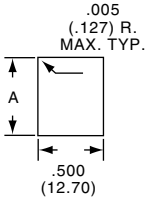
Snap-in



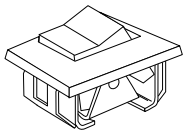
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



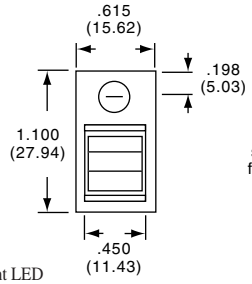




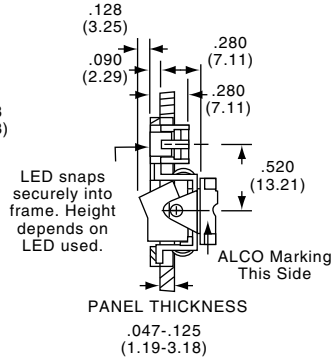
Snap-in with beveled frame

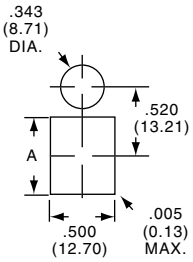


	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

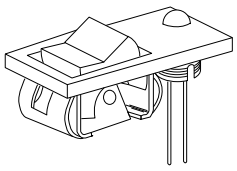


Accepts BL-17 or equivalent LED





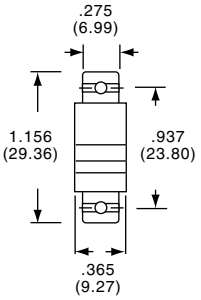
Snap-in with beveled frame/L.E.D.

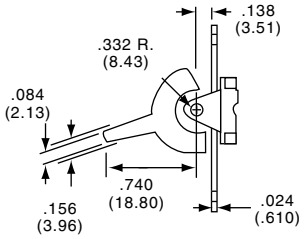


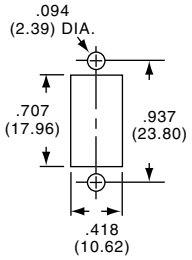
L.E.D. Not supplied.

	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

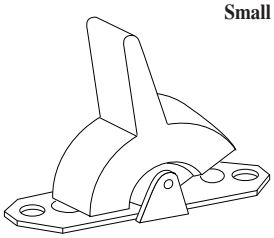
PADDLE







Small



Mounting Type Standard with C or Z Terminal Type.

F

Gemini Series Rocker/Paddle Switches

Catalog 1308390
Issued 9-04

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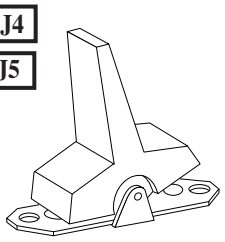
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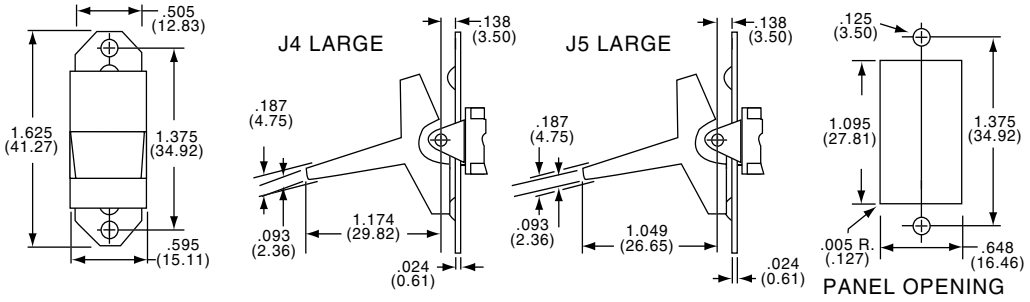
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, A Series, Options

J4
J5

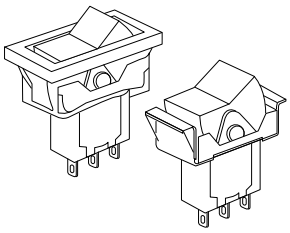


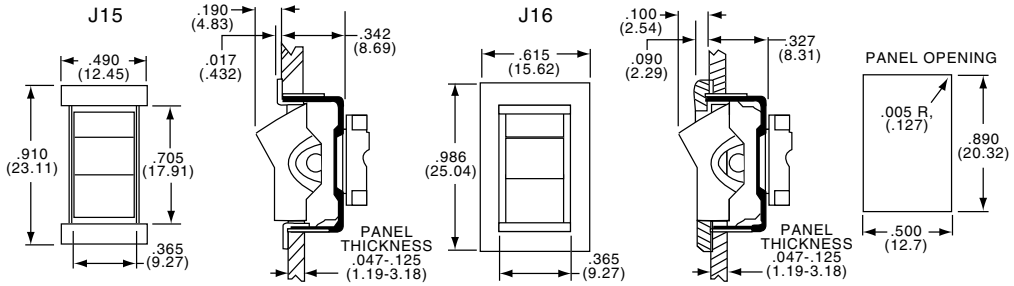
Mounting Type
Standard with C or Z
Terminal Type.



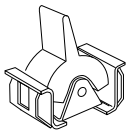
J15 Snap-In

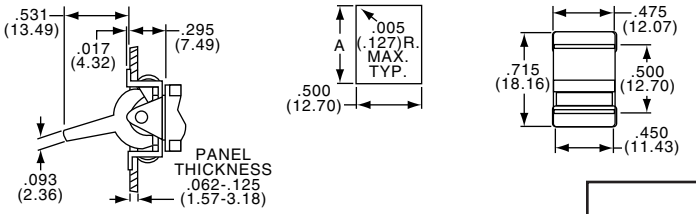
J16 Snap-in with beveled frame





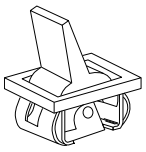
J60 Snap-in

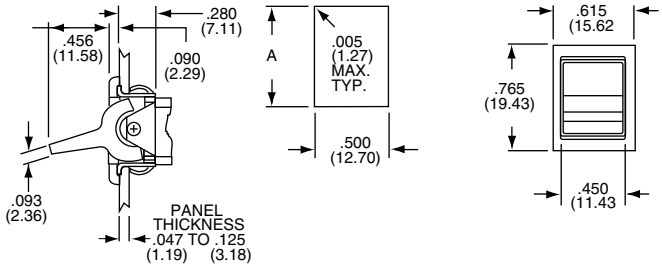




	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

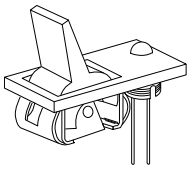
J61 Snap-in with beveled frame

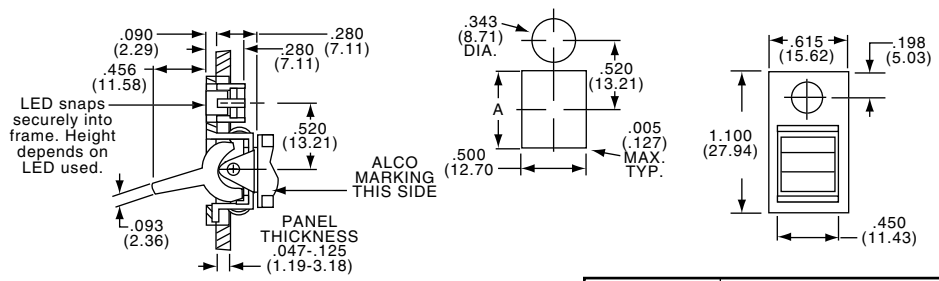




	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

J62 Snap-in with beveled frame/LED





Accepts BL-17 or equivalent LED

L.E.D. not supplied

	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

F

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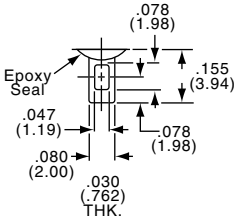
USA: 1-800-522-6752
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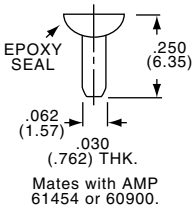
Rocker/Paddle Switches, A Series, Termination Options

TERMINALS

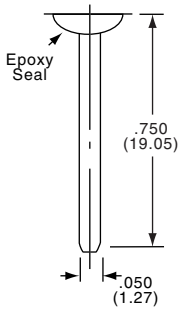
Z
Wire Lug Standard



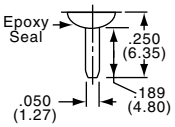
Quick Connect

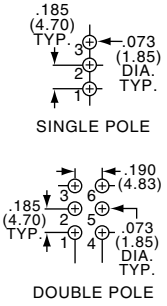


W
Wire Wrap

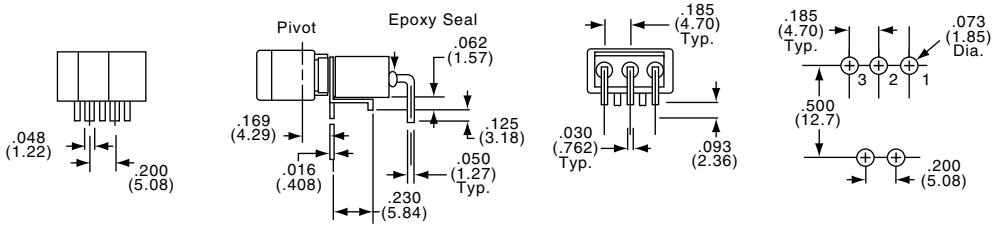


C
Printed Circuit



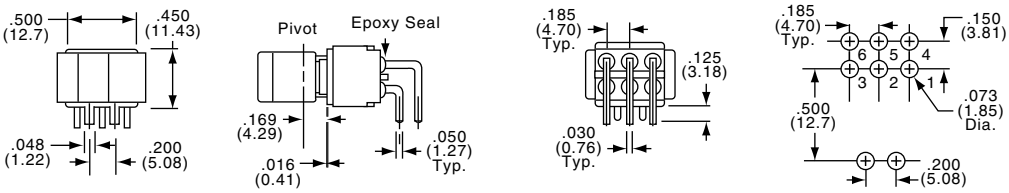


A
Right Angle
Single Pole



NOTE: Terminal numbers viewed from top of P.C. board.

A
Right Angle
Double Pole



NOTE: Terminal numbers viewed from top of P.C. board.

F

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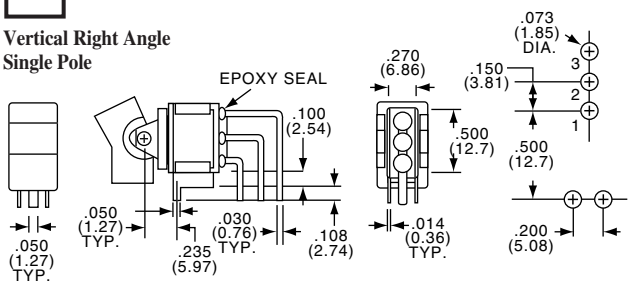
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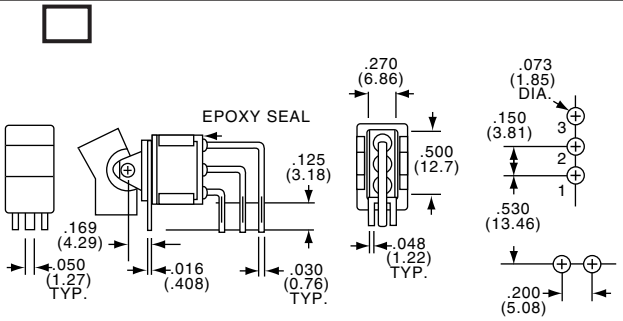
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Rocker/Paddle Switches, A Series, Options

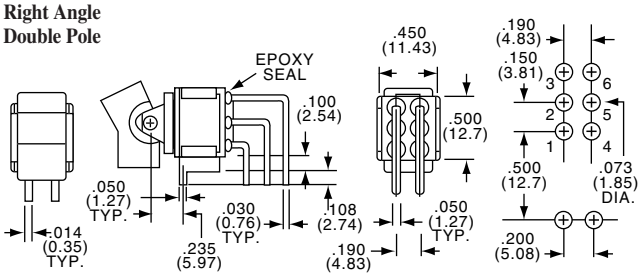
Vertical Right Angle
Single Pole

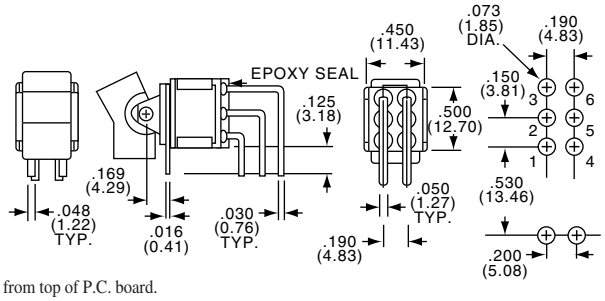




NOTE: Terminal numbers viewed from top of P.C. board.

Right Angle
Double Pole

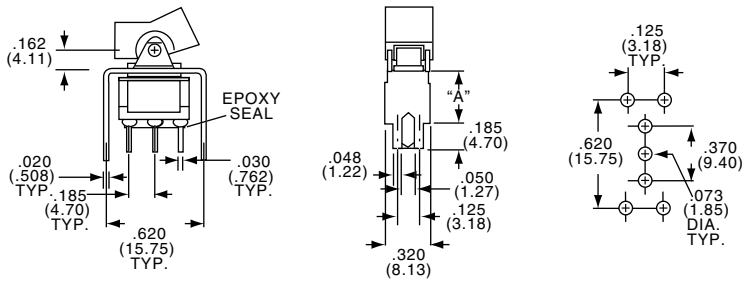




NOTE: Terminal numbers viewed from top of P.C. board.

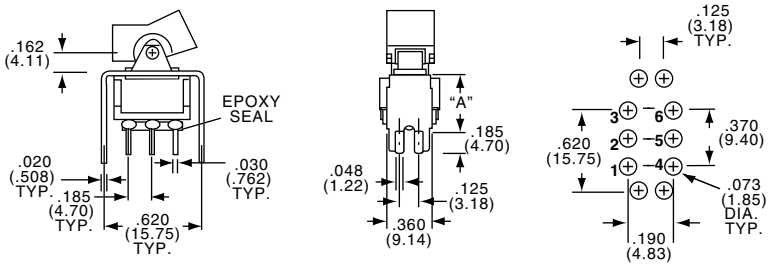
V3 **V4**

Vertical Support Bracket
Single Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

Vertical Support Bracket
Double Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Copper alloy wtih gold plate.

ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Copper alloy wtih tin/lead plate.

ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC. UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Copper alloy wtih gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

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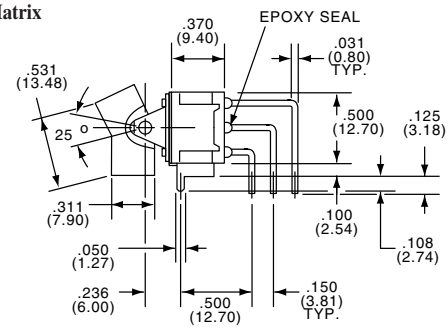
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

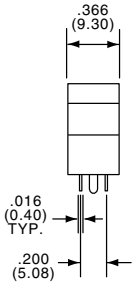
*** Refer to Pages F7 for Product Specifications and Part Matrix**

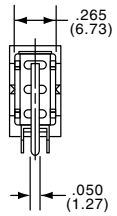
SPDT

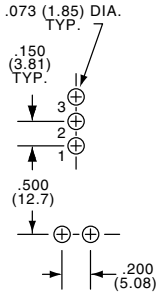


A101J1AV2QO







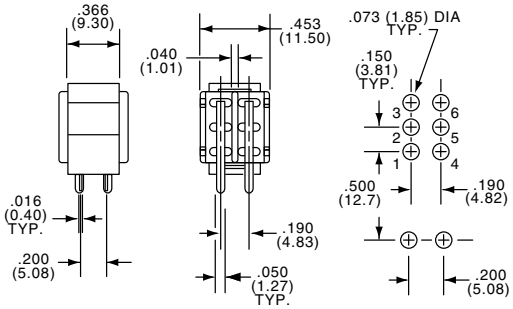


DPDT



A205J1AV2QO

Standard Rocker Color - (Black)

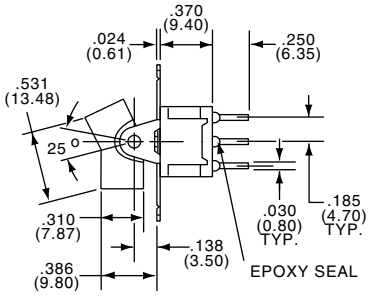


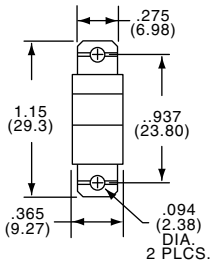
Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-1	A101J1AV2Q0	SPDT	1	On	None	On
4-1437591-7	A105J1AV2Q0	SPDT	5	(On)	Off	(On)
7-1437591-1	A201J1AV2Q0	DPDT	2	On	None	On
9-1437591-6	A205J1AV2Q0	DPDT	6	(On)	Off	(On)

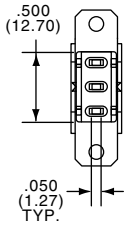
SPDT

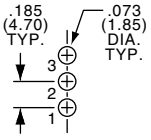


A101J1CQO







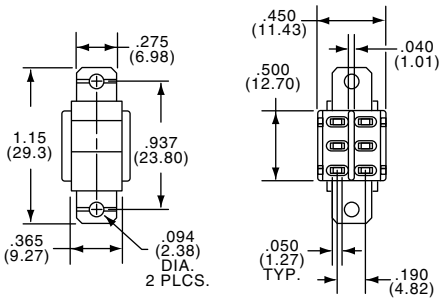


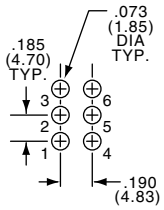
DPDT



A201J1CQO

Standard Rocker Color - (Black)





Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-3	A101J1CQ0	SPDT	1	On	None	On
4-1437591-8	A105J1CQ0	SPDT	5	(On)	Off	(On)
7-1437591-2	A201J1CQ0	DPDT	2	On	None	On
—	A203J1CQ0	DPDT	6	On	Off	On
—	A205J1CQ0	DPDT	6	(On)	Off	(On)

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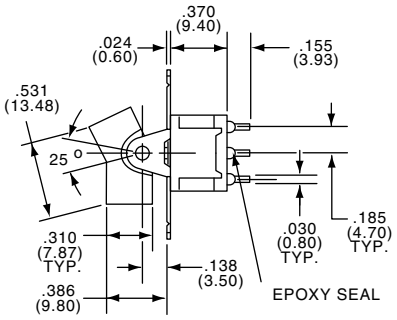
Dimensions are shown for reference purposes only. Specifications subject to change.

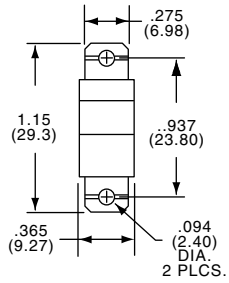
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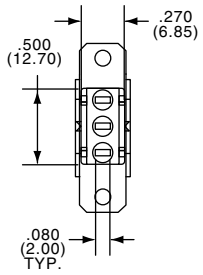
Rocker Switches, A Series, Wire Lug or Right Angle

SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX

SPDT



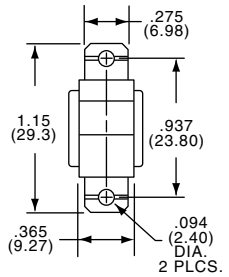


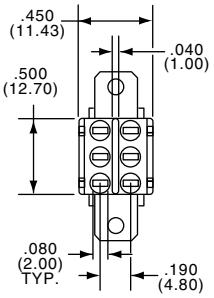




A101J1ZQO

DPDT





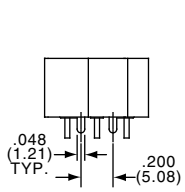


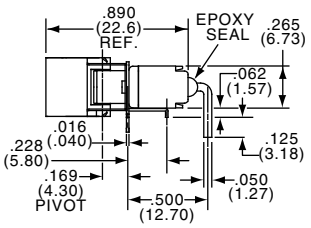
A201J1ZQO

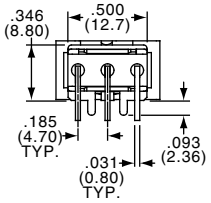
Standard Rocker Color - (Black)

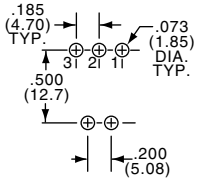
Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5				Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-7	A101J1ZQ0	SPDT	1	On	None	On	7-1437591-4	A201J1ZQ0	DPDT	2	On	None	On
3-1437591-8	A103J1ZQ0	SPDT	5	On	Off	On	9-1437591-1	A203J1ZQ0	DPDT	6	On	Off	On
5-1437591-0	A105J1ZQ0	SPDT	5	(On)	Off	(On)	9-1437591-7	A205J1ZQ0	DPDT	6	(On)	Off	(On)

SPDT





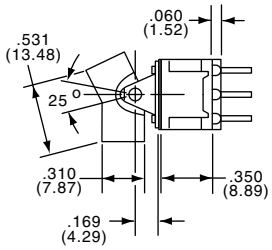


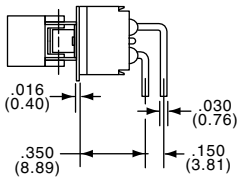


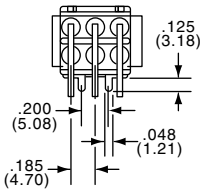


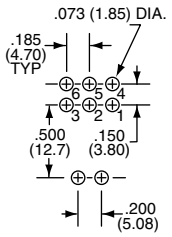
A101J1AQO

DPDT











A201J1AQO

Standard Rocker Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5				Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1437591-8	A101J1AQ0	SPDT	1	On	None	On	6-1437591-9	A201J1AQ0	DPDT	2	On	None	On
4-1437591-6	A105J1AQ0	SPDT	5	(On)	Off	(On)	8-1437591-7	A203J1AQ0	DPDT	6	On	Off	On
							—	A205J1AQ0	DPDT	6	(On)	Off	(On)

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Paddle Switches, A Series, Wire Lug or Right Angle

*** Refer to Pages F7 for Product Specifications and Part Matrix**

SPDT

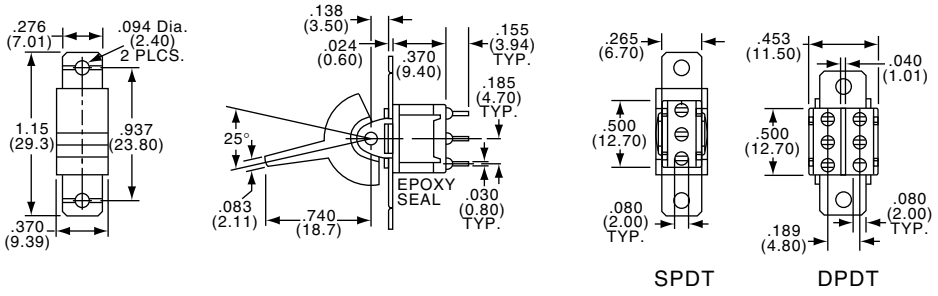


A101J2ZQO

DPDT



A201J2ZQO



Standard Paddle Color - (Black)

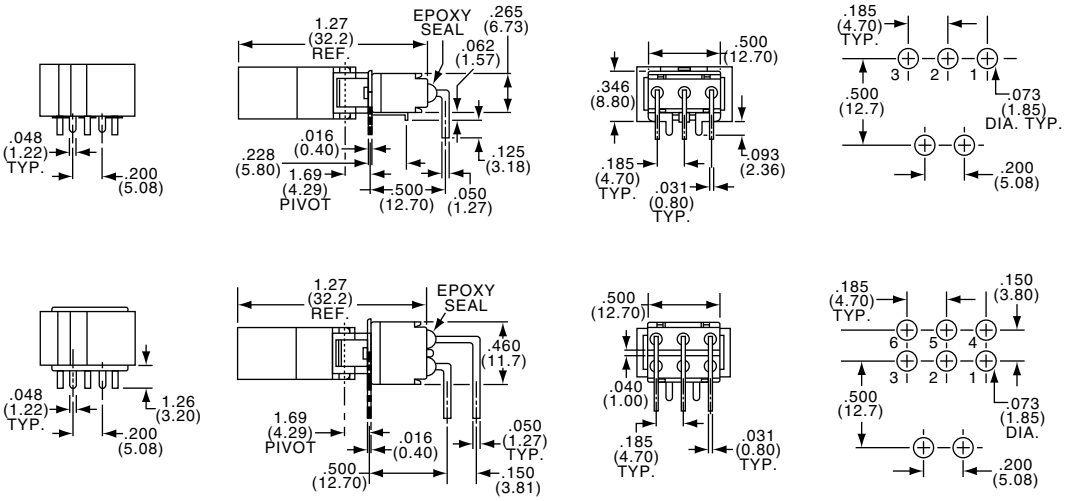
Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↘	⊥	↙
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4-1437591-0	A103J2ZQ0	SPDT	5		On	Off	On
5-1437591-3	A105J2ZQ0	SPDT	5		(On)	Off	(On)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↘	⊥	↙
7-1437591-6	A201J2ZQ0	DPDT	2		On	None	On
—	A203J2ZQ0	DPDT	6		On	Off	On
9-1437591-9	A205J2ZQ0	DPDT	6		(On)	Off	(On)

SPDT / DPDT



A201J2AQ0



Standard Paddle Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↘	⊥	↙
—	A101J2AQ0	SPDT	1		On	None	On
—	A103J2AQ0	SPDT	5		On	Off	On
5-1437591-1	A105J2AQ0	SPDT	5		(On)	Off	(On)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↘	⊥	↙
—	A201J2AQ0	DPDT	2		On	None	On
—	A203J2AQ0	DPDT	6		On	Off	On
—	A205J2AQ0	DPDT	6		(On)	Off	(On)

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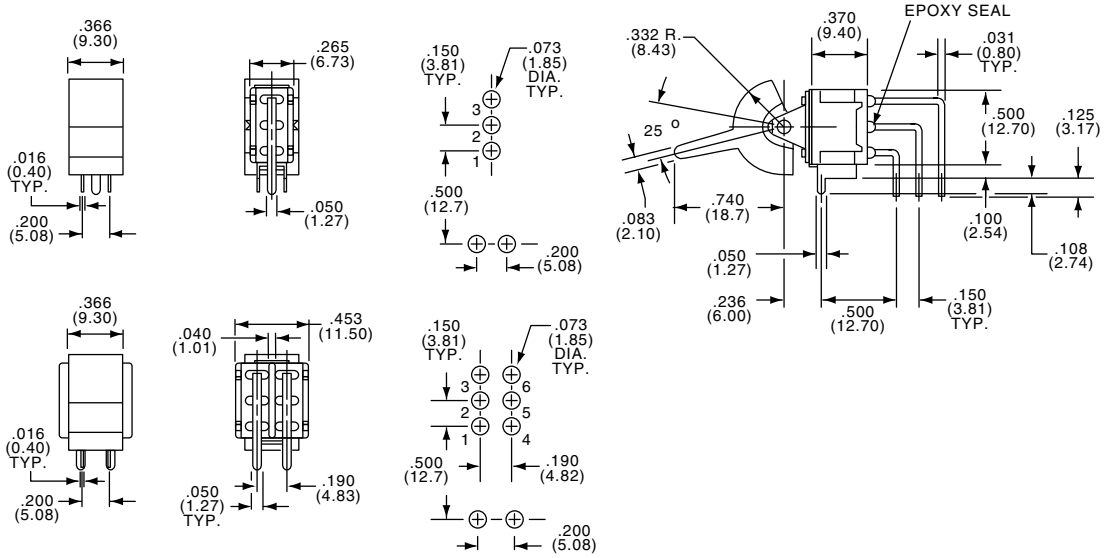
Paddle Switches, A Series, PC Tail, Straight or Vertical Right Angle

SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX

SPDT / DPDT



A105J2AV2QO



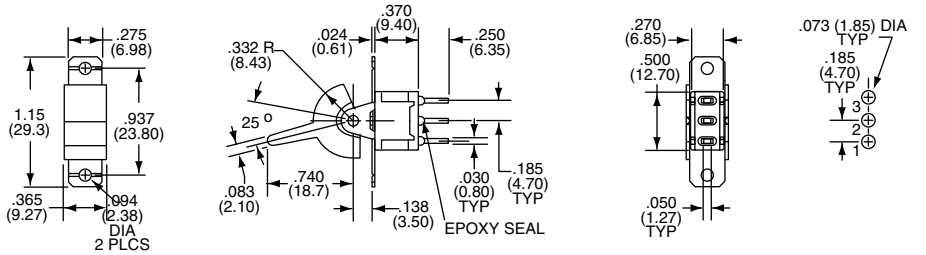
Standard Paddle Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5
1-1437591-8	A101J2AV2Q0	SPDT	1	On None On	—	A201J2AV2Q0	DPDT	2	On None On
5-1437591-2	A105J2AV2Q0	SPDT	5	(On) Off (On)					

SPDT



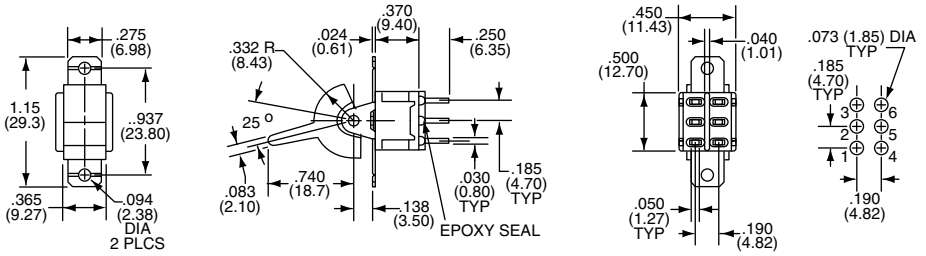
A105J2CQO



DPDT



A205J2CQO



Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5
—	A103J2CQ0	SPDT	5	(On) Off (On)	7-1437591-5	A201J2CQ0	DPDT	2	On None On
—	A105J2CQ0	SPDT	5	(On) Off (On)	9-1437591-8	A205J2CQ0	DPDT	6	(On) Off (On)

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, AE Series, Process Sealed, Part Number Matrix

MATERIAL SPECIFICATIONS:

Terminal Seal .....Epoxy (standard)
Process Sealing.....Seals will withstand wave soldering and subsequent cleaning operations.
Contact/Terminals .....Gold/gold flash over tin/lead
Silver/tin lead
Case Material .....Thermoplastic
Actuator Material .....Polyamide

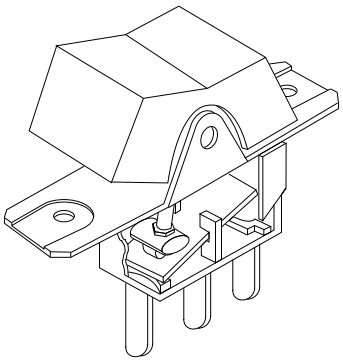
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-49°F to +212°F (-45°C to +100°C)
Meets MIL-STD-202, method 112C, Test Condition A & D 85°C.

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Silver: 2 A @ 250 VAC, 5 A @ 125 VAC
Silver: 2 A @ 30 VDC
Gold: 0.4 VA @ 20 VDC max.
Contact Resistance .....30 Milliohms max. initial
Insulation Resistance .....1,000 Megohms min. @ 500 VDC.
Dielectric Strength .....1,000 Volts RMS @ sea level initial
Static Withstanding.....15KV Per IEC 801-2.
Electrical Life .....Up to 30,000 Cycles
Actuator Travel.....25°
Contact Timing.....Break before make

DESIGN





PART NUMBERING

Model
- AE1 Single Pole
- AE2 Double Pole

Function
- 01 On-On
- 03 On-Off-On
- 05 (On)-Off-(On)

Actuator
- Rocker
  - J1 Standard
  - J50 Small
- Paddle
  - J2 Standard
  - J60 Small

Terminal
- Z Wire Lug
- A Right Angle
- AV2 Vert. Right Angle
- C Printed Circuit
- V5 Vertical Right Angle
- V3 V4 Vertical Support Bracket
- W Wire Wrap
- Z3 Quick Connect

Contact
- B Gold
- Q Silver
- G Gold over Silver

Actuator Color
- 0 Black (Std.)
- 2 Red

Option
- UL (Q or G) contacts only

U.L. Available upon request

OPTIONAL:

UL recognized under the Component Program Underwriters Laboratories Inc.
File #E46765
CSA Certified File #LR65901

F

Gemini Series Rocker/Paddle Switches

Catalog 1308390
Issued 9-04
www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

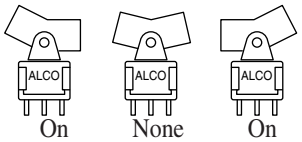
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, AE Series, Process Sealed, Options

FUNCTIONS

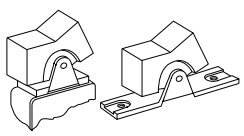
The following functions available in SP or DP.

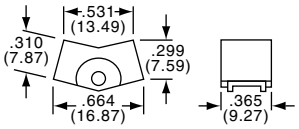


			On	None	On
01	2 Positions	None indicates no mechanical position			
03	3 Positions	Off indicates a mechanical position with no electrical connection.	On	Off	On
05	3 Positions	(On) indicates momentary operation	(On)	Off	(On)
		SPDT, connect terminals:	1—2	—	2—3
		DPDT, connect terminals:	1—2 4—5	— —	2—3 5—6

ACTUATORS

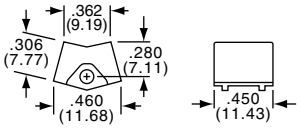
J1
Rocker

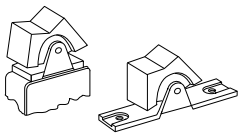




Mounting Provided with C or Z Terminal Type.

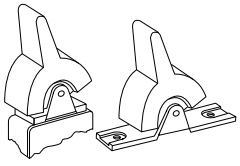
J50
Rocker

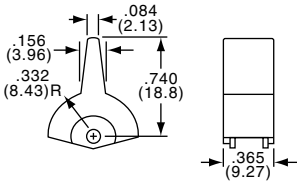




Mounting Provided with C or Z Terminal Type.

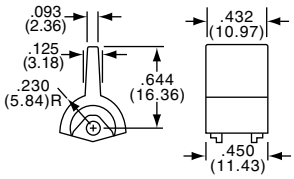
J2
Paddle

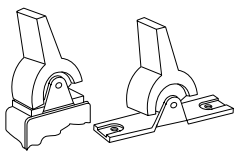




Mounting Provided with C or Z Terminal Type.

J60
Paddle





Mounting Provided with C or Z Terminal Type.

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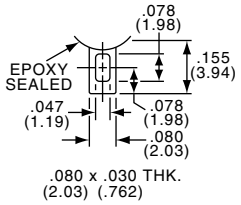
USA: 1-800-522-6752
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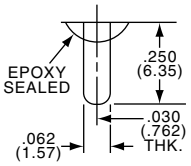
Rocker/Paddle Switches, AE Series, Process Sealed, Termination Options

TERMINALS

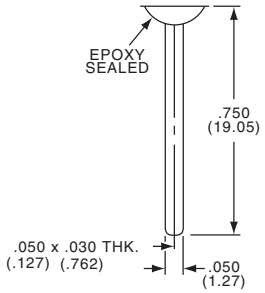
Z **Wire Lug**



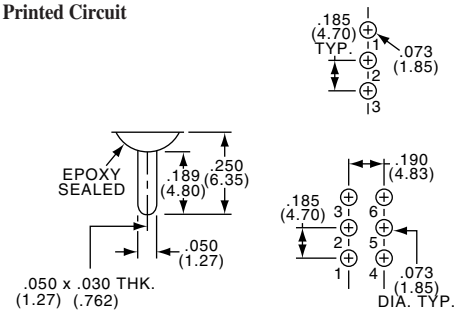
Quick Connect



W **Wire Wrap**

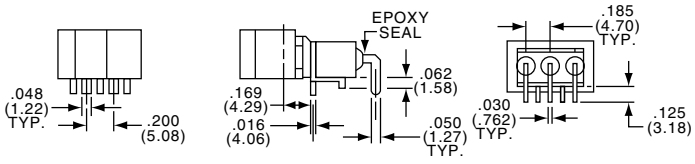


C **Printed Circuit**

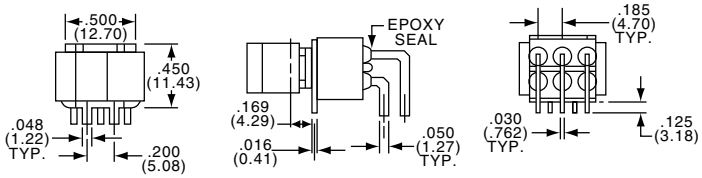


A

Right Angle Single Pole

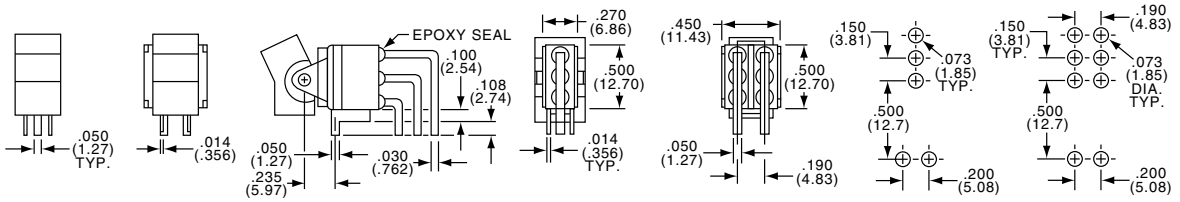


Right Angle Double Pole



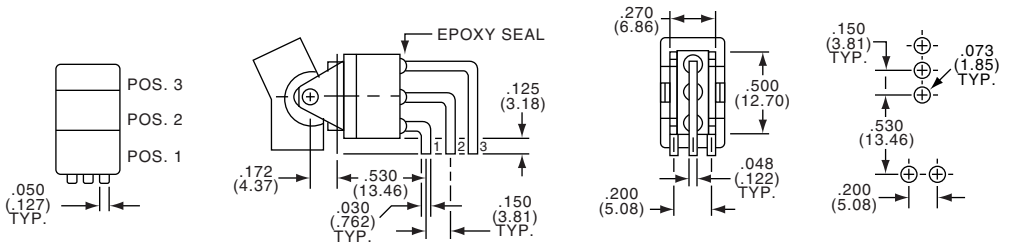
NOTE: Terminal numbers viewed from top of P.C. board.

Vertical Right Angle

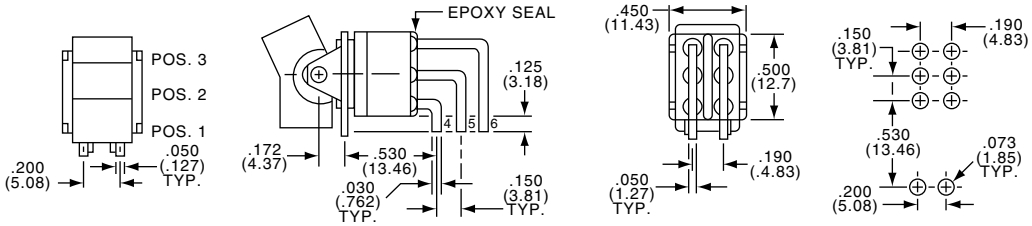


NOTE: Terminal numbers viewed from top of P.C. board.

Vertical Right Angle Single Pole



Vertical Right Angle Double Pole



F

Gemini Series Rocker/Paddle Switches

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

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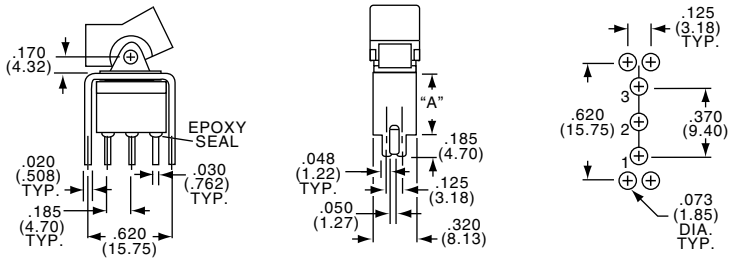
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rocker/Paddle Switches, AE Series, Process Sealed, Options

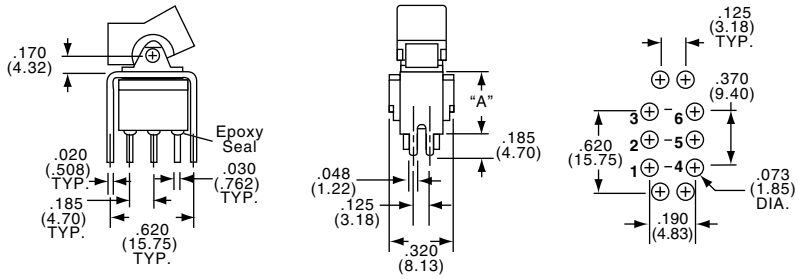
V4

Vertical Support Bracket
Single Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

Vertical Support Bracket
Double Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

F

Gemini Series Rocker/Paddle Switches

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Copper alloy wtih tin/lead plate.

ELECTRICAL RATING: 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.
UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Copper alloy wtih gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

Catalog 1308390
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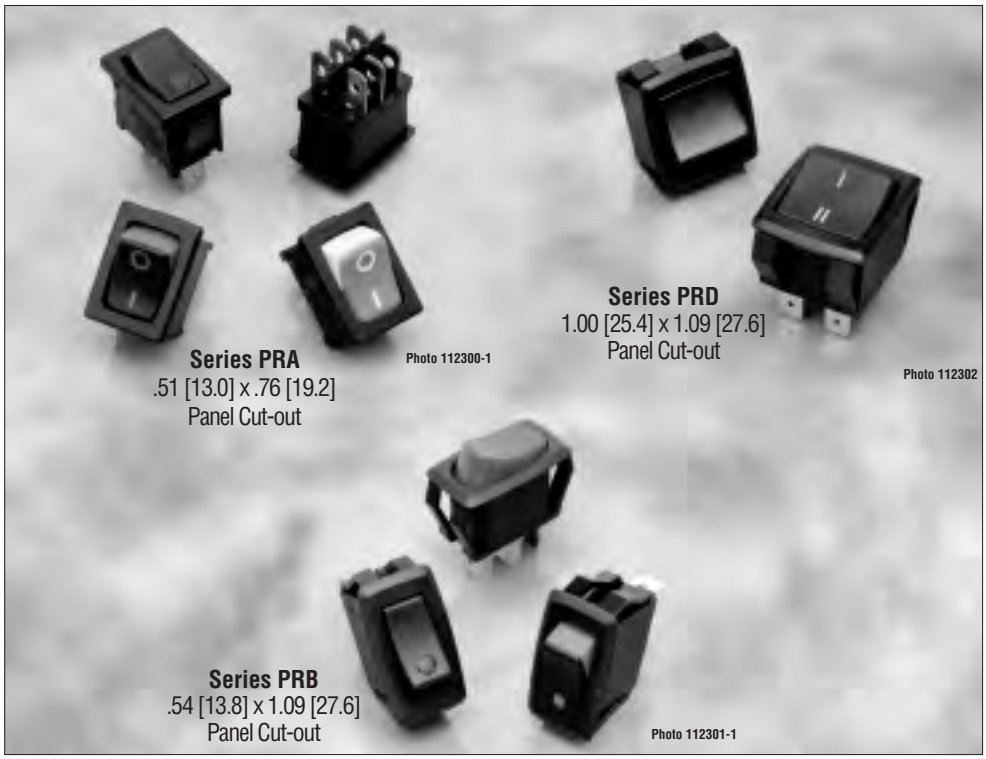
USA: 1-800-522-6752
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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Series PRA, PRB and PRD

Product Facts

- **Full line of single or double-pole power rocker switches for three different industry compatible panel cut-out sizes**
- **Easy to install snap-in mounting**
- **Dust resistant**
- **Dual color rocker option**
- **Full-illuminated rocker option**
- **LED or neon window illuminated option**
- **Wide range of marking options and functions available**
- **Solder lugs or .187 & .250 FASTON Tab terminals**
- **Cost competitive**



Electrical Characteristics

Current: 16A@125 VAC 1/3 HP
10A@250 VAC 1/2 HP
PRA Series Double Pole:
7A@125 VAC
6A@250 VAC

PRA Series Single Pole:
6 (3)A 250V ~ 10A 125V ~
µ 25T85

Inrush Current: 50A/3msec (capacitive load)

Contact Resistance (initial): <50m Ohms

Dielectric Strength (initial): >1000 VAC, 1 min.

Insulation Resistance (initial): >100Mohms min.

Electrical Life Endurance:
>6000 operations
Voltage drop <100 mV

Mechanical Characteristics

Operating Life Endurance: up to >100,000 operations

Actuating Force:
Series PRA 150g min., 650g max.
Series PRB 300g min., 700g max.
Series PRD 850g min., 1250g max.

Materials and Finish

Housing: Nylon 6/6 UL 94V-2

Rocker: Nylon 6/6 UL 94V-2 or Polycarbonate UL 94V-2

Contact: Silver-tin Oxide

Terminals, Active Contactor: Silver plated copper alloy

Plunger: Nickel plated copper alloy

Spring: Steel Wire

Standards & Specs

UL Approved - File No. E46765

ENEC/VDE approval - File No. 40006757 (PRA Single Pole Series only)

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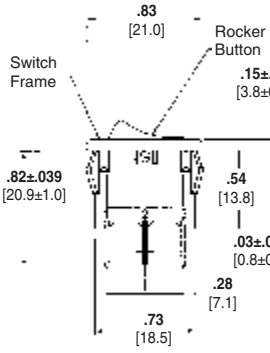
.51 [13.0] x .76 [19.2] Panel Cutout



Product Facts

- Easy to install snap-in mounting
- Dust resistant
- Dual color rocker option
- Full-illuminated rocker option
- LED or neon window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .187 FASTON Tab terminals
- Cost competitive

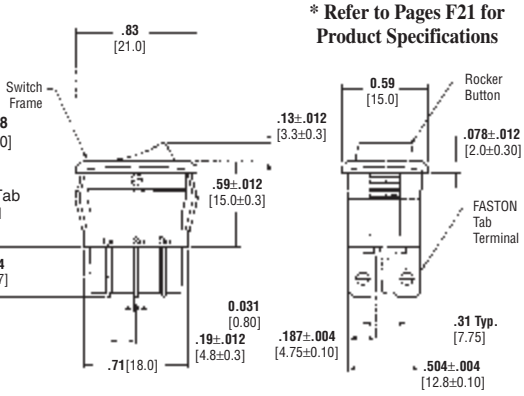
Single-Pole, Lamp Illuminated or Non-Illuminated



Non-Illuminated Version Shown

Double-Pole, Non-Illuminated

* Refer to Pages F21 for Product Specifications



Alcoswitch Part Number

PR A X XX – XX X – X X X X X X

Switch Type
PR Power Rockers

Panel Cut-out Size
A .51 [13.0] x .76 [19.2]

Number of Poles
S Single Pole
D Double Pole

Switch Functions
A1 ON-OFF; opaque, single-color rocker button
A2 ON-OFF; opaque, dual-color rocker button
A3 (ON)-OFF; opaque, single-color rocker button
B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
B2 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (100-125 V lamp voltage)
B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
B4 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (200-250 V lamp voltage)
C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button
D1 ON-ON; opaque, single-color rocker button
D2 ON-(ON); opaque, single-color rocker button
D3 ON-OFF-ON; opaque, single-color rocker button
D4 ON-OFF-(ON); opaque, single-color rocker button

Power Rating
07 7A @ 125 VAC; 6A @ 250 VAC (Double-pole only)
16 16A, 1/3 Hp @ 125 VAC (Single-pole only)
10A, 1/2 Hp @ 250 VAC
10A 125V~ 6 (3)A 250V~
μ 25T85

Terminal Type
F FASTON Tab
L Solder Lug

Frame Color
B Black
W White

Rocker Color
A Amber
B Black
C Clear
G Green
R Red
W White

Secondary Rocker Color, Window Color, or LED Color
0 Not Applicable
A Amber
B Black
C Clear
G Green
R Red
W White

Legend Text Pattern
0 Not Applicable
A Dot
B o --
C o I
D -- =
E I II
F -- o =
G I o II
H ON OFF
J o-

Legend Text Color
0 Not Applicable
B Black
G Green
R Red
W White

Part No.

Tyco Electronics	Alcoswitch
1571076-9	PRASA1-16F-BB000
1-1571076-0	PRASA1-16F-BB0BW
1-1571076-1	PRASA1-16F-BB0CW
1-1571076-2	PRASA1-16L-BB000
1-1571076-3	PRASA1-16L-BB0BW
1-1571076-4	PRASA1-16L-BB0CW
1-1571076-5	PRASA1-16F-BR000
1-1571076-6	PRASA1-16L-BR000
1-1571076-7	PRASA2-16F-BBRBR
2-1571076-0	PRASA1-16F-BB0HW
2-1571076-1	PRASA3-16F-BB0JW
1571078-2	PRASB1-16F-BR000
1571078-4	PRASB2-16F-BBR00
1571079-4	PRASD1-16F-BB000
1571079-5	PRASD1-16F-BB0DW
1571079-6	PRASD1-16F-BB0EW

Tyco Electronics	Alcoswitch
1571079-7	PRASD3-16F-BB000
1571079-8	PRASD3-16F-BB0FW
1571079-9	PRASD3-16F-BB0GW
1-1571079-0	PRASD2-16F-BB000
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1-1571079-2	PRASD2-16F-BB0EW
1-1571079-3	PRASD4-16F-BB000
1-1571079-4	PRASD4-16F-BB0FW
1-1571079-5	PRASD4-16F-BB0GW
1571083-2	PRASC1-16F-BBR00
1571084-1	PRADA1-07F-BB000
1571084-2	PRADA1-07F-BB0BW
1571084-3	PRADA1-07F-BB0CW
1571084-4	PRADA1-07F-BR000

Tyco Electronics	Alcoswitch
1571084-5	PRADA1-07F-BR0BW
1571086-1	PRADD1-07F-BB000
1571086-2	PRADD1-07F-BB0DW
1571086-3	PRADD1-07F-BB0EW
1571086-4	PRADD3-07F-BB000
1571086-5	PRADD3-07F-BB0FW
1571086-6	PRADD3-07F-BB0GW
1571086-7	PRADD2-07F-BB000
1571086-8	PRADD2-07F-BB0DW
1571086-9	PRADD2-07F-BB0EW
1-1571086-0	PRADD4-07F-BB000
1-1571086-1	PRADD4-07F-BB0FW
1-1571086-2	PRADD4-07F-BB0GW

PVC Waterproof Cover: 1571786-1

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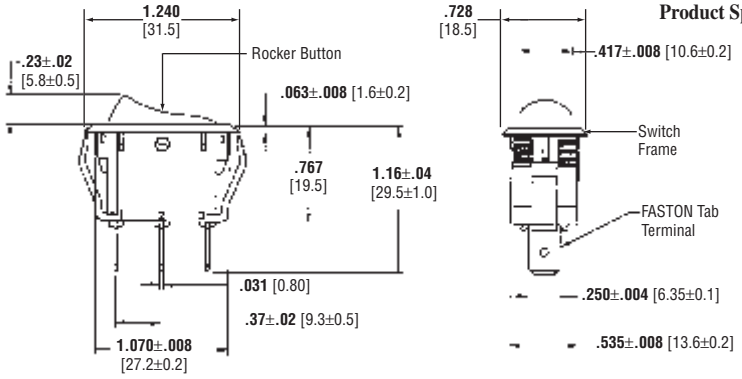
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UK: 44-141-810-8967

.54 [13.8] x 1.09 [27.6] Panel Cutout

* Refer to Pages F21 for Product Specifications





Product Facts

- Easy to install snap-in mounting
- Dual color rocker option
- Full-illuminated rocker option
- Lamp window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .250 FASTON Tab terminals
- Cost competitive

Alcoswitch Part Number

PR B S XX – XX X – X X X X X X

Switch Type
PR Power Rockers

Panel Cut-out Size
B .54 [13.8] x 1.09 [27.6]

Number of Poles
S Single Pole

Switch Functions
A1 ON-OFF; opaque, single-color rocker button
A2 ON-OFF; opaque, dual-color rocker button
B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button
D1 ON-ON; opaque, single-color rocker button
D3 ON-OFF-ON; opaque, single-color rocker button

Power Rating
16 16A, 1/3 Hp @ 125 VAC
10A, 1/2 Hp @ 250 VAC

Terminal Type
F FASTON Tab
L Solder Lug

Frame Color
B Black
W White

Rocker Color
A Amber
B Black
C Clear
G Green
R Red
W White

Secondary Rocker Color, Window Color, or LED Color
0 Not Applicable
A Amber
B Black
C Clear
G Green
R Red
W White

Legend Text Pattern
0 Not Applicable
A Dot
B o --
C o |
D -- =
E | ||
F -- o =
G | o ||
H ON OFF

Legend Text Color
0 Not Applicable
B Black
G Green
R Red
W White

Part No.

Tyco Electronics	Alcoswitch
1571087-1	PRBSC1-16F-BBR00
1571087-2	PRBSC1-16L-BBR00
1571091-1	PRBSA1-16F-BB000
1571091-2	PRBSA1-16F-BB0BW
1571091-3	PRBSA1-16F-BB0CW
1571091-4	PRBSA1-16L-BB000
1571091-5	PRBSA1-16L-BB0BW
1571091-6	PRBSA1-16L-BB0CW
1571091-7	PRBSA1-16F-BR000
1571091-8	PRBSA1-16L-BR000
1571091-9	PRBSA1-16F-BB0HW
1-1571091-0	PRBSA1-16F-BR0HW
1-1571091-1	PRBSA1-16F-BW000
1-1571091-2	PRBSA1-16F-BW0HB

Tyco Electronics	Alcoswitch
1571092-1	PRBSB1-16F-BR000
1571092-2	PRBSB1-16F-BR0BW
1571092-3	PRBSB1-16F-BA000
1571092-4	PRBSB1-16F-BC000
1571094-1	PRBSD1-16F-BB000
1571094-2	PRBSD1-16F-BB0DW
1571094-3	PRBSD1-16F-BB0EW
1571094-4	PRBSD3-16F-BB000
1571094-5	PRBSD3-16F-BB0FW
1571094-6	PRBSD3-16F-BB0GW
1571094-7	PRBSD3-16F-BW000

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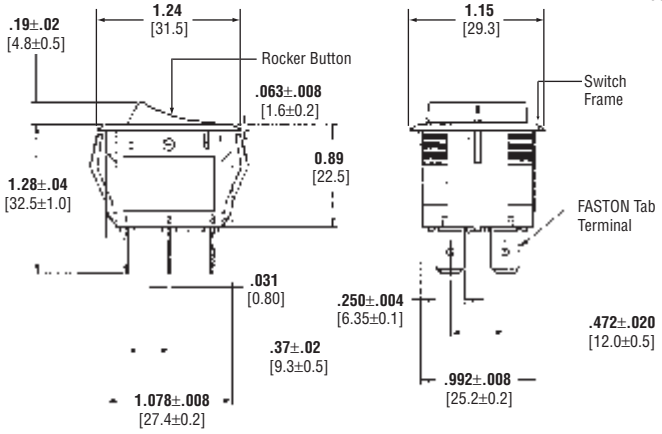
Dimensions are shown for reference purposes only. Specifications subject to change.

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

1.00 [25.4] x 1.09 [27.6] Panel Cutout



* Refer to Pages F21 for Product Specifications



Product Facts

- Easy to install snap-in mounting
- Full illuminated rocker option
- Wide range of marking options and functions available
- FASTON .250 Tab terminals
- Cost competitive

Alcoswitch Part Number

PR D D XX – XX X – X X X X X X

Switch Type
PR Power Rockers

Panel Cut-out Size
B 1.00 [25.4] x 1.09 [27.6]

Number of Poles
S Double Pole

Switch Functions
A1 ON-OFF; opaque, single-color rocker button
B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
D1 ON-ON; opaque, single-color rocker button
D3 ON-OFF-ON; opaque, single-color rocker button

Power Rating
16 16A, 1/3 Hp @ 125 VAC
10A, 1/2 Hp @ 250 VAC

Terminal Type
F FASTON Tab

Frame Color
B Black
W White

Rocker Color
A Amber
B Black
C Clear
G Green
R Red
W White

Secondary Rocker Color, Window Color, or LED Color
0 Not Applicable

Legend Text Pattern
0 Not Applicable
A Dot
B o --
C o I
D - =
E I II
F - o =
G I o II
H ON OFF

Legend Text Color
0 Not Applicable
B Black
G Green
R Red
W White

Part No.

Tyco Electronics	Alcoswitch
1571103-1	PRDDA1-16F-BB000
1571103-2	PRDDA1-16F-BB0BW
1571103-3	PRDDA1-16F-BB0CW
1571103-4	PRDDA1-16F-BR000
1571103-5	PRDDA1-16F-BB0HW
1571103-6	PRDDA1-16F-BR0HW
1571113-7	PRDDD3-16F-BR000

Tyco Electronics	Alcoswitch
1571112-1	PRDDB1-16F-BR000
1571112-2	PRDDB1-16F-BA000
1571113-1	PRDDD1-16F-BB000
1571113-2	PRDDD1-16F-BB0DW
1571113-3	PRDDD1-16F-BB0EW
1571113-4	PRDDD3-16F-BB000
1571113-5	PRDDD3-16F-BB0FW
1571113-6	PRDDD3-16F-BB0GW

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MRC Series - Page G3



MRJ Series - Page G4



MRJE Series - Page G4



MRJB Series - Page G4



6000 Series - Page G5



3100 Series - page G9

Rotary

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Rotary Switches Part Number Index

MRC110 .....G3
MRC110S G3
MRC25 .....G3
MRC25S G3
MRC33 .....G3
MRC33S G3
MRC42 .....G3
MRC42S G3
MRJ112.....G4
MRJ26 .....G4
MRJ34 .....G4
MRJ43 .....G4
MRJB112 .....G4
MRJB26 .....G4
MRJB34 .....G4
MRJB43 .....G4
MRJE112 .....G4
MRJE26 .....G4
MRJE34 .....G4
MRJE43 .....G4
435005 .....G6
435123 .....G6
435128 .....G6
435167 .....G7
435174 .....G6
435697 .....G7
435984 .....G10
435986 .....G10
435987 .....G10
436022 .....G10
436024 .....G10
436028 .....G10
436037 .....G10
436287 .....G11

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary Switches, 500m Amp, Adjustable Stop, 36° Throw

MATERIAL SPECIFICATIONS:

Contacts .....Silver
Case Material .....Aluminum
Actuator Material .....Brass
Terminals/Fixed Contacts.....Silver plated brass
Terminal Seal .....Insert molded, DAP bas

ENVIRONMENTAL SPECIFICATIONS:

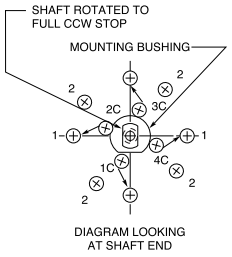
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature .....-4°F to +212°F (-20°C to +100°C)
Solder Heat Resistance.....Manual: 270°C for 3 seconds
Wave: 245°C for 3 seconds

NOTICE: Set stop positions by presetting external pin plate provided.

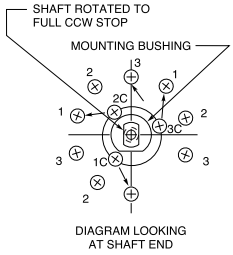
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....500 Milliamps @ 125 VAC or 28 VDC resistive
Initial Contact Resistance.....50 Milliohms max.
Contact Timing.....Non-shorting
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Rotation Torque .....14 Inch ounce max.
High Torque Bushing Shoulder ....Nickle plated brass
Plunger/Actuator Travel.....36°
Life Expectancy .....Up to 10,000 Cycles @ full contact rating
Up to 25,000 Cycles @ 150 mA @ 125 VAC or 250 mA @ 28 VDC

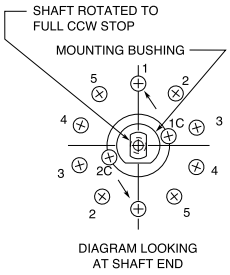
4 Pole, 2 Positions



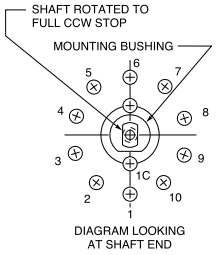
3 Pole, 2-3 Positions, Adjustable



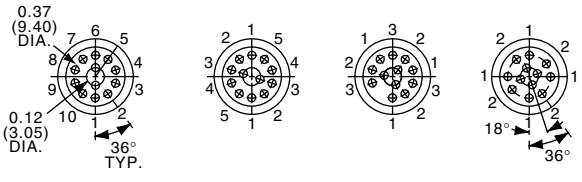
2 Pole, 2-5 Positions, Adjustable



1 Pole, 2-10 Positions, Adjustable

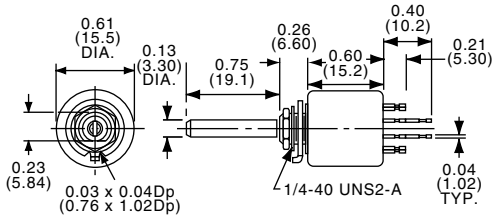


36° ANGLE OF THROW



MRC110S* MRC25S MRC33S MRC42S

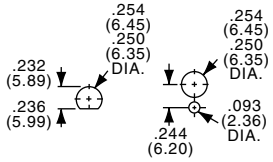
* Two common terminals are internally shorted. Use either one.





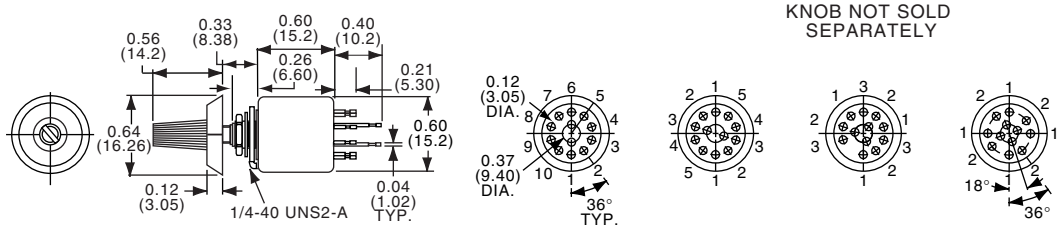
MRC33S

Part Number			
Tyco Electronics	Alcoswitch	No. Poles	Adjustable Positions
1437629-2	MRC110S	1 Pole	2 to 10 Positions
1437629-4	MRC25S	2 Poles	2 to 5 Positions
1437629-6	MRC33S	3 Poles	2 to 3 Positions
1437629-8	MRC42S	4 Poles	2 Positions (fixed)



36° ANGLE OF THROW

KNOB NOT SOLD SEPARATELY



MRC110* MRC25 MRC33 MRC42

* Two common terminals are internally shorted. Use either one.



MRC25

Part Number			
Tyco Electronics	Alcoswitch	No. Poles	Adjustable Positions
1437629-1	MRC110	1 Pole	2 to 10 Positions
1437629-3	MRC25	2 Poles	2 to 5 Positions
1437629-5	MRC33	3 Poles	2 to 3 Positions
1437629-7	MRC42	4 Poles	2 Positions (fixed)

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary Switches, .4VA, PC Mount, 30° Throw

MATERIAL SPECIFICATIONS:

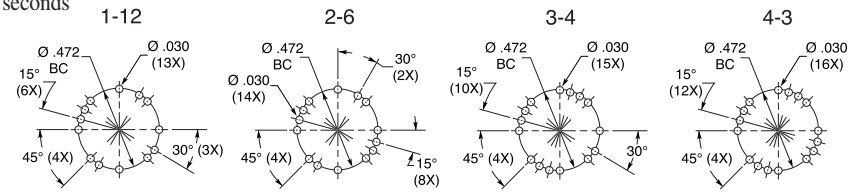
Contacts.....Gold plate over nickel plate
Case Material .....Zinc die cast
Actuator Material .....Brass
Terminals/Fixed Contacts.....Gold plated
Terminal Seal .....Molded-in epoxy base
Process Seal .....MRJB and MRJE

ENVIRONMENTAL SPECIFICATIONS:

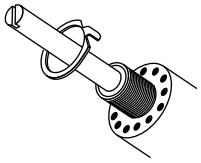
Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....-4°F to +158°F (-20°C to +70°C)
Solder Heat Resistance .....285°C ±3C for 15 seconds

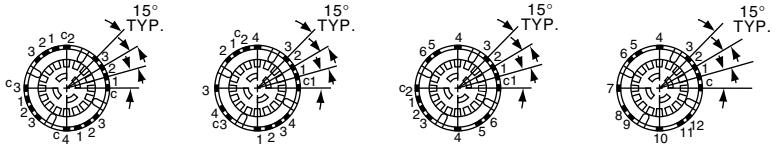
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4VA max. @ 20 VDC or peak AC
Initial Contact Resistance .....30 Milliohms max.
Contact Timing .....Non-shorting
Insulation Resistance .....10,000 Megohms min.
Dielectric Strength .....1,000 Volts RMS @ sea level
Actuation Force.....14 Inch oz. max.
Plunger/Actuator Travel .....30°
Life Expectancy .....Up to 10,000 Cycles @ full contact ratng
Up to 30,000 Cycles @ 0.1 mA, 12 VDC



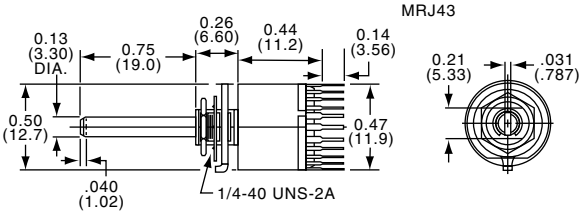
30° ANGLE OF THROW







MRJ26

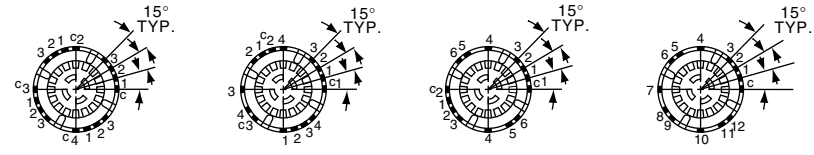


Part Number				
Tyco Electronics	Alcoswitch	No. Poles	Positions	Description
1437629-9	*MRJ112	1 Pole	2 to 12, Adjustable	
1-1437629-0	MRJ26	2 Poles	2 to 6, Adjustable	3/4" long, 1/8"
1-1437629-1	MRJ34	3 Poles	2 to 4, Adjustable	Diameter shaft.
1-1437629-2	MRJ43	4 Poles	2 to 3, Adjustable	

* Also usable as continuous rotation.

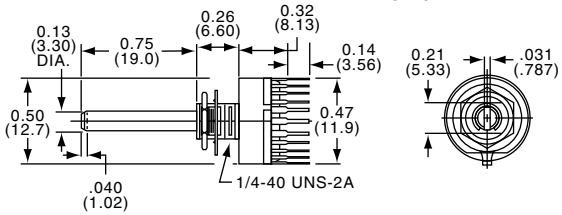
Application Note: Set stop positions by presetting external pin plate provided.

SPLASHPROOF 30° ANGLE OF THROW



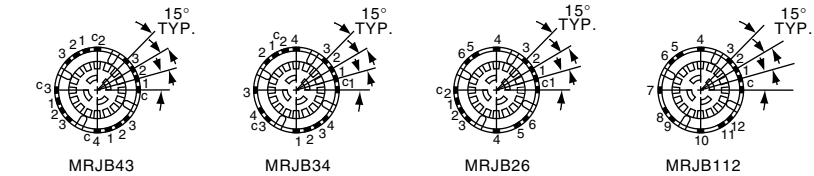


MRJE26



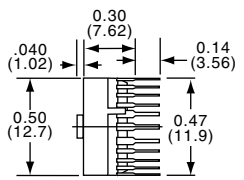
Part Number				
Tyco Electronics	Alcoswitch	No. Poles	Positions	Description
1-1437629-7	MRJE112	1 Pole	12 Continuous Rotation	
1-1437629-8	MRJE26	2 Poles	6 Fixed	Waterproof Seal on
1-1437629-9	MRJE34	3 Poles	4 Fixed	Shaft, Bushing & Base
2-1437629-0	MRJE43	4 Poles	3 Fixed	

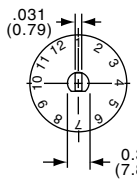
SPLASHPROOF 30° ANGLE OF THROW





MRJB26





Part Number				
Tyco Electronics	Alcoswitch	No. Poles	Positions	Description
1-1437629-3	MRJB112	1 Pole	12 Continuous Rotation	
1-1437629-4	MRJB26	2 Poles	6 Fixed	Waterproof Seal on
1-1437629-5	MRJB34	3 Poles	4 Fixed	Shaft, Bushing & Base
1-1437629-6	MRJB43	4 Poles	3 Fixed	

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Rotary Switches, 6000 Series

Alcoswitch 6000 Series Rotary Switches are used in programming electrical and mechanical circuits in machine tools, test equipment, and input data terminals. These manually operated switches are specifically designed to be mounted on a pc board and offer output capabilities which include: 8-position binary-coded octal (BC), 10-position binary-coded decimal (BCD), 16-position hexadecimal plus 10- and 16-position single pole decimal. All switches feature a small diameter and very low profile.

In addition to varied output capabilities, these versatile Alcoswitch switches can also be supplied in three different styles, allowing you to select the operation method best suited to your specific application. One version incorporates a slot which accepts a screwdriver, coin or other similar device. This particular style permits operation of the switch without sacrificing overall height. Its height of .220 [5.59] above the pc board is no greater than the usual board-mounted discrete components. The other two versions have either a bar-type knob or thumbwheel for their operation. All three styles can be rotated bidirectionally.

Rugged construction, positive detent action contacts plus large, readable characters are additional features of the Alcoswitch 6000 Series PC Board Rotary Switches. All these features, coupled with a fully enclosed design for better environmental protection, provide excellent electrical and mechanical performance.

PERFORMANCE CHARACTERISTICS

Current/Voltage Rating—
Signal application only.
Dielectric Breakdown Voltage—
500 VDC min.
Insulation Resistance—
1 x 108 ohms
Initial Contact Resistance—
25 milliohms (at 50 millivolts, 100 milliamperes) closed circuit
Circuit Capacitance—
5 picofarads (at 100 KHz)
Durability—
1000 cycles
Operating Torque—
2 - 12 inch-ounces initial and after durability
Temperature Rating—
Operating — -18°C to +88°C
Storage — -45°C to +88°C
Humidity—
Withstands an environment of +40°C and 95% RH for 96 hours

MATERIALS

Contacts—
Phosphor bronze, gold over nickel plated
Solder Tabs and Pins—
Coded Switches — Beryllium copper, tin plated
Single Pole Switches — Brass, tin plated
Structural Parts — Thermoplastic

Technical Documents
Product Specification—
108-7514
Instruction Sheet—
408-07523
Application Specification—
114-7005

Product Facts

- **Compact design — small diameter, low profile switches are ideal for pc board mounting**
- **Wide choice of outputs: 8-position binary-coded octal, 10-position binary-coded decimal, 16-position hexadecimal and 10- and 16-position single pole**
- **Versatile application — styles include slotted, bar-type and thumbwheel versions for hand rotation**
- **Positive switching — contacts have positive detent action**
- **All positions are easily identified by large readable characters or dots**
- **Optimum reliability — fully enclosed design protects contacts against contamination**

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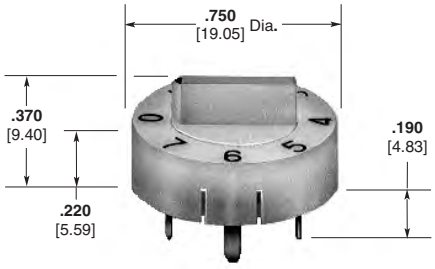
Rotary Switches, PC Mount, 8 or 10 Positions

8-POSITION BINARY CODED OCTAL (BCO)

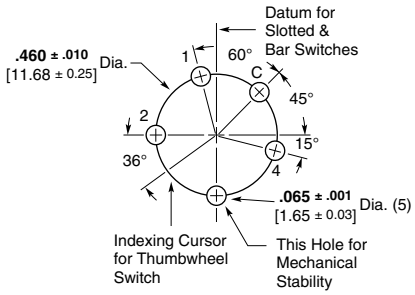
Switch Position	Common to: 1	2	3
0			
1	●		
2		●	
3	●	●	
4			●
5	●		●
6		●	●
7	●	●	●



Screwdriver/Coin Actuated
Part No. 435174-1



Bar-Type Knob
Part No. 1- 435174-1 (Shown)



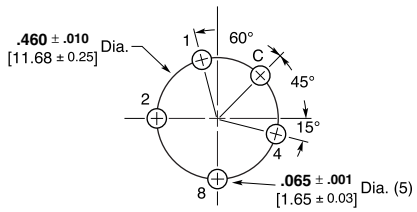
Recommended PC Board Hole Pattern
(Switch Side)

10-POSITION BINARY CODED DECIMAL (BCD)

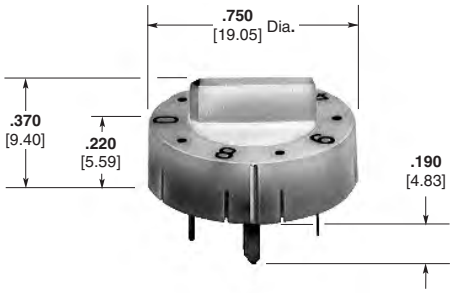
Switch Position	Common to: 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●



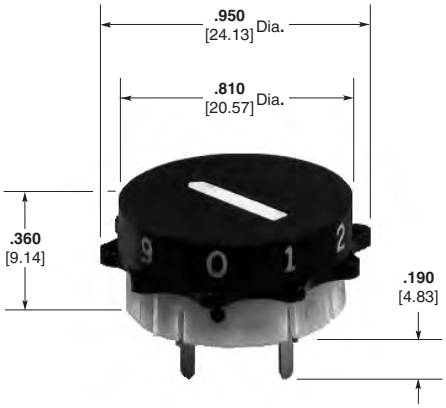
Screwdriver/Coin Actuated
Part No. 435005-1



Recommended PC Board Hole Pattern
(Switch Side)



Bar-Type Knob
Part No. 435123-1



Thumbwheel
Part No. 435128-1

G

6000 Series

Catalog 1308390
Issued 9-04

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Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

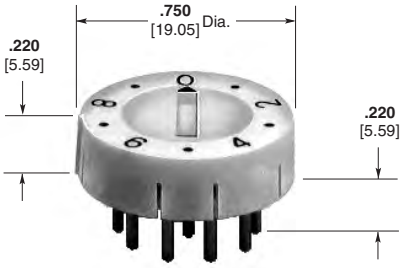
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

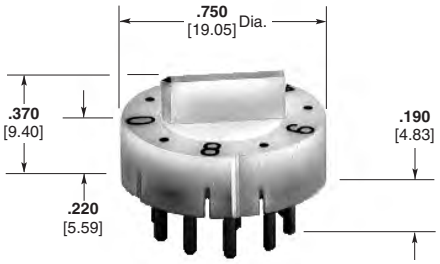
Rotary Switches, PC Mount, 10 or 16 Position

10-POSITION SINGLE POLE

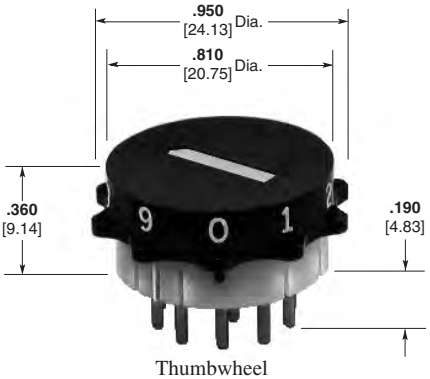
Switch Position	Common to: 0 1 2 3 4 5 6 7 8 9
0	●
1	●
2	●
3	●
4	●
5	●
6	●
7	●
8	●
9	●



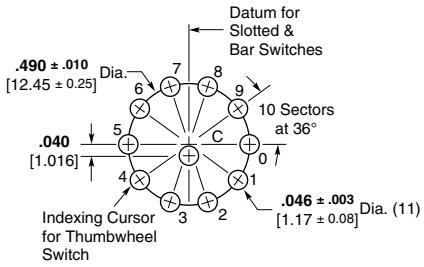
Screwdriver/Coin Actuated
Part No. 1-435097-1



Bar-Type Knob
Part No. 2-435097-1



Thumbwheel
Part No. 435097-1 (Shown)
Part No. 435097-2 (With Numbers 1 - 10)



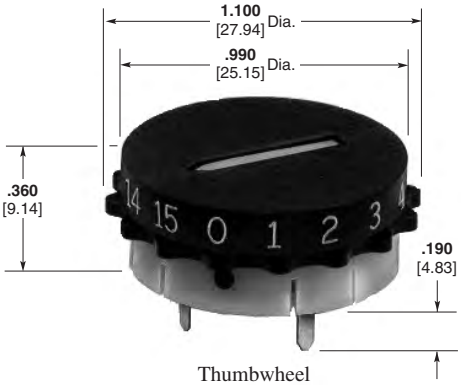
Recommended PC Board Hole Pattern
(Switch Side)

16-POSITION HEXADECIMAL

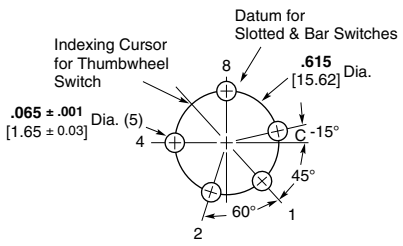
Switch Position	Common to: 1 2 4 8
0	
1	●
2	●
3	● ●
4	●
5	● ●
6	● ●
7	● ● ●
8	●
9	● ●
10	● ●
11	● ● ●
12	● ●
13	● ● ●
14	● ● ●
15	● ● ● ●



Bar-Type Knob
Part No. 1-435167-1



Thumbwheel
Part No. 2-435167-1 (Shown)



Recommended PC Board Hole Pattern
(Switch Side)

G

6000 Series

Catalog 1308390
Issued 9-04

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Dimensions are shown for reference purposes only. Specifications subject to change.

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Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

3100 Series Rotary Switches

Alcoswitch Rotary Switches provide a highly reliable means of manually programming various types of electronic equipment. They are specifically designed for logic level circuitry, but are capable of controlling electrical circuits that operate at current ratings of 2 amperes, 115 VAC (nonswitching) and up to 125 milliamperes, 115 VAC (switching).

Positive detent action, with a quick make/break operation, is provided by durable stainless steel balls and springs as well as the detents which form an integral part of the housing. All contact surfaces are fully enclosed within the housing, thus greatly reducing operational failures due to dirty contacts. The contacts are made of phosphor bronze with gold-over-nickel plating.

Alcoswitch Rotary Switches can be supplied with a variety of options to afford complete application versatility and adaptability. Output codes include decimal, BCD and BCD complement with 10, 12, 16, 24 and 32 switching positions.

Interconnection of switches may be achieved by the use of AMPMODU receptacles. Stops supplied with the switches may be customer installed when it is desired to limit rotation to less than 360°.

PERFORMANCE CHARACTERISTICS

Circuit Current Rating—
Nonswitching — 2.0 amperes at 115 VAC max.
Switching (Resistive Load) — 125 milliamperes at 115 VAC max.

Dielectric Withstanding Voltage—
500 VDC

Insulation Resistance—
1 x 108 ohms min. at 100 VDC

Initial Contact Resistance—
150 milliohms (input terminal to output terminal)

Initial Operating Force—
1⁄2 to 2 in.-lbs.

Contact Life Expectancy—
25,000 rotations at rated load

Operating Temperature—
-18°C to +88°C

MATERIALS

Housing—
Polyester, black

Detent Ball and Spring—
Stainless steel

Operating Shaft and Detent—
Thermoplastic, 94V-0 rated, black

Printed Circuit Board—
Flame retardant, glass epoxy laminate, copper clad

Contacts—
Phosphor bronze, gold-over-nickel plated

Hardware—
Brass or corrosion resistant steel

TECHNICAL DOCUMENTS

Product Specification—
108-7518

Instruction Sheet—
408-07936



Product Facts

- **Code flexibility — switch output capabilities include decimal, BCD and BCD complement, and various other codes**
- **Positive switching — positive detent action of stainless steel detent balls and springs assures error-free operation**
- **Enclosed contacts — contact surfaces are better protected against dirt, dust and other environmental hazards**

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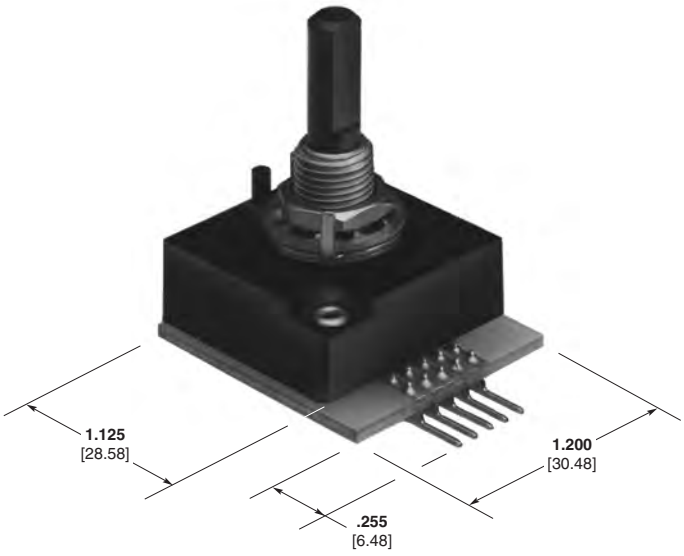
Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

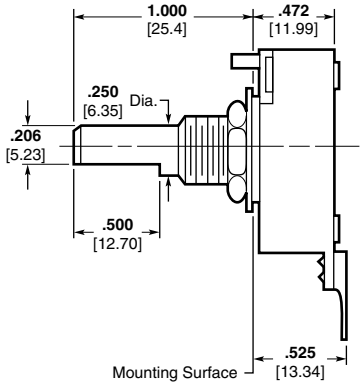
Dimensions are shown for reference purposes only. Specifications subject to change.

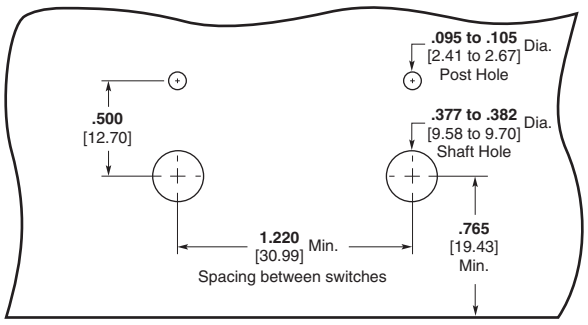
USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary Switches, PC Mount, 10, 12 or 16 Position

10-, 12- AND 16-POSITION SWITCHES







Panel Cutout

Note: See Section K for knob selection.

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Issued 9-04

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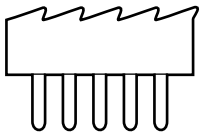
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Rotary Switches, PC Mount, 10, 12 or 16 Position

CODING



					Part No.
2	1	C	8	4	435984-1,7
8	2	4	1	C	436037-1
1	2	C	8	4	435986-1
$\overline{2}$	C	$\overline{1}$	$\overline{8}$	$\overline{4}$	436022-1
C	$\overline{4}$	$\overline{8}$	$\overline{1}$	$\overline{2}$	436024-1
$\overline{8}$	$\overline{2}$	$\overline{4}$	C	$\overline{1}$	435987-1

10-Position 36° Throw BCD

Part No. 435984-1 (Shown)
Part No. 435984-7 (Right Angle)

Switch Position	Common to: 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●

12-Position 30° Throw BCD

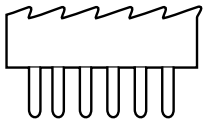
Part No. 436037-1

Switch Position	Common to: 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
10		●		●
11	●	●		●

16-Position 22½° Throw Hexadecimal

Part No. 435986-1

Switch Position	Common to: 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
10		●		●
11	●	●		●
12			●	●
13	●		●	●
14		●	●	●
15	●	●	●	●



10-Position 36° Throw BCD Complement

Part No. 436022-1

Switch Position	Common to: $\overline{1}$	2	4	$\overline{8}$
0	●	●	●	●
1		●	●	●
2	●		●	●
3			●	●
4	●	●		●
5		●		●
6	●			●
7				●
8	●	●	●	
9		●	●	

12-Position 30° Throw BCD Complement

Part No. 436024-1

Switch Position	Common to: $\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0	●	●	●	●
1		●	●	●
2	●		●	●
3			●	●
4	●	●		●
5		●		●
6	●			●
7				●
8	●	●	●	
9		●	●	
10	●		●	
11			●	

16-Position 22½° Throw HEX Complement

Part No. 435987-1

Switch Position	Common to: $\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0	●	●	●	●
1		●	●	●
2	●		●	●
3			●	●
4	●	●		●
5		●		●
6	●			●
7				●
8	●	●	●	
9		●	●	
10	●		●	
11			●	
12	●	●		
13			●	
14	●			
15				

24-Position 15° Throw BCD

Part No. 436028-1

Switch Position	Common to: 1	2	4	8	16
0					
1	●				
2		●			
3	●	●			
4			●		
5	●		●		
6		●	●		
7	●	●	●		
8				●	
9	●			●	
10		●		●	
11	●	●		●	
12			●	●	
13	●		●	●	
14		●	●	●	
15	●	●	●	●	
16					●
17	●				●
18		●			●
19	●	●			●
20			●		●
21	●		●		●
22		●	●		●
23	●	●	●		●

Note: See Section K for knob selection.

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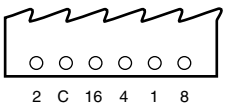
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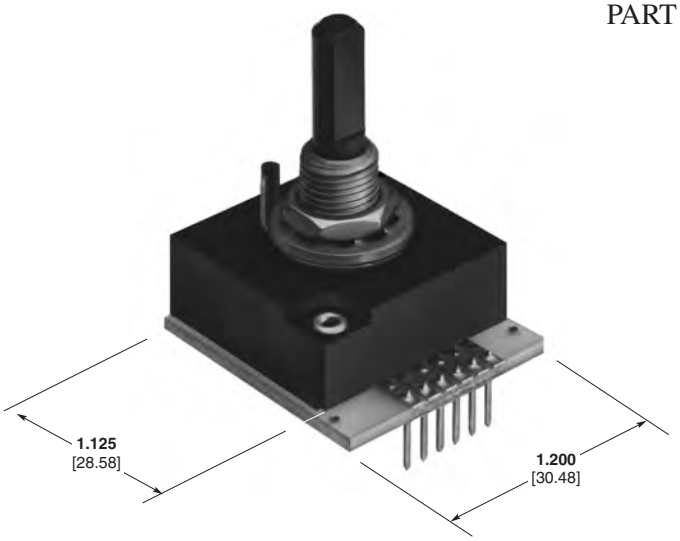
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

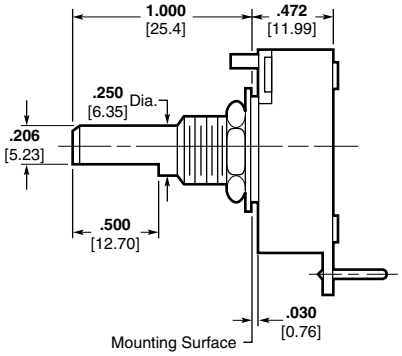
Rotary Switches, PC Mount, 32 Position

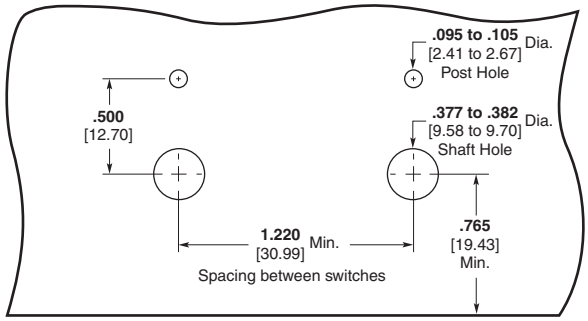
32-POSITION
11¼° THROW BCD
PART NO. 436287-1



Switch Position	Common to: 1	2	4	8	16
0					
1	●				
2		●			
3	●	●			
4			●		
5	●		●		
6		●	●		
7	●	●	●		
8				●	
9	●			●	
10		●		●	
11	●	●		●	
12			●	●	
13	●		●	●	
14		●	●	●	
15	●	●	●	●	
16					●
17	●				●
18		●			●
19	●	●			●
20			●		●
21	●		●		●
22		●	●		●
23	●	●	●		●
24				●	●
25	●			●	●
26		●		●	●
27	●	●		●	●
28			●	●	●
29	●		●	●	●
30		●	●	●	●
31	●	●	●	●	●







Panel Cutout

Note: See Section K for knob selection.

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Engineering Notes

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2SWK Series - Page H2



SKF Series - Page H4



SKT Series - Page H3



SWK Series - Page H5

Keylock

Keylock Part Number Index

2SKF131AEL01 .....H4
2SKF132AEL01 .....H4
2SKF133AEL01 .....H4
2SKF231AEL01 .....H4
2SWK131AL101 .....H2
2SWK132AL101 .....H2
2SWK231AL101 .....H2
SKF1323AEL01 .....H4
SKT13.....H3
SKT131AEL01 .....H3
SKT131GAEL01 .....H3
SKT1323AEL01 .....H3
SKT132AEL01 .....H3
SKT132GAEL01 .....H3
SKT331AEL01 .....H3
SKT331GAEL01 .....H3
SKT332AEL01 .....H3
SKT332GAEL01 .....H3
SWK12 .....H5
SWK121F315 .....H5
SWK123F315 .....H5
SWK12F315 .....H5
SWK12KF315 .....H5
SWK1323AL101 .....H2

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Key Switches, Medium Security

MATERIAL SPECIFICATIONS

Contacts .....Silver
Cylinder Material.....Zinc alloy
Lock Body .....Zinc alloy
Key Material .....Brass
Terminals/Fixed Contacts ...Screw type
Beveled Frame Finish .....302 Stainless steel

ENVIRONMENTAL SPECIFICATIONS

Solder Heat Resistance .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....1A at 120 VAC resistive
Initial Contact Resistance.....50 Milliohms max.
Contact Timing.....Non-shorting
Plunger/Actuator Travel .....90°
Key Changes .....25 Standard
Life Expectancy .....Up to 10,000 Cycles

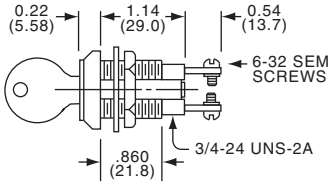
NOTE: All Keylocks are supplied with 2 brass keys on a ring.

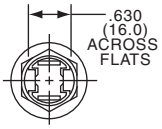
SPST

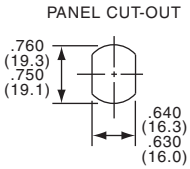
5 Disc Tumblers

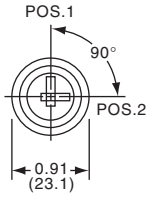


2SWK131









Part Number						Part Number					
Tyco Electronics	Alcoswitch	Type	Pos. 1	Pos. 2	Remove Key	Tyco Electronics	Alcoswitch	Type	Pos. 1	Pos. 2	Remove Key
1-1437597-7	2SWK131AL101	SPST	Off	On	Position 1	2-1437597-7	2SWK231AL101	SPST	Off	(On)	Position 1
2-1437597-3	2SWK132AL101	SPST	Off	On	Position 1 or 2	4-1437597-3	SWK1323AL101	Spare Key for SWK Series (On) indicates momentary position.			

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Japan: 81-44-844-8013
UK: 44-141-810-8967

2 Position Key Switch

MATERIAL SPECIFICATIONS

Contacts ..... Gold or silver plate
Cylinder Material ..... Zinc alloy
Lock Body ..... Zinc alloy
Key Material ..... Brass
Terminals/Fixed Contacts ..... Tin lead plate
Terminal Seal ..... SP epoxy

ENVIRONMENTAL SPECIFICATIONS

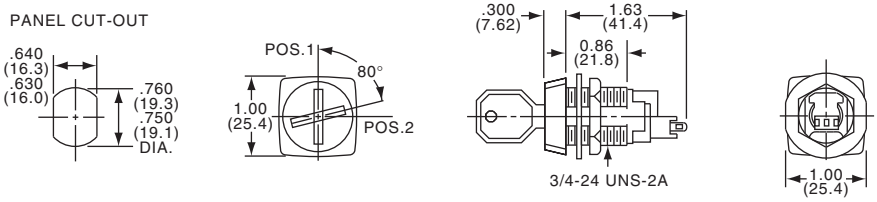
Operating Temperature ..... -30°C to +85°C (-22°F to +185°F)
Storage Temperature ..... -30°C to +85°C (-22°F to +185°F)
Solder Heat Resistance ..... See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating ..... Gold: 0.4 VA max. @ 20 VDC or peak AC
Silver: 3A @ 125 VAC or 28 VDC resistive
Initial Contact Resistance ..... 20 Milliohms max.
Contact Timing ..... Non-shorting
Insulation Resistance ..... 1,000 Megohms @ 500 VDC min.
Dielectric Strength ..... 1,000 Volts @ sea level
Actuator Travel ..... 80°

Note: All keylocks are supplied with 2 brass keys on a ring.

SPDT/DPDT
4 Disc Tumblers





SKT131

Tyco Electronics	Alcoswitch	Type	⊕	⊖	Remove Key	Contacts
1437598-4	SKT131AEL01	SPDT	On	On	1 Only	Silver
1437598-5	SKT131GAEL01	SPDT	On	On	1 Only	Gold
1437598-7	SKT132AEL01	SPDT	On	On	1 or 2	Silver
1437598-8	SKT132GAEL01	SPDT	On	On	1 or 2	Gold
1437598-9	SKT331AEL01	DPDT	On	On	1 Only	Silver
1-1437598-0	SKT331GAEL01	DPDT	On	On	1 Only	Gold
1-1437598-1	SKT332AEL01	DPDT	On	On	1 or 2	Silver
1-1437598-3	SKT332GAEL01	DPDT	On	On	1 or 2	Gold
3-1437598-4	SK1323AEL01	Spare key for SKT13 Series				

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Medium Security Key Switch

MATERIAL SPECIFICATIONS

Contacts .....Silver
Cylinder Material .....Zinc alloy
Lock Body .....Zinc alloy
Key Material .....Brass
Terminals/Fixed Contacts ...Screw type
Beveled Frame Finish .....Brushed chrome

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....-22°F + 185° F (-30°C to +85°C(
Storage Temperature .....-22°F + 185° F (-30°C to +85°C)
Solder Heat Resistance .....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating.....1 A @ 120 VAC resistive
Initial Contact Resistance ...50 Milliohms max.
Contact Timing .....Non-shorting
Actuator Travel .....90°
Key Changes .....10 Standard
Life Expectancy .....Up to 10,000 Cycles

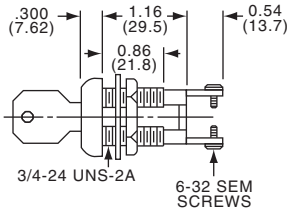
NOTE: All Keylocks are supplied with 2 brass keys on a ring.

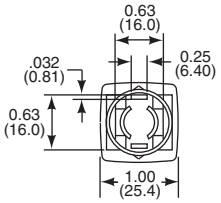
SPST

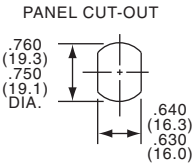
4 Disc Tumblers

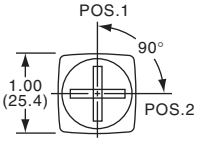


SKF131









Tyco Eelctronics	Alcoswitch	Type	Pos. 1	Pos. 2	Remove Key
1437597-1	2SKF131AEL01	SPST	Off	On	Position 1
1437597-7	2SKF132AEL01	SPST	Off	On	Position 1 or 2
1-1437597-0	2SKF133AEL01	SPST	On	Off	Position 1

Tyco Eelctronics	Alcoswitch	Type	Pos. 1	Pos. 2	Remove Key
1-1437597-1	2SKF231AEL01	SPST	Off	(On)	Position 1
3-1437597-4	SK1323AEL01	Spare key for SK Series (On) indicates momentary position.			

H

SKF Series

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Japan: 81-44-844-8013
UK: 44-141-810-8967

High Security Key Switch

MATERIAL SPECIFICATIONS

Contacts .....Silver
Cylinder Material .....Zinc alloy
Lock Body .....Zinc alloy
Actuator Material .....Brass key
Terminals/Fixed Contacts.....Screw type
Beveled Frame Finish .....Polished chrome

ENVIRONMENTAL SPECIFICATIONS

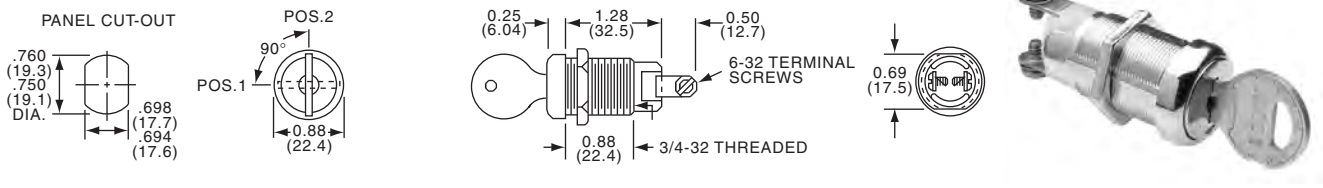
Operating Temperature.....-22°F to +185° (-30°C to +85°C)
Storage Temperature .....-22°F to +185° (-30°C to +85°C)
Solder Heat Resistance.....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....5A @ 115 VAC, 15A @ 24 VDC
..... resistive
Initial Contact Resistance ...50 Milliohms max.
Contact Timing .....Non-shorting
Dielectric Strength .....1,000 VAC @ sea level
Actuator Travel .....90°
Key Changes .....25 Standard
Life Expectancy .....Up to 20,000 Cycles

NOTE: All Keylocks are supplied with 2 brass keys on a ring.

SPST
8 Disc Tumblers



SWK12

Tyco Electronics	Alcoswitch	Type	Pos. 1	Pos. 2	Remove Key
4-1437597-0	SWK12F315	SPST	On	Off	Position 1 or 2
3-1437597-6	SWK121F315	SPST	On	Off	Position 2
3-1437597-8	SWK123F315	SPST	On	Off	Position 1
4-1437597-2	SWK12KF315	Spare key for SWK12 Series			

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Engineering Notes

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Industrial Controls



RT Series - Page I3
22mm Mounting



QT Series - Page I4
22mm Mounting



RM Series - Page I5
22mm Mounting



Block Assemblies - Page I8



6000 Series - Page I11
30mm Mounting



164/165 Command Series - Page I16
16mm Mounting

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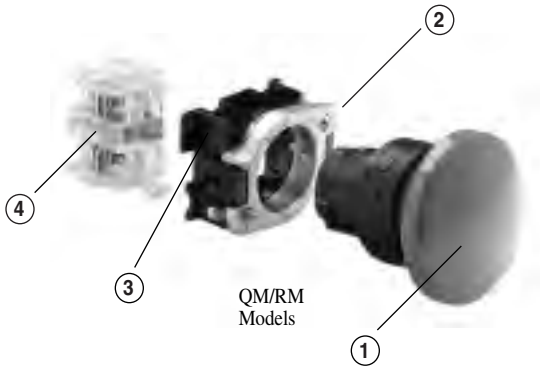
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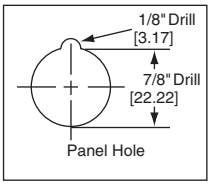
Pushbutton Switches, 22mm, Oil-Tight, Round

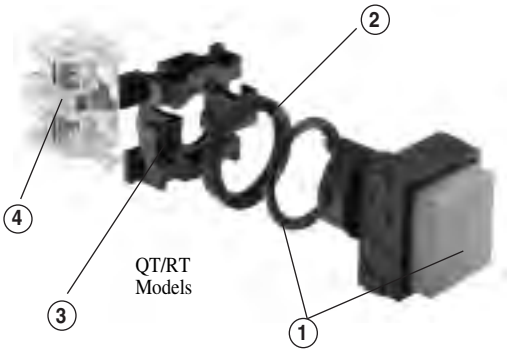
FEATURES

- Fits 7/8" (22mm) diameter holes
- Full size buttons
- Meets NEMA 1, 12 and 13
- Rugged heavy-duty metal bushing, or thermoplastic bushings for full installation
- Matte black beveled frame finish
- IP65 protection level
- Snap-block contacts
- 6A @ 600VAC, 6A @ 125VDC V40, V50, F40, F50
  6A @ 600VAC, 4A @ 125VDC VAO, VRO, FAO, FRO
- Easy "no tool" mounting
- Choice of screw terminals or dual .110/.250 quick connects
- Double-break silver contacts standard, gold plated optional
- Stackable



QM/RM Models





QT/RT Models

INSTALLATION & ASSEMBLY

A. Engage the operator (1) into the 22.5mm dia. mounting hole.

B. Engage metal ring (2) with operator (bayonet lock). Tighten set screws against back of panel.

C. Snap the contact blocks (4) on the support(3).

D. Snap the support (3) complete with contact blocks (4) on the metal ring (2).

A. Engage the operator and seal (1) into the 22.5mm dia. mounting hole.

B. Mount back-up nut (2) on bushing and then tighten against panel.

C. Snap the contact blocks (4) on the support (3).

D. Snap the support (3) complete the contact blocks (4) onto operator (1).

MOMENTARY

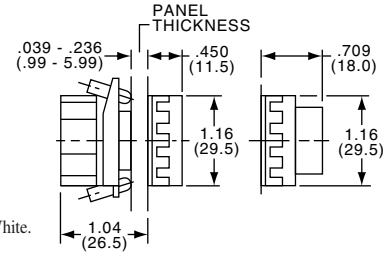
Metal Bushings

Contact blocks not supplied, order separately.
(See page I8.)

Model	Type
RM010(*)	Flush Button
RM020(*)	Extended Button
RM015(*)	Extended Guard

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.



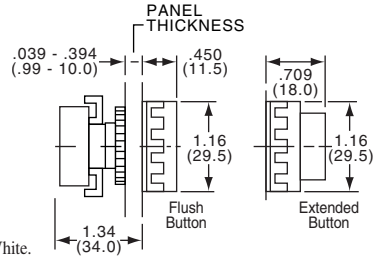
Thermoplastic Bushings (Threaded)

Contact blocks not supplied, order separately.
(See page I8.)

Model	Type
RT010(*)	Flush Button
RT020(*)	Extended Button

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.





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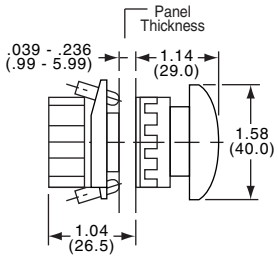
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Pushbutton Switches, 22mm, Oil-Tight, Round or Mushroom or Dual Button



RM0502



MOMENTARY

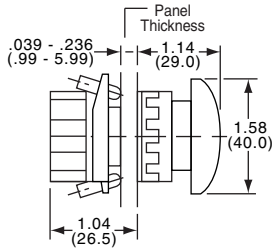
Mushroom
Contact blocks not supplied, order separately. (See page I8.)

Tyco Electronics	Alcoswitch	Type	Bushing
3-1437614-7	RM0502	Mushroom, Red	Metal, Bayonet
1437615-2	RT0502	Mushroom, Red	Thermoplastic, Threaded Bushing
3-1437614-6	RM0500	Mushroom, Black	Metal, Bayonet
1437615-1	RT0500	Mushroom, Black	Thermoplastic, Threaded Bushing
3-1437614-9	RM0552 RT050(*)	Mushroom, Red Mushroom	Metal, Bayonet (Wobble)

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue.
Note: Front beveled frame is black.



RM0652



PUSH-TO-LOCK, TWIST-RELEASE

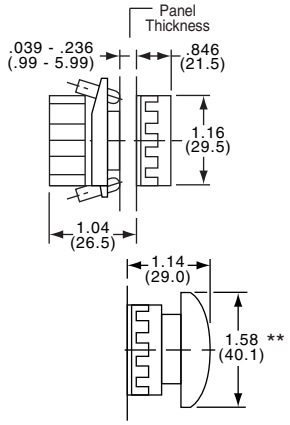
Metal Bushings
Contact blocks not supplied, order separately. (See page I8.)
Note: Use F40/V40 for N.C. contacts, and
FAO/VAO for N.O. contacts.

Tyco Electronics	Alcoswitch	Type	Arrow
4-1437614-0	RM0652	Mushroom, Red	White

Note: Front beveled frame is black.



RM030(*)



MAINTAINED

Contact blocks not supplied, order separately. (See page I8.)
Note: Use F40/V40 for N.C. contacts and
FAO/VAO for N.O. contacts.

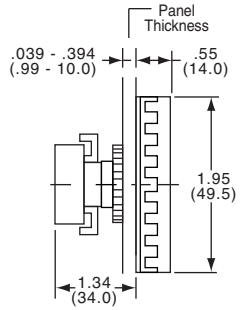
Tyco Electronics	Alcoswitch	Type
—	RM030(*)	Flush Button
3-1437614-4	RM0450	Mushroom, Black
3-1437614-5	RM0452	Mushroom, Red
3-1437614-8	RM0532	Push-Pull, Mushroom, Red

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.
**** Note: RM0532 mushroom 35mm Dia. (1.38)**



QT01201



MOMENTARY DUAL OPERATOR*

Threaded Thermoplastic bushing
Contact blocks not supplied, order separately. (See page I8.)
Black buttons available.

Tyco Electronics	Alcoswitch	Color	Legend
1437614-9	QT01201	Green, Red	As Shown
—	QT012STSTH	Green, Red	Start & Stop Horizontal

*Not oil tight construction, not sealed; meets NEMA 1 only.
Note: Front beveled frame is black.

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton or Keylock or Selector Switches, 22mm, Oil-Tight

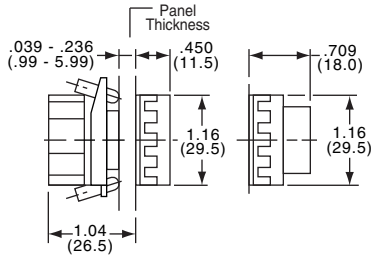
MOMENTARY

Metal Bushings
Contact blocks not supplied, order separately. (See page I8.)

Model	Type
QM010(*)	Flush Button
QM020(*)	Extended Button

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.





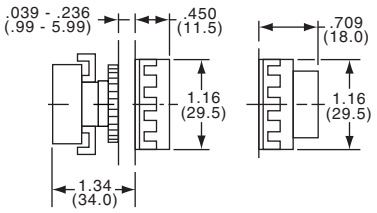
QM010(*)

Thermoplastic Bushings (Threaded)
Contact blocks not supplied, order separately. (See page I8.)

Model	Type
QT010(*)	Flush Button
QT020(*)	Extended Button

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.





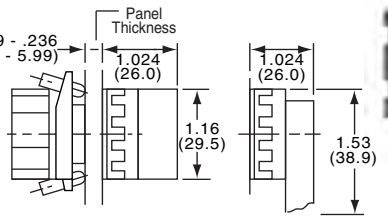
QT010(*)

2 POSITION SELECTORS/KEYLOCK MAINTAINED

Metal Bushings
Contact blocks not supplied, order separately.
(See page I8.)

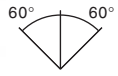
Tyco Electronics	Alcoswitch	Action	Throw	CAM	Remove Key
7-1437614-7	RM4040	Maintained, Black	120°	1	Long Selector
7-1437614-0	RM3040	Maintained, Black	120°	1	Selector
5-1437614-4	RM200	Maintained	60°	1	⊕
5-1437614-5	RM201	Maintained	60°	1	⊘
6-1437614-5	RM250	Momentary, Right	60°	1	⊕
5-1437614-6	RM204	Maintained	120°	1	⊖
5-1437614-7	RM205	Maintained	120°	1	⊗
1437614-1	E1	Spare Key			

Note: Front beveled frame is black.





RM4040





RM3040



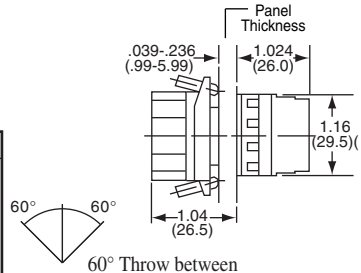
RM200/201 with/2 keys

3 POSITION SELECTORS

Short Handle, Metal Bushings
Contact blocks not supplied, order separately. (See page I8.)

Tyco Electronics	Alcoswitch	Action	CAM	Tyco Electronics	Alcoswitch	Action	CAM
7-1437614-1	RM3100	Maintained, Black	2	7-1437614-4	RM3700	Momentary, Right Side, Black	2
7-1437614-2	RM3120	Maintained, Black	3	7-1437614-5	RM3800	Double Momentary, Black	2
7-1437614-3	RM3130	Maintained, Black	4	7-1437614-6	RM3830	Double Momentary, Black	4

Note: Front beveled frame is black.



60° Throw between positions

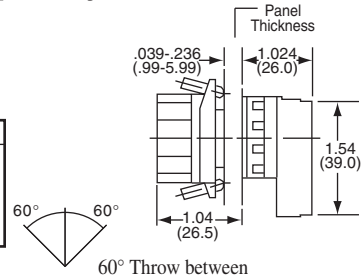


RM3100

Long Handle, Metal Bushings
Contact blocks not supplied, order separately. (See page H8.)

Tyco Electronics	Alcoswitch	Action	CAM	Tyco Electronics	Alcoswitch	Action	CAM
7-1437614-8	RM4100	Maintained	2	—	RM4700	Momentary, Right Side	2
—	RM4120	Maintained	3	7-1437614-9	RM4800	Double Momentary	2
—	RM4130	Maintained	4				

Note: Front beveled frame is black.



60° Throw between positions



RM4100

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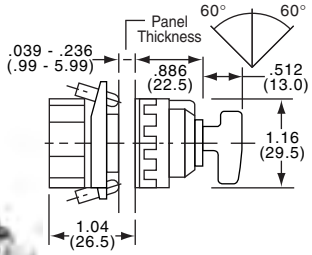
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UK: 44-141-810-8967

Keylock or Pushbutton Switches, 22mm, Oil-Tight or Pilot Lights





Supplied with 2 keys

3 POSITION KEYLOCK SELECTOR MAINTAINED OR MOMENTARY

Metal Bushings
Contact blocks not supplied, order separately. (See page I8.)

Tyco Electronics	Alcoswitch	Action	CAM	Remove Key	Tyco Electronics	Alcoswitch	Action	CAM	Remove Key
5-1437614-8	RM210	Maintained	2		6-1437614-4	RM243	Maintained	4	
5-1437614-9	RM220	Maintained	2		6-1437614-6	RM270	Mom. Right Side	2	
6-1437614-0	RM222	Maintained	3		6-1437614-7	RM272	Mom. Right Side	3	
6-1437614-1	RM230	Maintained	2		6-1437614-8	RM273	Mom. Right Side	4	
6-1437614-2	RM232	Maintained	3		6-1437614-9	RM280	Mom. Both Sides	2	
6-1437614-3	RM233	Maintained	4		1437614-1	E1	Spare Key		
—	RM240	Maintained	2						

Note: Front beveled frame is black.

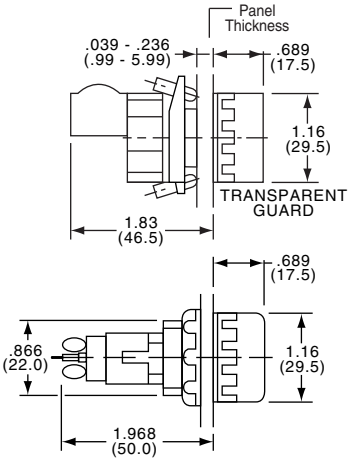


QM600
(RM600)

Metal Bushing



SR601
Threaded
Thermoplastic
Bushing Front lampable

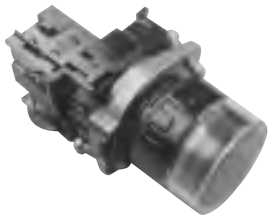


PILOT LIGHTS (FULL VOLTAGE TYPE)

Lamps: order separately, miniature bayonet base. (See page I15.)
Lamps: use G3 1/2 on QM600(*), use T3 1/4 on SR601(*), RM600(*). Custom legends available.

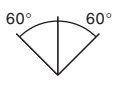
Model	Type
QM600(*)	Square pilot light, metal bushing
SR601(*)	Round pilot light, plastic bushing screw turn
RM600(*)	Round pilot light, metal bushing

(*) Specify color by adding suffix number: (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.

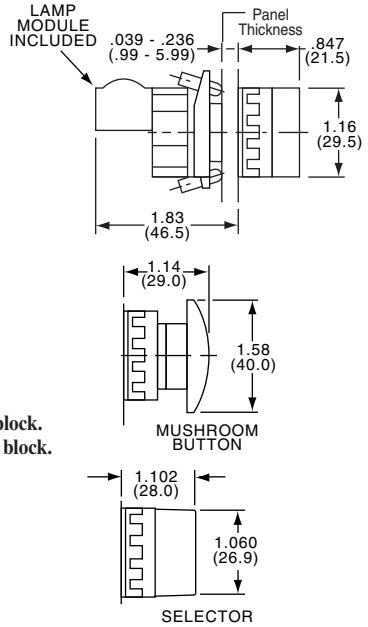


RM120(*)

Application Note:
+V40/F40 used for N.C contact block.
+VA0/FA0 used for N.O.contact block.



60° Throw between positions



ILLUMINATED/ROUND MOMENTARY/MAINTAINED

Metal Bushing
Contact blocks not supplied, order separately. (See page I8.)
Lamp circuit isolated. Order lamp separately. (See page I15.)
Lamps: Use T-3 1/4 or G3 1/2 incandescent or neon lamps.

Tyco Electronics	Alcoswitch	Action	Type	Cam Type
—	RM120(*)	Momentary	Extended Button	
—	RM122(*)	Momentary	Guarded Button	
—	+RM130(*)	Maintained	Flush Button	Push-On - Push-Off See Application Note
—	+RM145(*)	Maintained	Mushroom	
—	RM150(*)	Momentary	Mushroom	
5-1437614-3	RM1652	Twist Release	Mushroom, Red	
Illuminated Selectors				
—	RM650(*)	Maintained	2-Pos. Selector**1	
—	RM653(*)	Maintained	3-Pos. Selector**2	

When operating from line voltage use step down transformers 5BO or 570. (See page I15.)
(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: RM145 and RM150 available only in red, yellow, green.
**Use G3 1/2 lamps only.

Note: Front beveled frame is black.

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UK: 44-141-810-8967

Pushbutton Switches, 22mm, Oil-Tight, Round or Square Buttons

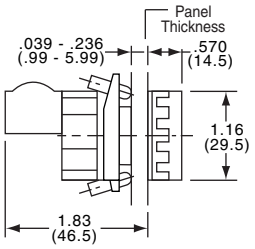
SQUARE, MOMENTARY ILLUMINATED

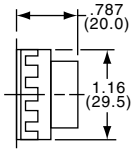
Metal Bushing
Contact blocks not supplied, order separately. (See page I8.)
Lamp circuit isolated. Order lamps separately.
Lamps: Use G3 1/2. (See page I15.)
Custom legends available.

Model	Type
QM122(*)	Flush Button
QM120(*)	Extended Button

When operating from line voltage use step down transformers 5BO or 570. (See page I15.)
(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: Front beveled frame is black.







QM122(*)



QM120(*)

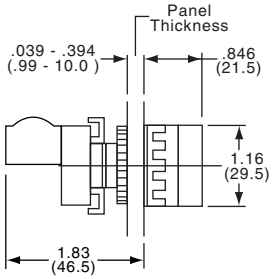
ROUND, MOMENTARY ILLUMINATED

Thermoplastic
Contact blocks not supplied, order separately. (See page I8.)
Lamp circuit isolated. Order lamps separately. (See page I15.)
Lamps: use T-3 1/4 or G3 1/2 incandescent or neon lamps.

Model	Action	Type
RT120(*)	Momentary	Extended Button

When operating from line voltage use step down transformers 5BO or 570. (See page I15.)
(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: Front beveled frame is black.





RT120(*)

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Standard Contact Blocks

An almost unlimited number of circuit control options are possible using various combinations of contact blocks. 8 different "V" or "F" family modular blocks may be used with any operator in the Reliant 22, 2200 or 6000 series, depending on circuit requirements and operator design. The exclusive SNAP-BLOC design permits assembly without the use of tools – no screws or hardware to get lost. Choose either screw terminals or dual male .110"/.250" quick connect terminals. Plunger color indicates closure mode. The double break silver contacts are enclosed in a tough transparent polycarbonate housing, permitting visual inspection of contacts. Designed-in rocking action for long, reliable life; over several million operations in normal use. Operating temperature range: -25°C to +60°C. Storage temp. -40°C to +80°C.

Application Notes

1. A total of 4 (2 upper and 2 lower) contact blocks may be stacked and snap-mounted in either the upper and/or lower position on the back on any Reliant 22, Series 4000 or 6000 operator.
2. In order to maintain optimum insulating distances when contact blocks are stacked, wiring connections should be in same polarity for operation above 300VAC.
3. Blocks may be prewired and snapped into place for easier assembly.
4. Remove blocks by simply prying tabs. Small screwdriver is all that is necessary.

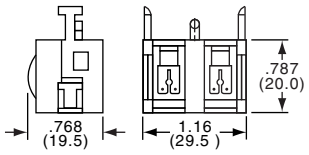
F&V Contact blocks are UL recognized. File Number E-60363
CSA LR-20785-19 CE MARK

ELECTRICAL CONTACT RATINGS

Condition	Function	Standard Series (600 VAC Max.)		
AC Operation		120V	300V	600V
Inductive Loads	Make	30A	12A	6A
	Continuous	6A	6A	6A
.350 P.F. min.	Break	3A	1.2A	0.6A
Resistive Loads	Make, Continuous	6A	6A	6A
.750 P.F. min.	Carry & Break			
DC Operation				
Inductive &	Make	1.1A		
Resistive	Continuous Carry	6A	6A	6A
Loads	Break	1.1A		



F Series



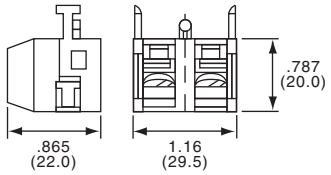
QUICK CONNECT

Tyco Electronics	Alcoswitch	Contacts	Plunger Color
1437612-9	F40	Normally Closed	Red
1-1437612-0	F50	Normally Open	Green
1-1437612-1	FA0	N.O. Early Make	Yellow
1-1437612-2	FR0	N.C. Late Break	Black

Note: FA0 and FR0 contacts "overlap."



V Series



SCREW TERMINAL

Tyco Electronics	Alcoswitch	Contacts	Plunger Color
1-1437612-3	V40	Normally Closed	Red
1-1437612-5	V50	Normally Open	Green
1-1437612-8	VA0	N.O. Early Make	Yellow
1-1437612-9	VR0	N.C. Late Break	Black

Note: "V" Series is available with gold plated contacts; order V40G, V50G, VA0G, VR0G. Note: VAO and VRO contacts "overlap."

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Series 6000 and Reliant'22 Contact Selection

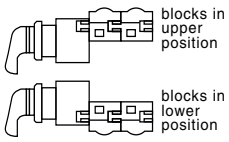
1. Determine how many contacts are required for the application, and what contact closure sequence is needed for each contact.
   a. 2-Position Operators: There are only two practical possibilities for contact closure sequence. Using "O" to indicate an open and "X" to indicate a closed contact, the options are shown in the table to the right. All Reliant 22 and Series 6000 2-position selection selector and keylock operators provide these options.
   b. 3-Position Operators: There are six practical possibilities for contact closure sequence. Using "O" to indicate an open contact, and "X" to indicate a closed contact, the options are shown in the table to the right. Four different cam types are available to provide various combinations of contact closure sequence. Cam Type 2 (see table below) provides the most popular closure sequence, and Cam Type 3 provides all six possibilities, depending on the contact block models chosen. Note that each operator has an upper and lower contact block location, and that the cam profiles are different for upper and lower locations, except for Cam Type 2.
2. Make a truth table similar to that shown in the example at the bottom of the page, in which each contact required by the circuit of the application is represented. Up to 12 contacts may be used for each operator, depending on the sequences required and the types of contact blocks chosen.
3. Refer to the contact sequence table (below). Find the cam type that will provide all of the required contact closure sequences, and note which contact block model will be needed for each circuit contact.
4. Now refer to the tables on pages I5-I6 for 22mm and pages I12-I13 for 30mm to find the operator model that has the cam type needed in the application and that provides the desired features with respect to action (maintained or momentary) type of actuator (lever or key), etc.

2 Position Operators	
0 left	1 right
O	X
X	O

3 Position Operators		
2 left	0 center	1 right
O	O	X
X	O	O
O	X	X
X	X	O
O	X	O
X	O	X

SELECTOR & KEYLOCK OPERATORS

ALCOSWITCH selector and keylock operators, in combination with the contact blocks listed on page I8, are designed to fulfill the circuit requirements of almost any 2- or 3-position control application. Each operator has two locations (upper and lower) into which contact blocks may be snap-mounted. Up to four contact blocks may be stacked in each location, the maximum number depending on the contact block models chosen and the contact closure sequences required. (Note: only one logic level block may be used in each location.)



CONTACT CLOSURE SEQUENCE CHART

Contact Blocks	2-Position Operators	3-Position Operators							
Model	CAM Type 1 upper & lower locations	CAM Type 2 upper location	CAM Type 2 lower location	CAM Type 3 upper location	CAM Type 3 lower location	CAM Type 4 upper location	CAM Type 4 lower location		
	0 1	2 0 1	2 0 1	2 0 1	2 0 1	2 0 1	2 0 1		
V40 or F40 Red	X 0	X 0 0	X 0 0	X 0 0	0 X 0	0 X X	X X 0		
V50 or F50 Green	0 X	0 0 X	0 0 X	0 0 X	0 0 X	X 0 0	0 0 X		
VA0 or FA0 Yellow	0 X*	0 X X	0 X X	0 X X	X 0 X	X 0 0	0 0 X		
VR0 or FR0 Black	X 0*	X X 0	X X 0	X X 0	X X 0	0 X X	X X 0		

X = Closed 0 = Open *VA0 and FA0 contacts overlap with VR0 and FR0 contacts between position of 2 position operators providing "Make Before Break" action.

Example: An "Off-On-Reset" circuit control requires a 3-position or 2-position keylock switch. The key is to be removable in the "OFF" and "ON" position and the "Reset" position must be momentary (spring return from right to center). All contacts are open in the "Off" position, and two contacts are closed in the "On" position. In the "Reset" position a third contact must close and one of the contacts in the "on" position must open. This contact closure sequence is shown by the following truth table:

Contact Number	Off (2)	On (0)	Reset (1)
1	O	X	X
2	O	X	O
3	O	O	X

Referring to the Contact Closure Sequence Table, it is seen that cam Type 3 provides these sequences. In addition, the contact block models that should be used are given; model VA0 (or FA0 for contact No. 1, to be installed in the upper contact block location; model V40 (or F40) for contact No. 2, to be installed in the lower contact block location; and model V50 (or F50) for contact No. 3, which may be used in either the upper or lower contact block location, behind one of the other two blocks. Reference to the operator model listings shows that model RM272 provides cam Type 3 and has desired momentary action and key removability.

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Joystick, 22mm



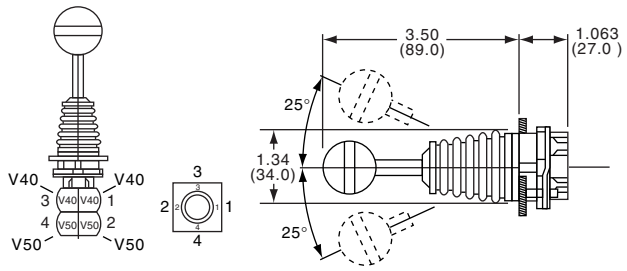
M25310

5 POSITION JOYSTICK (4 Action + Center-Off)

Metal Bushing
Maintained or momentary models, inherent design requires use of N.O. and N.C. contact blocks. Supplied with legend plate, and black knob. Contact blocks not supplied, order separately.
(See page I8.)

Tyco Electronics	Alcoswitch	Description					
1437609-2	M25310	Momentary, 3 Position	—	(ON)	OFF	(ON)	—
1437609-3	M25500	Maintained, 5 Position	ON	ON	OFF	ON	ON
1437609-4	M25510	Momentary, 5 Position	(ON)	(ON)	OFF	(ON)	(ON)
				(ON) indicates momentary position			

Note: All positions are mutually exclusive and action must pass through neutral for all changes of operator level.



CONTACT ARRANGEMENT

Contact blocks should be placed as shown. All contacts are held open in neutral position. Each numbered contact closed when activated. M25310 operators require one N.O. and one N.C. contact block, and M25500 and M25510 require two N.O. and two N.C. blocks.

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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, 30mm, Round or Mushroom Buttons

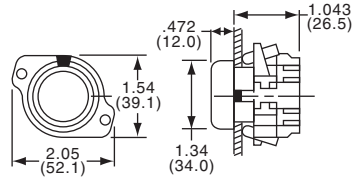
FLUSH GUARD MOMENTARY

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Model	Special Details
M6010(*)	Momentary

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.




M6010(*)

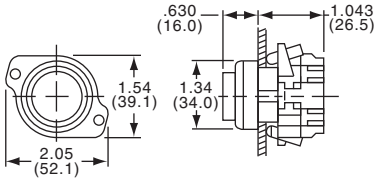
EXTENDED BUTTON MOMENTARY

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Model	Special Details
M6020(*)	Momentary

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.




M6020(*)

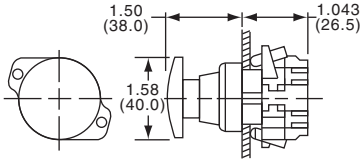
MUSHROOM HEAD MOMENTARY PUSH MAINTAINED

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Tyco Electronics	Alcoswitch	Special Details	Color
—	M6057(*)	Momentary	(*)
1437610-6	M60532	Push-Pull	Red
1-1437610-3	M60652	Push-Lock/Twist To Release	Red

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.



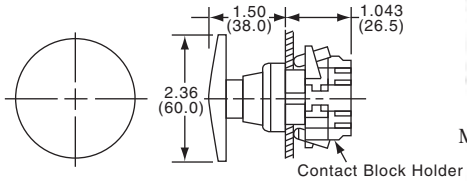

M6057(*)

LARGE MUSHROOM HEAD MOMENTARY PUSH

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Tyco Electronics	Alcoswitch	Special Details	Color
1-1437610-2	M60582	Momentary	Red



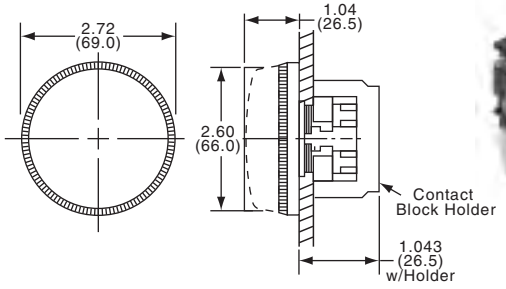

M60582

LARGE GUARDED MUSHROOM HEAD MOMENTARY PUSH

Metal Bushing. Heavy duty metal bushing and guard.
Contact blocks not supplied, order separately. (See page I8.)

Model	Special Details
M6080(*)	Momentary

(*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green.




M6080(*)

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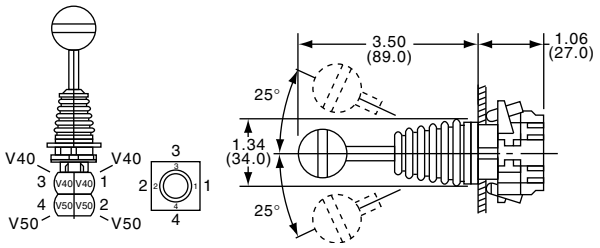
Dimensions are shown for reference purposes only. Specifications subject to change.

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UK: 44-141-810-8967

Selector Switches or Joysticks, 30mm



M65510



5-POSITION JOYSTICK (4 Active & Center-Off)

Metal Bushing
Maintained or momentary model with or without mechanical latch. Inherent design requires use of N.O. and N.C. Contact blocks not supplied, order separately. (See page I8.) Supplied with legend plate (1-2-3-4), black knob.

CONTACT ARRANGEMENT
Contact blocks should be placed as shown. All contacts are held open in neutral position. Each number contact closed when activated. Model M65310 has only two active positions, requires one N.O. and one N.C. contact block.

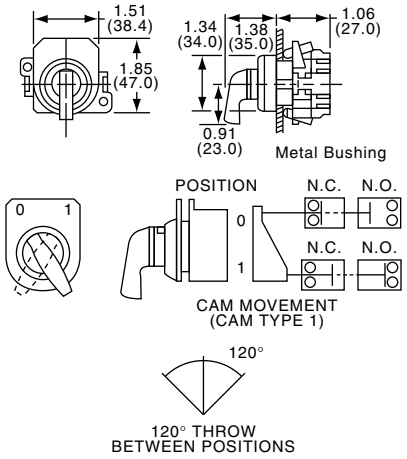
Note: All positions are mutually exclusive and action must pass through neutral for all changes of operator level.

Tyco Electronics	Alcoswitch	Action					
3-1437610-5	M65310	Momentary, No Latch		(On)	Off	(On)	
—	M65500	Maintained, No Latch	On	On	Off	On	On
3-1437610-6	M65510	Momentary, No Latch	(On)	(On)	Off	(On)	(On)
3-1437610-7	M65810	Momentary w/Latch	(On)	(On)	Off	(On)	(On)

(On) indicates momentary position.



M6402(*)



2-POSITION SELECTOR MAINTAINED

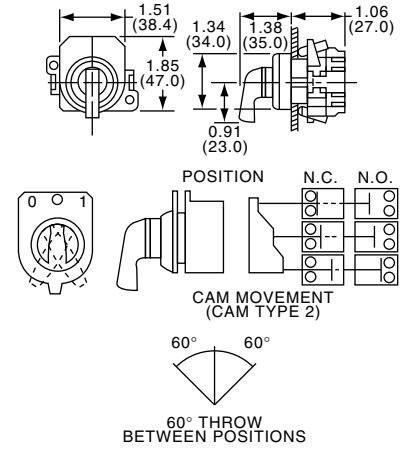
Metal Bushing
Contact blocks not supplied, order separately. (See page I8.) Legend plant included.

Model	Action	Lever	Position Number
M6402(*)	Maintained	Long	0 1

(*) Specify color by adding suffix number: (0) Black, (2) Red.



M6412(*)



3-POSITION SELECTOR MAINTAINED OR MOMENTARY

Metal Bushing
Contact blocks not supplied, order separately. (See page I8.) Legend plate included.

Model	Action	Lever	Cam	Position Number
M6410(*)	Maintained	Long	2	2 0 1
M6412(*)	Maintained	Long	3	2 0 1
M6470(*)	Mom. 1 Side	Long	2	2 0 ◄ 1
M6480(*)	Mom. 2 Sides	Long	2	2 ► 0 ◄ 1
	Indicates momentary return position			

(*) Specify color by adding suffix number: (0) Black, (2) Red.

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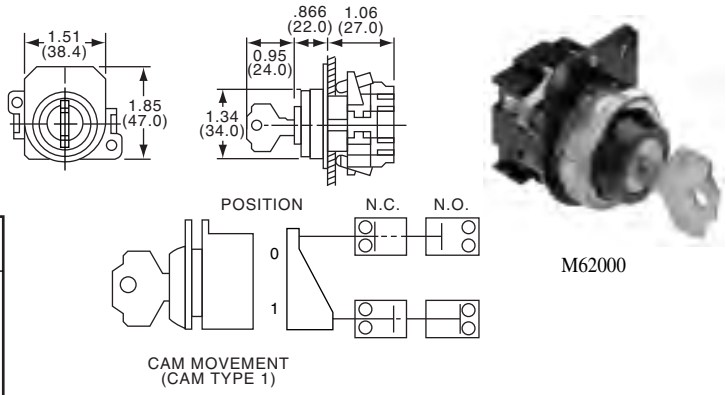
Keylock or Pushbutton Switches, 30mm

2 POSITION KEY SELECTOR MAINTAINED OR MOMENTARY

Metal Bushing
Supplied with two keys and legend plate.
Contact blocks not supplied, order separately.
(See page I8)

Tyco Electronics	Alcoswitch	Action	Cam	Position Number	Throw	Remove Key
2-1437610-2	M6200	Maintained	1	0 1	60°	
2-1437610-3	M6201	Maintained	1	0 1	60°	
2-1437610-6	M6250	Momentary	1	0◄1	60°	
1437617-1	G001	Additional Keys				

◄ Indicates momentary return position



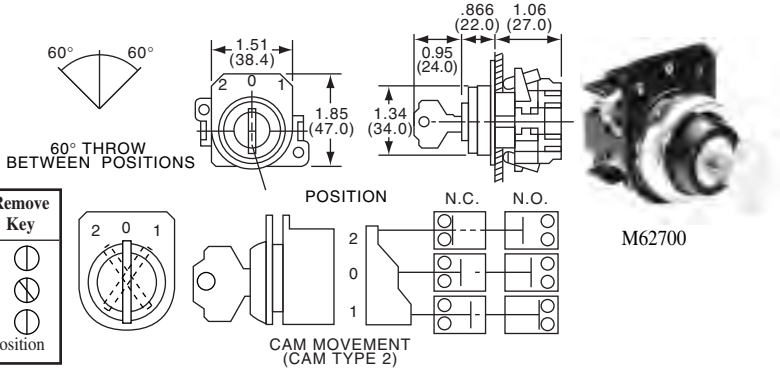
M62000

3 POSITION KEY SELECTOR MAINTAINED OR MOMENTARY

Metal Bushing
Supplied with two keys and legend plate.
Contact blocks not supplied, order separately.
(See page I8.)

Tyco Electronics	Alcoswitch	Action	Cam	Position Number	Remove Key
2-1437610-5	M6210	Maintained	2	2 0 1	
2-1437610-7	M6270	Mom. 1 Side	2	2 0◄1	
2-1437610-8	M6280	Mom. 2 Sides	2	2►0◄1	
1437617-1	G001	Additional Keys			

◄ Indicates momentary return position



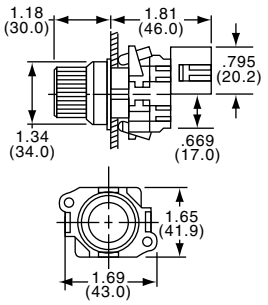
M62700

ILLUMINATED EXTENDED BUTTON MOMENTARY

Metal Bushing
Lamp not supplied, order separately. (See page I15.) Uses T31/4 miniature bayonet base lamps. Lamp circuit is isolated. Contact blocks not supplied, order separately. (See page I8)

Model	Special Details
M6120(*)406	Momentary

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (9) White.





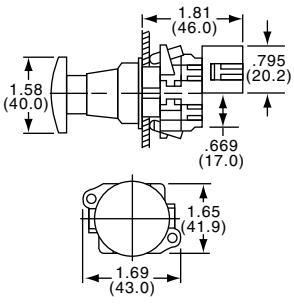
M6120(*)406

ILLUMINATED MUSHROOM MAINTAINED OR MOMENTARY

Metal Bushing
Lamp not supplied, order separately. (See page I15.)
Uses miniature bayonet base lamps. Lamp circuit is isolated.
Contact block not supplied, order separately. (See page I8.)

Model	Special Details
M6150(*)406	Momentary
M6153(*)406	Maintained, Push-Pull

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (9) White.





M6150(*)406

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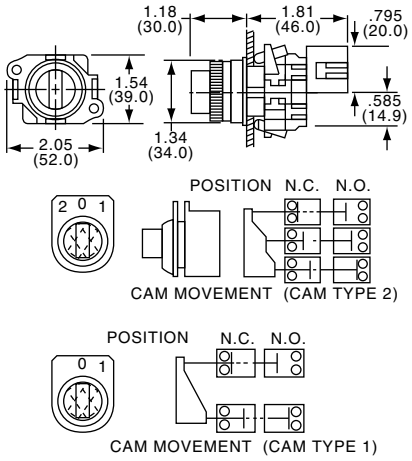
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UK: 44-141-810-8967

Selector Switches, 30mm, Illuminated



M6650(*)06



ILLUMINATED MAINTAINED SELECTOR

Metal Bushing
Lamp not supplied, order separately. (See page I15.)
G31/2 lamps. Lamp circuit is isolated. Contact blocks not supplied, order separately. (See page I8.)

Model	Number Position	Action	Position Number
M6653(*)406	3	Maintained	2 0 1
M6650(*)406	2	Maintained	0 1

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green.

Model	Action	2-Position Operator		3-Position Operator		
		O	1	1	O	2
V40 or F40	N.C.	X	O	X	O	O
V50 or F50	N.O.	O	X	O	O	X
VA0 or FA0	N.O. Early Make	O	X	O	X	X
VR0 or FR0	N.C. Break	X	O	X	X	0

O=Open
X = Closed

KEY TO SELECTION OF CONTACT BLOCKS
Contact closure variations depend on the contact block models chosen. For these operators listed use this table for guidance in selecting blocks.

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UK: 44-141-810-8967

Lamps/Transformers

LAMPS

The lamps with G31/2 bulbs fit all Reliant 22, Series 6000 illuminated operators and pilot lights. Lamps with T31/4 Bayonet Base fit all Reliant 22 and Series 6000 illuminated models (except QM120, QM122, and M6650, and M6655).

Tyco Electronics	Alcoswitch	Bulb	Rated Volts	Design Amps	MSCP	Average Rated Hours
1-1437620-5	755	T31/4	6.3	.15	.33	20,000
1-1437620-6	757	T31/4	28	.08	.62	7,500

*Not recommended for use with green or blue lenses.



755



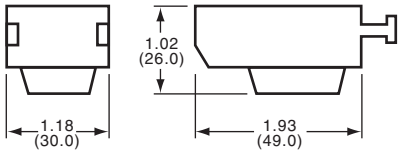
NE51HR

Application Note: For additional specifications, see page K10

STEP-DOWN TRANSFORMERS
AC LINE TO 6V/6.3V

Snap mount on lighted operators and QM600, T6632 and RM600 pilot lights. Spade tipped leads connect to lamp terminals on operator. Screw terminals on primary. Use 6-6.3V lamps. 0-9 to 1.35 watts. Secondary winding is energy-limited.

Tyco Electronics	Alcoswitch	Primary Voltage
1437612-8	5B0	110-120 VAC
1437612-7	570	220-240 VAC





U.L. Recognized

5B0

Panel Layouts

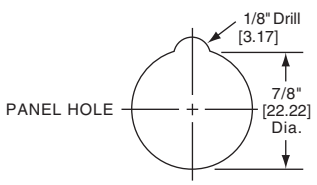
RELIANT'22 MINIATURE MODELS

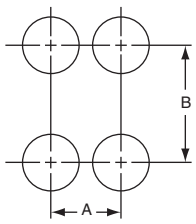
Recommended hole mounting dimensions*

Minimum Center-To-Center Spacing
Inches/(mm)

Operator Type	A	B
Pushbuttons, Pilots	1.19/30.2	1.66/42.2
Mushroom, Selector	1.50/37.8	1.66/42.2
Others	1.94/49.3	1.94/49.3

*Check dimensions for layouts using legend plates.





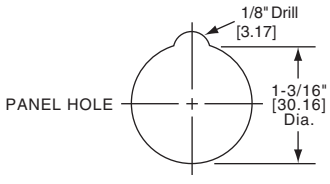
SERIES 6000 STANDARD MODELS

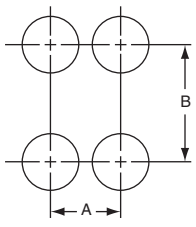
Recommended hole mounting dimensions*

Minimum Center-To-Center Spacing
Inches/(mm)

Operator Type	A	B
Pushbuttons, Pilots	1.88/47.8	1.97/50.0
Mushroom, Selector	2.25/57.2	2.25/57.2
Large Mushroom	3.00/76.2	3.00/76.2

*Check dimensions for layouts using legend plates.





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UK: 44-141-810-8967

Pushbutton Switches, 16mm, Illuminated

FEATURES:

Command Series Illuminated Pushbuttons are instrument-grade switches having snap-acting double break contacts, silver clad and gold plated to satisfy the requirements of logic level and power switching. **Contacts are electrically independent of one another and are isolated from the lamp circuit.** Tactile feel is excellent and maintained models have latching feature for visible indication of status. Uses T1-3/4 midget flanged base lamp, relampable from front of panel. Legends may be provided using printed transparent tape affixed to inner button. UL Recognized, File E-51302, CSA LR-20479

Note: Recommended panel thickness 4mm max.

MATERIAL SPECIFICATIONS:

Contacts .....Gold plate over silver clad

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC or Peak AC
5 A @ 250 VAC or 24 VDC (Resistive)
Initial Contact Resistance.....20 Milliohms max.
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1,500 VAC
Life Expectancy .....100,000 Operations @ rated current

ENVIRONMENTAL SPECIFICATIONS:

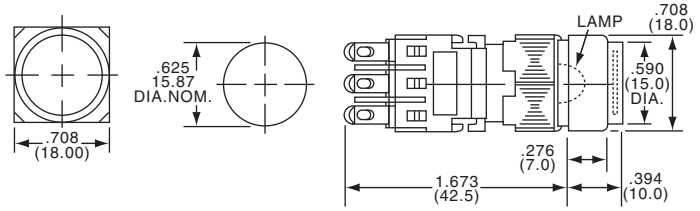
Operating Temperature.....-4°F to +122°F (-20°C to +50°C)
Oiltight .....IP65, NEMA 1, 12 & 13
Non-oiltight.....IP40

ROUND

Lens set and lamps not supplied.



164EL11



Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
1437569-2	164EL11	4-1437569-2	165EL11	1 N.O. & N.C.	Momentary
1437569-3	164EL22	4-1437569-3	165EL22	2 N.O. & N.C.	Momentary
—	164EL33	—	165EL33	3 N.O. & N.C.	Momentary
1437569-5	164EL511	4-1437569-4	165EL511	1 N.O. & N.C.	Push on/Push off
1437569-6	164EL522	4-1437569-5	165EL522	2 N.O. & N.C.	Push on/Push off
1437569-7	164EL533	—	165EL533	3 N.O. & N.C.	Push on/Push off

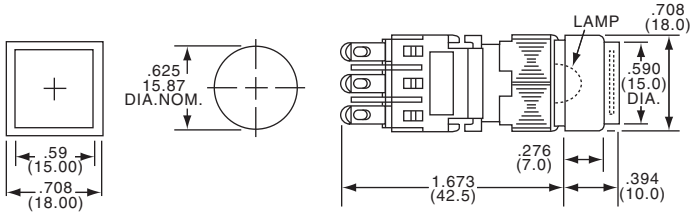
Application Note: For lens sets, accessories and lamps, see page I18 to I20

SQUARE

Lens set and lamps not supplied.



164SL11



Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
2-1437569-5	164SL11	4-1437569-9	165SL11	1 N.O. & N.C.	Momentary
2-1437569-6	164SL22	5-1437569-0	165SL22	2 N.O. & N.C.	Momentary
2-1437569-7	164SL33	—	165SL33	3 N.O. & N.C.	Momentary
2-1437569-9	164SL511	5-1437569-1	165SL511	1 N.O. & N.C.	Push on/Push off
3-1437569-0	164SL522	5-1437569-2	165SL522	2 N.O. & N.C.	Push on/Push off
3-1437569-1	164SL533	—	165SL533	3 N.O. & N.C.	Push on/Push off

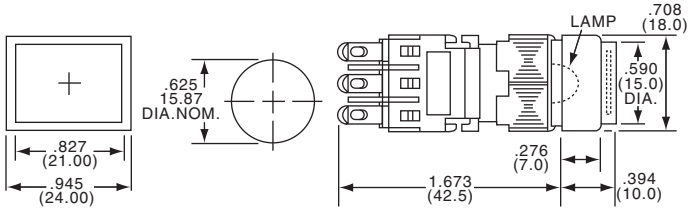
Application Note: For lens sets, accessories and lamps, see page I18 to I20

RECTANGULAR

Lens set and lamps not supplied.



164TL11



Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
3-1437569-4	164TL11	5-1437569-4	165TL11	1 N.O. & N.C.	Momentary
3-1437569-5	164TL22	5-1437569-5	165TL22	2 N.O. & N.C.	Momentary
3-1437569-6	164TL33	—	165TL33	3 N.O. & N.C.	Momentary
3-1437569-8	164TL511	5-1437569-6	165TL511	1 N.O. & N.C.	Push on/Push off
3-1437569-9	164TL522	5-1437569-7	165TL522	2 N.O. & N.C.	Push on/Push off
4-1437569-0	164TL533	5-1437569-8	165TL533	3 N.O. & N.C.	Push on/Push off

Application Note: For lens sets, accessories and lamps, see page I18 to I20

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UK: 44-141-810-8967

Selector or Keylock Switches, 16mm

FEATURES:

Command Series Selector & Keylock Switches are 2 & 3-position rotary types with snap-acting double break contacts. All models have 90° throw. Contacts are silver-clad and gold-plated to provide reliable operation at logic levels as well as for power switching applications. Contacts are electrically isolated from one another. Keylock types are supplied with two keys. Oiltight models meet NEMA 1, 12 & 13 requirements.

UL Recognized File E-51302

CSA LR-20479

MATERIAL SPECIFICATIONS:

Contacts .....Gold plate over silver clad

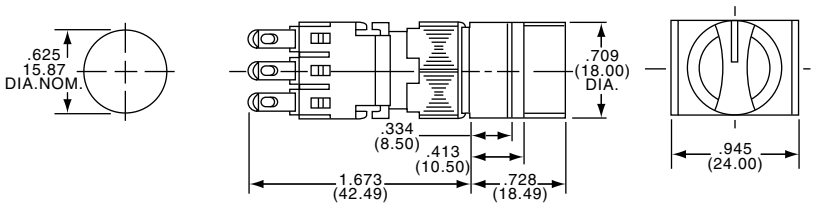
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC or Peak AC
5 A @ 250 VAC or 24 VDC (Resistive)
Initial Contact Resistance.....20 Milliohms max.
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1,500 VAC
Life Expectancy .....100,000 Operations at rated current

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)

SELECTORS

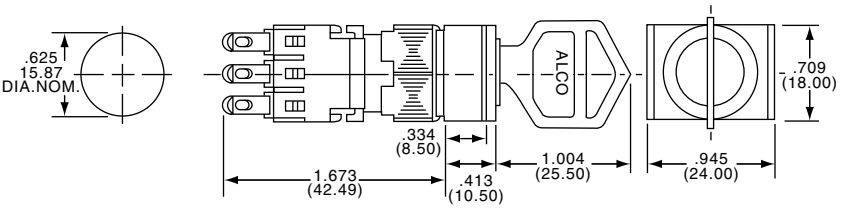




164P2B11

Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
2-1437569-0	164P2B11	4-1437569-8	165P2B11	1N.0. & N.C.	2 Pos. Maintained
2-1437569-1	164P2B22	—	165P2B22	2N.0. & N..C.	2 Pos. Maintained
—	164P2B33	—	165P2B33	3N.0. & N.C.	2 Pos. Maintained
1-1437569-9	164P0B22			2N.0. & N.C.	2 Pos. Momentary Right
—	164P0B33			3N.0. & N.C.	2 Pos. Momentary Right
2-1437569-2	164P3B22	—	165P3B22	2N.O. & N.C.	3 Pos. Center Off/Maintained
2-1437569-3	164P3B33	—	165P3B33	3N.O. & N.C.	3 Pos. Center Off

KEYLOCKS





164J2A11

2 Position Keylocks

Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
1-1437569-1	164J2A11	4-1437569-7	165J2A11	1N.O. & N.C.	Maintained, key pull left
1-1437569-2	164J2A22	—	165J2A22	2N.O. & N.C.	Maintained, key pull left
—	164J2A33	—	165J2A33	3N.O. & N.C.	Maintained, key pull left
1-1437569-3	164J2B11	—	165J2B11	1N.O. & N.C.	Maintained, key pull both
1-1437569-4	164J2B22	—	165J2B22	2N.O. & N.C.	Maintained, key pull both
—	164J2B33	—	165J2B33	3N.O. & N.C.	Maintained, key pull both
1437569-9	164J0A11			1N.O. & N.C.	Momentary right, key pull left
1-1437569-0	164J0A22			2N.O. & N.C.	Momentary right, key pull left
—	164J0A33			3N.O. & N.C.	Momentary right, key pull left

3 Position Keylocks

Non-Oiltight		Oiltight			
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Contact	Action
—	164J3A22	—	165J3A22	2N.O. & N.C.	Maintained, key pull left
1-1437569-5	164J3A33	—	165J3A33	3N.O. & N.C.	Maintained, key pull left
—	164J3E22	—	165J3E22	2N.O. & N.C.	Maintained, key pull center
—	164J3E33	—	165J3E33	3N.O. & N.C.	Maintained, key pull center
1-1437569-6	164J3C22	—	165J3C22	2N.O. & N.C.	Maintained, key pull all
—	164J3C33	—	165J3C33	3N.O. & N.C.	Maintained, key pull all
—	164J7A22	—	165J7A22	2N.O. & N.C.	Momentary right, key pull left
1-1437569-8	164KA	—	—	—	Spare Keys

I

Command Series

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pilot Light Indicators or Lens Sets, 16mm

FEATURES

Command Series Pilot Light Indicators match the appearance of both lighted and unlighted Command Series pushbuttons. The same lens buttons are snapped into place and legends may be easily inserted. Illumination is from T - 1 3/4 midget flange based lamps, which are installed from the front panel. Lenses and lamps are ordered separately. Oiltight models meet NEMA 1, 12 & 13 requirements. UL File No. E-51302
CSA LR-20479

TYPICAL PERFORMANCE CHARACTERISTICS:

LAMP DISSIPATION 1.2W MAX.
Insulation Resistance .....100 Megohms min.
Dielectric Strength .....1,500 VAC

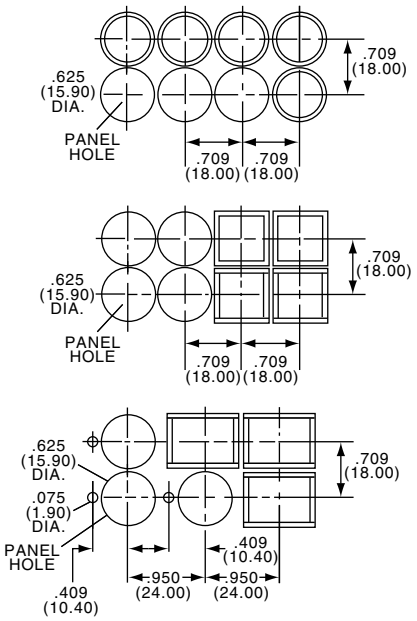
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +122°F (-20°C to +50°C)

PILOT LIGHT INDICATORS



164EZ



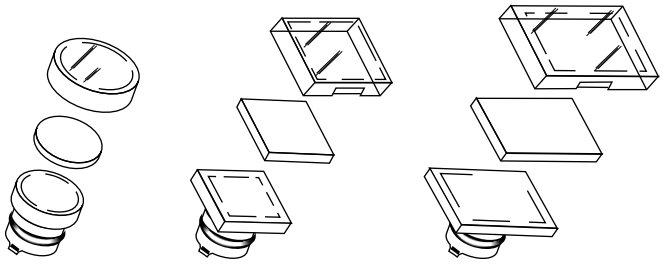
Non-Oiltight		Oiltight		
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Description
1437569-8	164EZ	—	165EZ	Round
3-1437569-2	164SZ	—	165SZ	Square
4-1437569-1	164TZ	—	165TZ	Rectangular

Lens set and lamp not supplied, order separately, see below.
U.L. Recognized E-51302

LENS SET



64E



64E 64S 64T

Model	Description
64E(*)	Round lens set
64S(*)	Square lens set
64T(*)	Rectangular lens set
All fit oiltight and non-oiltight indicators.	
(*) Specify color by adding suffix number: (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White/Clear.	

Application Note:
Lens sets include, button, diffuser and cap.

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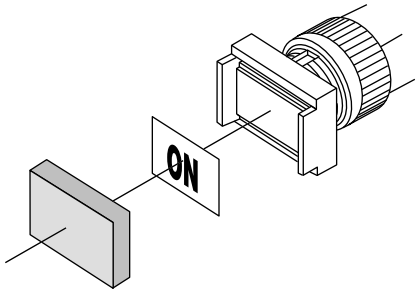
Accessories and Tools, 16mm

FEATURES:

Standard Legends on Transparent Adhesive Tape are available for Illuminated Command Series switches and pilot lights. Legends are easily affixed to the translucent white button and are protected by the lens cap. The black lettering is back-lit by the lamp and the inscription is visible through the lens cap. This method of providing legends is also suitable in some applications using non-illuminated white (clear), yellow or orange lens caps.

Standard legends, listed below, are intended to be used with round, square or rectangular pushbuttons and pilot lights. Sold only in sheets of 10 identical legends.

LEGEND MODEL NUMBERS



Tyco Electronics	Alcoswitch	
6-1437569-3	616	On
6-1437569-2	616	Off

Note: Model numbers must include complete legend nomenclature.

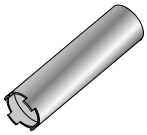


Legend (film)

Accessories

MOUNTING WRENCH

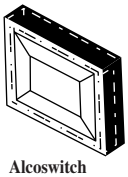
Sturdy tubular brass wrench fits mounting nuts on all Command Series switches.



Tyco Electronics	Alcoswitch
6-1437569-0	601-AG

SPLASH PROOF SEAL

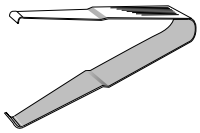
Flexible clear seal fits all rectangular pushbuttons and pilot lights.



Tyco Electronics	Alcoswitch
9-1437569-2	668

LENS REMOVER

Dual purpose metal tool facilitates removal of lenses, buttons.

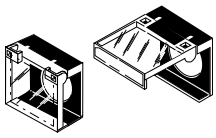


Tyco Electronics	Alcoswitch
6-1437569-9	618-AG

FLIP COVER SWITCH GUARD

669 used with rectangular series pushbutton switches.
671 used with square and round series pushbutton switches.

Tyco Electronics	Alcoswitch	
9-1437569-4	669	Rectangular
9-1437569-3	671-AG	Square and Round



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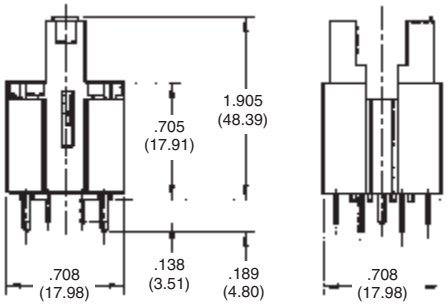
USA: 1-800-522-6752
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South America: 55-11-3611-1514
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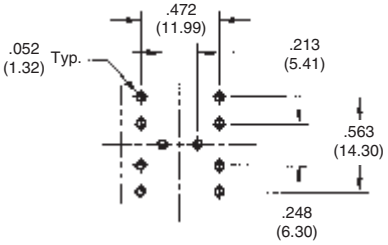
Socket for 16mm Command Series Switches

697-PL

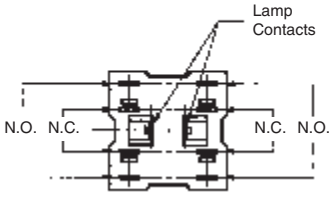


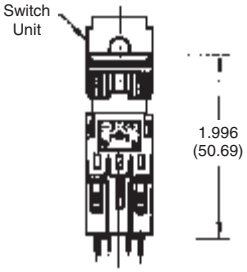
9-1437569-5





Recommended PCB Footprint





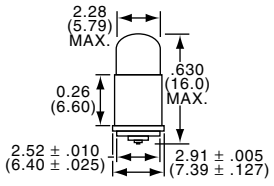
T1 3/4 Series Midget Incandescent Lamps

Average Life ratings indicate the lamp life obtained in controlled laboratory conditions while operating lamps at the design voltage (AC) (DC will shorten life by 50%). The life of a subminiature lamp is inversely proportional to the 12th power of the applied voltage.

ALCOSWITCH subminiature lamps are a "T" class, meaning that the envelopes are made of glass tubing, the "T" number indicating the diameter of the tubing in eights of an inch.

Tyco Electronics	Alcoswitch	Rated Volts	Design Amps	Rated MSCP	Average Rated Hours
9-1437620-6	7333	5.0	.060	.05	40,000
1-1437620-8	815-AG	—	.115	.147	40,000
1437620-7	381-AG	6.3	.20	.40	50,000
1437620-8	382-AG	14.0	.08	.30	50,000
1437620-9	385	28.0	.04	.20	50,000
1-1437620-1	387	28.0	.04	.30	25,000
1437620-5	327-AG	28.0	.04	.34	7,000

FLANGE BASE- T1 3/4





Catalog 1308390
Issued 9-04

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SH6 Series - Page J3



PICOD Series - Page J4

Pushwheel

Catalog 1308390
Issued 9-04

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Pushwheel Switches Part Number Index

B11LS J9,J10
B12L J11
B12LS J11
B5L J7
B5LS J7,J8
B9L J9,J10
B9LS J9,J10
B9LS5PIN.....J9
DPS J6
DPS10 .....J5,J11
DPS10111AK J11
DPS10131AK J11
DPS10131ALD.....J11
DPS10137AK J11
DPS10141AK J11
DPS10301AK J11
DPS10L.....J11
DPS8 .....J5,J10
DPS8111AK J10
DPS8131AK J10
DPS8131AKLS.....J10
DPS8131AKULS J10
DPS8131ALD J10
DPS8137AK J10
DPS8137AKLS.....J10
DPS8137AKU J10
DPS8137AKULS J10
DPS8301AK J10
DPS8301AKULS J10
DPS8A J10
DPS8L J10
DPS8P J10
DPS8PW J10
DPS9 .....J5,J11
DPS910A J11
DPS910P J11
DPS9111AK J11
DPS9131AK J11
DPS9131AL J11
DPS9131ALD J11
DPS9137AK J11
DPS9301AK J11
DPS9307AK J11
DPS9L J11
PICOA J7
PICOADP J7
PICOBG J7
PICOD J4,J6,J8
PICOD111AL J7
PICOD131AK J7
PICOD131ALD J7
PICOD131ALULS J7,J8
PICOD137AK J7
PICOD137ALULS J7,J8
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PICOP J7
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SH6131AK J6
SH6131AKK2 .....J6
SMCA J9
SMCADP J9
SMCD J4,J6,J8
SMCD111AK J9
SMCD131AK J9
SMCD131AKLS J9
SMCD131ALD J9
SMCD137AK J9
SMCD301AK J9
SMCL J9
SMCPK J9
SP1.2 .....J9, J10
SP1.5 .....J11

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Order Description and Code Tables (Wiring Diagram)

DPS10 - 131 - AK

Series/types	Codes	Connections
SH6	111 = Decimal	AK = pcb short
PICOD	131 = BCD	AL = pcb long
SMCD	137 = BCD Complement	LS = solder pin
DPS8	141 = BCD + Complement	AL/D = pcb long, interrupted
DPS9	301 = Hexadecimal	AKU = pcb long downward
DPS10	307 = Hexa. Complement	ALU = pcb long downward
	400 = Switch-over	

FACTORY ASSEMBLED GROUP

Special type numbers will be assigned for customers requiring delivery of assembled groups of code switches. These will be pre-tested, identified and individually packaged. Consult factory for details.

CUSTOM SWITCHES

Contact factory for information concerning the feasibility, pricing and delivery of special switches, including non-standard codes, limit stopping, special markings, PC terminals and optional colors.

Code tables (wiring diagram)

Code 131

BCD

	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●		●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

Code 137

BCD Complement

	C	$\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	

Code 141

BCD + Compl.

	C	1	2	4	8	$\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0	●					●	●	●	●
1	●	●					●	●	●
2	●		●			●		●	●
3	●	●	●					●	●
4	●			●		●	●		●
5	●	●		●			●		●
6	●		●	●		●			●
7	●	●	●	●					●
8	●				●	●	●	●	
9	●	●			●		●	●	

Code 400

change-over switch

	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

Code 301

Hexadecimal

	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●		●	●
B	●	●		●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●

Code 307

Hexadecimal Compl.

	C	$\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	
A	●	●		●	
B	●			●	
C	●	●	●		
D	●		●		
E	●	●			
F	●				

Code 111

Decimal

	C	0	1	2	3	4	5	6	7	8	9
0	●	●									
1	●		●								
2	●			●							
3	●				●						
4	●					●					
5	●						●				
6	●							●			
7	●								●		
8	●									●	
9	●										●

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Specifications

Series/Types Catalog Page			SH6 J6	PICOD J7-8	SMC-D J9
Dimensions/type of mounting					
panel / height x width			15x6 mm	15x7.62 mm	24x7.62mm
installed depth width PCB, short/long			23.5/30.8 mm	24/34.5 mm	32/42mm
insertion from the front			x	x	x
insertion from the rear			x		
Codes					
Code	switching position	printing			
111 decimal	10	0-9		x	x
131 BCD	10	0-9	x	x	x
137 BCD complement	10	0-9	x	x	x
141 BCD + complement	10	0-9			x
301 hexadecimal	16	0-9-A-F (0-15)		x	x
307 hexadecimal compl.	16	0-9-A-F (0-15)			
400 change-over switch	10	+,-,+,-, etc.		x	
Electrical data					
operating voltage max.			40V	40V	40V
contact load, static max.			0.5A	0.5A	1A
contact load, dynamic (resistive) max.			100mA	100mA	100mA
contact resistance type AK (measured from the supply line to the output)			< 100 mOhm	< 100 mOhm	< 100 mOhm
Technical data					
permissible ambient temperature			-20…+80°C	-20…+60°C	-20…+80°C
expected life (switching cycles)			> 10^5	> 10^5	> 10^6
actuating force approx.			4 N	3 N	4 N
weight approx.			1.5 g	2 g	4 g
digit height 10-/16-digit			3.1mm	3.1/2.4mm	4.9/3.4mm
click action (working point)			x	x	x
vibration DIN EN 60068-2-6			x	x	x
shock DIN EN 60068-2-27			x	x	x
Material					
housing: PPO UL94V-0			x	x	x
pc board: base material FR 4 respectively CEM3 DIN IEC 249-2, contact surface Au over Ni on Cu			x	x	x
Connections					
AK: short			x	x	x
AL: long			x	x	x
LS: solder point			x	x	x
AL/D: long/interrupted				x	
ALU: long downward				x	x

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Specifications

Series/Types Catalog Page			DPS8 J10	DPS9 J11	DPS10 J11
Dimensions/type of mounting					
panel / height x width			18x8mm	33x8mm	33x10mm
installed depth width PCB, short/long			32/41mm	39/50mm	39/50mm
insertion from the front			x	x	
insertion from the rear				x	
Codes					
Code	switching position	printing			
111 decimal	10	0-9	x	x	x
131 BCD	10	0-9	x	x	x
137 BCD complement	10	0-9	x	x	x
141 BCD + complement	10	0-9	x		
301 hexadecimal	16	0-9-A-F (0-15)	x	x	x
307 hexadecimal compl.	16	0-9-A-F (0-15)			
400 change-over switch	10	+,-,+,-, etc.			
Electrical data					
operating voltage max.			40V	40V	40V
contact load, static max.			1A	1A	1A
contact load, dynamic (resistive) max.			100mA	100mA	100mA
contact resistance type AK (measured from the supply line to the output)			< 100 mOhm	< 100 mOhm	< 100 mOhm
Technical data					
permissible ambient temperature			-20…+80°C	-20…+80°C	-20…+80°C
expected life (switching cycles)			> 10^6	> 10^6	> 10^6
actuating force approx.			4 N	4 N	4 N
weight approx.			4 g	6.5 g	7.5 g
digit height 10-/16-digit			4.9/3.4mm	6.8/4.3mm	7.0/4.3mm
click action (working point)			x	x	x
vibration DIN EN 60068-2-6			x	x	x
shock DIN EN 60068-2-27			x	x	x
Material					
housing: PPO UL94V-0			x	x	x
pc board: base material FR 4 respectively CEM3 DIN IEC 249-2, contact surface Au over Ni on Cu			x	x	x
Connections					
AK: short			x	x	x
AL: long			x	x	x
LS: solder point			x	x	x
AKU: short downward					x
ALU: long downward			x		

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Pushwheel Switches, Subminiature, Panel Mount, Dual Button

SH6 Series pushwheel switches are the smallest panel mounted dual pushbutton code switches available. They have a snap-action detent with an audible click. The dual-purpose finger terminals may be used for direct mounting on printed circuit boards, or wire may be soldered directly to the gold-plated conductors. The SH6 is designed for several means of panel mounting: groups of any number of switches may be snapped into panel holes of proper size and retained by the integral clips (front mounting), or groups may be held in place in a panel hole by being supported from rear when the switches are PC mounted. These reliable switches are made to the same exacting requirements as the SMCD, PICOD and DPS Series.

MATERIAL SPECIFICATIONS

Moving Contacts.....Gold-clad Ni over copper alloy
Fixed Contacts .....AU over Ni
PC Board.....FR4 Glass Epoxy
Molded Parts.....Noryl-SE1, black matte finish
Window.....Thermoplastic resin

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....0.4 VA @ 20 VDC (max.)
Contact Circuit Resistance .....0.12 ohm max.

PERFORMANCE CHARACTERISTICS

Operating Force .....Approx. 11 oz.
PC Terminal Spacing .....0.100"
Character Height/Color.....0.118" White
Life Expectancy .....More than 10^5 operations
Operating Temperature .....-20°C to +80°C

SH6 SERIES



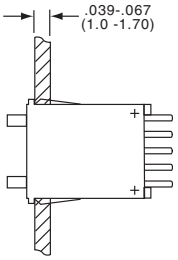
SH6131AK

SH6 - 131 - AK

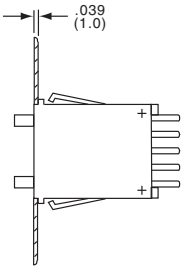
Codes	Connections
131 = BCD	AK = pcb short
137 = BCD Complement	AL = pcb long
	LS = solder pin

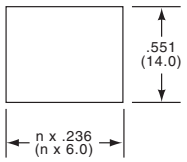
See Code Tables on Page J3

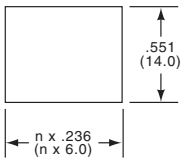
FRONT MOUNTING
(See note below)



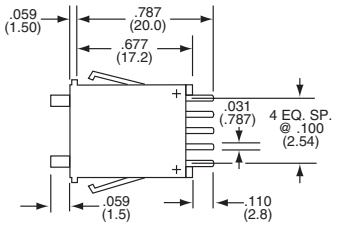
REAR MOUNTING

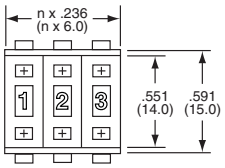


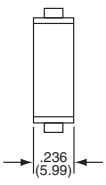


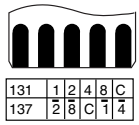


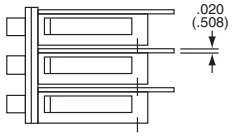
n = Number of switches

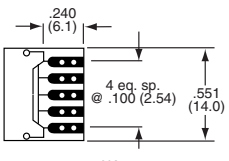




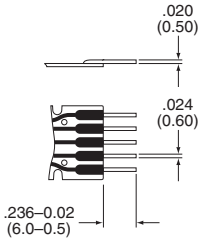




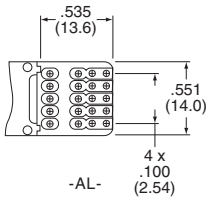




-AK-



-LS-



-AL-

Note: Remove locating lugs from side of last switch to enable mounting from the front panel.

Note: Use Card Edge Connector B5LS or B5L with AK type.

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Pushwheel Switches, Subminiature, Panel Mount, Dual Button

The PICOD family offers small panel-mounted pushwheel code switches, ideally suited for high density applications. They are used for the controlling and programming of frequency synthesizers, counters and timers, data comparators, security encoders, weighing machines, etc. The dependable pushbutton action allows narrow 0.3 inch width on panel. Changes to higher or lower settings are accomplished rapidly by successive operation of the appropriate buttons. The featherweight PICOD is less than 0.6 inch high, yet rugged enough for hand-held and portable instruments that may be subjected to field abuse. Heavy gold plating on wiping contacts affords low contact resistance for reliable operation over long periods of service. Easy-to-read characters are viewed through dust-sealed window. Installation costs are minimized by snap-together design – no inconvenient hardware.

MATERIAL SPECIFICATIONS:

Fixed Contacts .....1 microns AU over Ni over Cu
Moving Contacts.....Gold-clad Ni over copper alloy
PC Board.....FR4 Glass epoxy
Molded Parts.....Noryl-SE1, Black matte finish
Window.....Thermoplastic resin

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC max.
Contact Circuit Resistance .....0.15 Ohm max.
Operating Force .....Approx. 11 oz.
PC Terminal Spacing .....0.100"
Character Height/Color.....122" White (.094" for hex codes)
Life Expectancy .....More than 10^5 operations
Operating temperature .....-10° C to + 60° C

PICOD - 131 - AK

Codes	Connections
111 = Decimal	AK = pcb short
131 = BCD	AL = pcb long
137 = BCD Complement	LS = solder pin
301 = Hexadecimal	AL/D = pcb long, interrupted
307 = Hexa. Complement	ALU = pcb long downward
400 = Switch-over	

See Code Tables on Page J3


PICOD111AL

ACCESSORIES

Front Mount Snap Detent	Description	Wheel Marks
PICOA	Spacer, 0.1" wide	
PICOADP	Spacer, 0.1" wide, with decimal point	
PICOBG	Spacer, 0.3" wide (same size as switch)	
PICOP	End-plate pair	
B5LS	5 pin connector with PC pins for AK types	
B5L	5 pin connector with wire lug termination for AK types	

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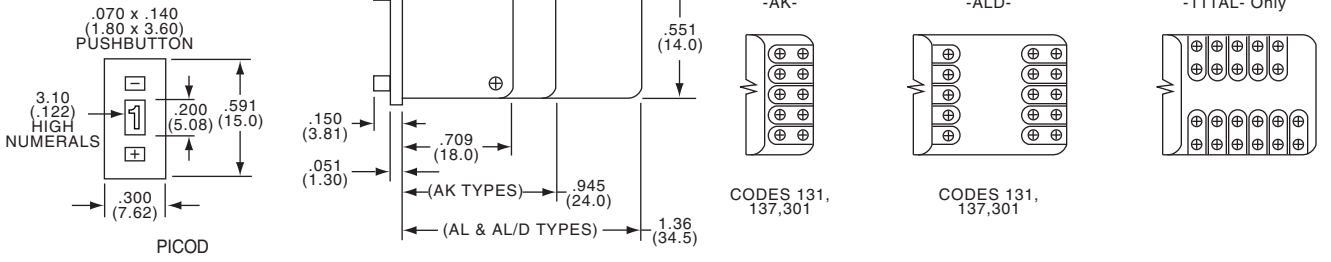
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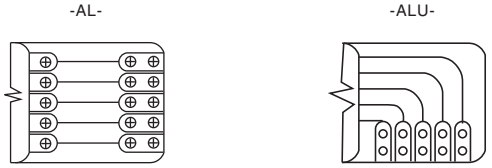
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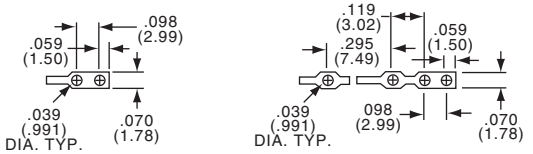
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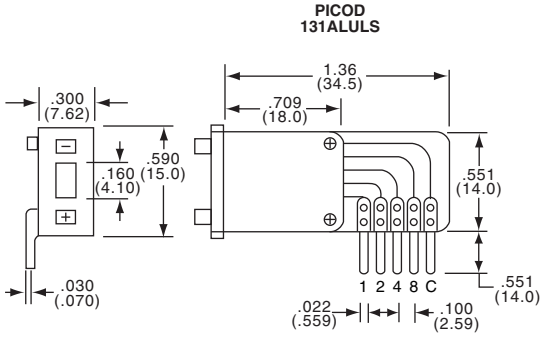
Pushwheel Switches, Options

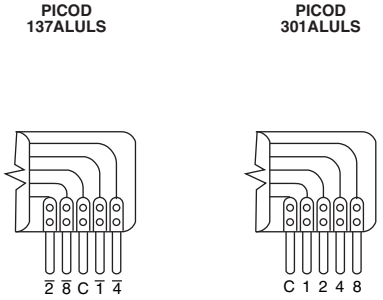
PICOD

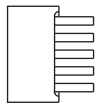






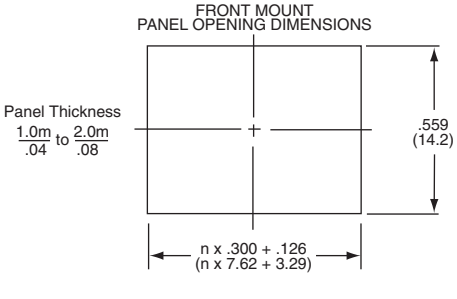






Connector with PC terminals for PICO family switches with AK terminal configuration.

PICOD



n = Number of Switches

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Pushwheel Switches, Mini, Front Mount

SMCD Series have large visible readout characters despite it's small size. This popular family is used in measurement and test instrumentation for range setting, data programming and count controlling; and in communications equipment for digital tuning. The simple, reliable bi-direction pushbutton mechanism permits rapid changes to either higher or lower numerical settings. Instrument-grade performance and long service life are enhanced by the heavy gold wiping contacts. Large readout characters are protected by dust-sealed windows. Snap-together grouping and snap-in panel mounting minimize installation time and cost. SMCD models have snap detent with slight audible click.

SMCD bi-directional code switches may be easily assembled into groups of any number. The tabs or pins of one decade section press fit into the holes in the adjacent section. Spacers and end mounting plates may be included in the same manner as desired.

Groups of SMCD switches with end plates snap into panel holes of the recommended size and are retained by plastic clips. Again, tools and additional hardware items are not required.

MATERIAL SPECIFICATIONS:

PC Board.....Glass epoxy type, FR4
PC Terminals .....Gold over Ni on Cu
Character Height/Color.....White on black background
SMC .197/.134; SMCD .193/.134
Except 301 & SG558: .140 and
SG557 .120
Molded parts .....Noryl-SE1, Black matte finish
Housing.....Black matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC or Peak AC
Contact Circuit Resistance .....0.12 Ohm max. (Total internal ckt. res.)
Mechanical Life .....More than 10^6 operations
Operational Force.....Approx. 14 oz.

ENVIRONMENTAL SPECIFICATIONS

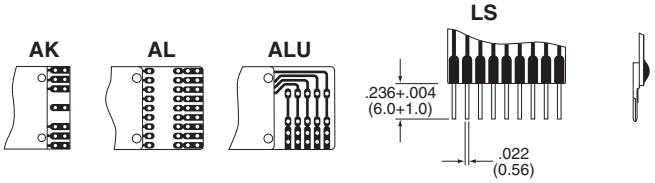
Operating Temperature.....(-20°C to +80°C)

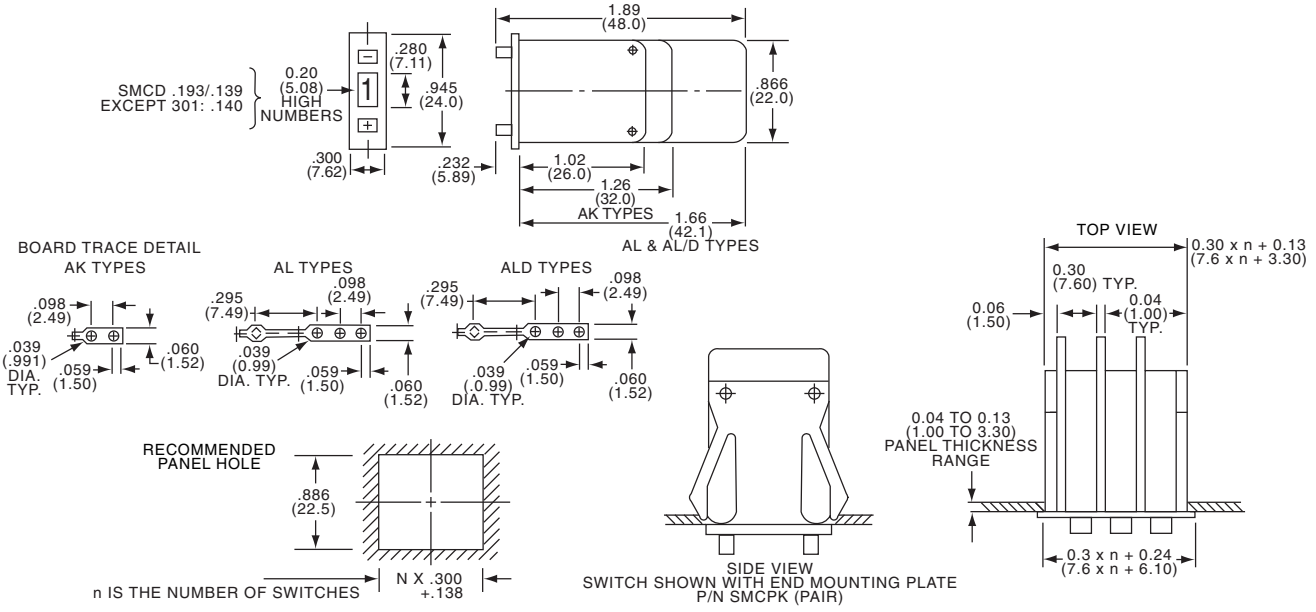
Model	Description
SMCPK	End mounting plates (pair)
SMCL	300" spacer section
SMCA	.100" spacer (with mounting clips)
SMCADP	.100" spacer, decimal point (with mounting clips)
B9L	Connector, 9 contacts, solder lug terminals
B9LS	Connector, 9 contacts, PC pins
B9LS5PIN	Connector, 5 contacts, PC pins
B11LS	Connectors, 11 contacts, PC pins (for 111)
SP1.2	Limit stop pin for SMD 10 position only

SMCD - 131 - AK

Codes	Connections
111 = Decimal	AK = pcb short
131 = BCD	AL = pcb long
137 = BCD Complement	LS = solder pin
141 = BCD + Complement	ALU = pcb long downward
301 = Hexadecimal	

See Code Tables on Page J3





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Pushwheel Switches, Mini, Rear Mount

The DPS8 Series is a compact, lower cost family of instrument grade, pushbutton code switches for numerical input applications. DPS8 models are similar in size to those of the SMCD Series and also feature a fast-snap-together assembly with conventional behind-the-panel mounting. A simple reliable bidirectional pushbutton mechanism allows rapid changes to either higher or lower numerical setting. Reliable performance in logic level circuits and long service life are provided by gold clad wiping contacts. A dust-sealed window protects the readout characters, which are larger than those of comparable thumbwheel switches. DPS8 switches have snap-action detent.

MATERIAL SPECIFICATIONS

PC Board .....Glass epoxy type, FR4
PC Terminal Spacing .....DSP811: .079", 131,137, 141: .100"
Character Height/Color .....0.193" White on black background
Housing .....Noryl-SE1, Black, matte finish
Operating Force .....Approx. 14 oz.

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating .....0.4 VA @ 20 VDC or Peak AC
Contact Circuit Resistance ...0.15 ohms max.
Mechanical Life .....More than 10^6 operations

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....(-20°C to +80°C)

MODULE ASSEMBLY METHOD

DPS bi-directional code switches may be easily assembled into groups of any number. Each switch, spacer or end-plate pair has appropriate snap-together assembly. No tools are required, little time consumed.

Groups of DPS8 switches, with end-plates mount into panel holes of the recommended size using four screws plus nuts and washers.

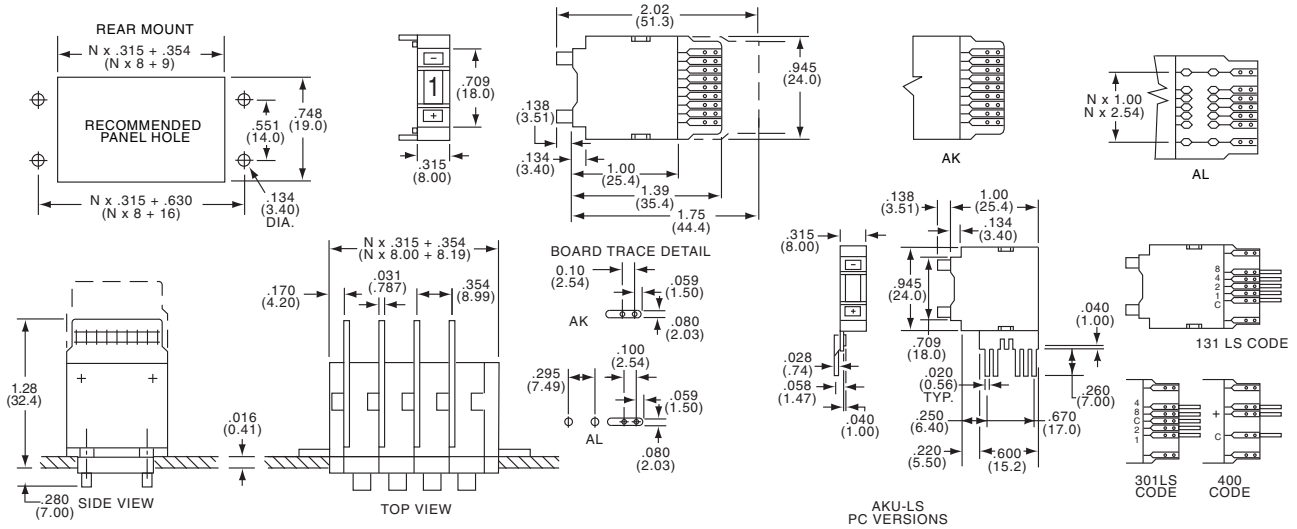
ACCESSORIES

Model	Description
DPS8A	Spacer .157" (4mm)
DPS8L	.315" spacer section
DPS8P	End mounting plates, decorative only (pair)
DPS8PW	End mounting plates, flanged with mounting holes (pair)
B9L	Connector, 9 contacts, solder lug terminals
B9LS	Connector, 9 contacts, pc terminals
B11LS	Connector, 11 contacts, PC terminals (for Code III Switch)
SP1.2	Limit stop pin for 10 position only.

DPS8 - 131 - AK

Codes	Connections
111 = Decimal	AK = pcb short
131 = BCD	AL = pcb long
137 = BCD Complement	LS = solder pin
141 = BCD + Complement	AKU = pcb short downward
301 = Hexadecimal	ALU = pcb long downward

See Code Tables on Page J3



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Pushwheel Switches, Front Mount

DPS9 and DPS10 dual pushbutton code switches have identical heights but differ in width. These switches provide silent, reliable state-of-the-art bi-directional operation and can directly retrofit common thumbwheel switches. The readout characters are up to 60% larger than those of comparable thumbwheels. DPS9 models have the popular .315" per section width, and DPS10 types are .395" wide.

A simple reliable dual pushbutton mechanism permits rapid change to a higher or a lower numerical setting. Gold clad wiping contacts provide dependable low-level operation and extended life expectancy. Snap-togther modular design enables fast assembly hardware. Wheel markings are protected by a dust-sealed window.

MATERIAL SPECIFICATIONS:

PC Board .....Glass epoxy type, FR4
PC Terminal Spacing .....100" Centers on integral multiples
Character Height/Color .....See below
Housing .....Noryl-SE1, Black, matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.4 VA @ 20 VDC or Peak AC
Contact Circuit Resistance ...0.20 Ohm max.
Mechanical Life .....More than 10^6 operations
Operating Force .....Approx. 16 oz.

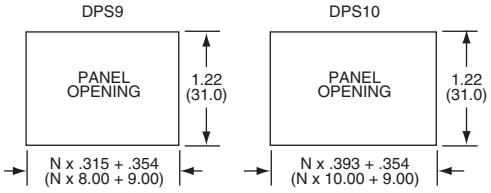
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....(-20°C to +80°C)

ACCESSORIES

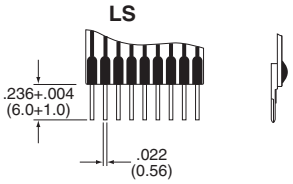
DPS9 Model	DPS10 Model	Description
DPS910A	DPS910A	Spacer, 0.1 inch
	DPS10	*Dummy switch (no electrical function)
DPS9L	DPS10L	Spacer, same width as switch
**DPS910P	**DPS910P	End mounting plate pair
B12L	B12L	Connector, 12 contacts, solder lugs
B12LS	B12LS	Connector, 12 contacts, PC terminals
SP1.5	SP1.5	Limit stop pin for 10 position switch

* Indicates switch mechanically operable, optionally available with wheel in fixed position.; ** Indicates sold in pairs only.

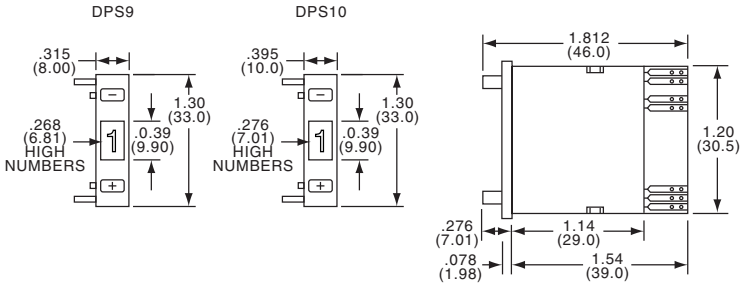


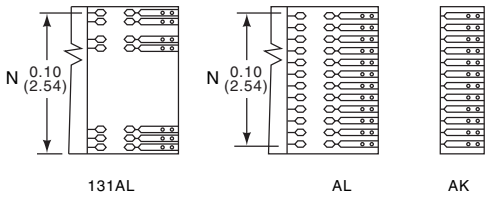
DPS9 - 131 - AK

Series/types	Codes	Connections
DPS9	111 = Decimal	AK = pcb short
DPS10	131 = BCD	AL = pcb long
	137 = BCD Complement	LS = solder pin
	301 = Hexadecimal	



See Code Tables on Page J3





Character height . . . Model DPS9 10 digit .268
16 digit .169
Model DPS10 10 digit .276
16 digit .169

J

DPS9 & DPS10 Series

Catalog 1308390
Issued 9-04
www.tycoelectronics.com

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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Engineering Notes

Catalog 1308390
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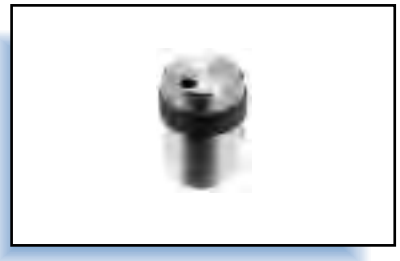
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
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K Series - Page K4



KCB Series - Page K5



KE Series - Page K6



KLNS Series - Page K8



KN Series - Page K8



PK Series - Page K13



PKD Series - Page K14

Knobs

K

Alcoknob

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

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Alcoknob Part Number Index

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K1250B1/4 .....K4
K1251B1/4 .....K4
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K1255BS1/4 .....K4
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General Knob Information

SPECIFICATIONS

A. STANDARD KNOB TYPES

1. INSPECTION CRITERIA - Normal inspection is performed without magnification while holding knob at a distance of 12 to 14 inches for a period of 5 seconds, under normal light. The following imperfections are not acceptable:

Finish: visable marks or scratches, runs, or non-uniform coverage.
Artwork: voids, specks, bleeding or other inconsistencies

2. MATERIALS - K Series: Machined aluminum alloy stock
Finish: gloss anodize
Setscrews: Stainless steel, type 303, hex head, cup point

P Series: General purpose phenolic (thermoset) (Max. Temp. 120-125°C continuous)
Finish: Gloss (except PKX, matte)
Insert: Brass
Setscrews: Stainless steel, hex head, cup point
Inlays: Skirts: Aluminum alloy, spun finish

B. CUSTOM TYPES

1. ALUMINUM — Configuration - most semi-standard or custom designs can be machined. A drawing is required to provide a quotation. Non-standard shaft hole diameters are available also.

Finish - Anodizing or paint of various colors can be provided. A color chip is required to ensure proper color shade.

Artwork - alpha-numeric lettering, indicator lines, markings, etc. can be provided. Silkscreening and other processes are available.

2. PHENOLIC — Configuration - most custom styles can be molded.

Colors - various custom colored standard knobs can be provided. Color chip is required.

Artwork - lettering, markings, etc. can be provided.

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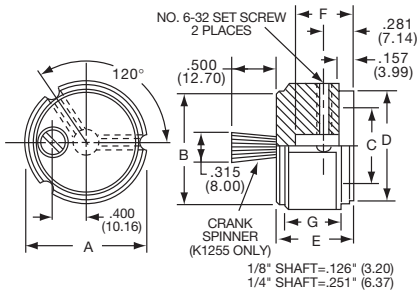
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Knobs, Machined Aluminum

K SERIES



K700B1/4



Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
3 Flute Design with and without Indicator Line									
1437621-7	K500A1/8	Natural	.500(12.7)	.430(10.9)	.374(9.50)	.430(10.9)	.625(15.9)	.429(10.9)	.512(13.0)
1437621-6	K500A1/4	Natural	.500(12.7)	.430(10.9)	.374(9.50)	.430(10.9)	.625(15.9)	.429(10.9)	.512(13.0)
1437621-9	K500B1/8	Black	.500(12.7)	.430(10.9)	.374(9.50)	.430(10.9)	.625(15.9)	.429(10.9)	.512(13.0)
1437621-8	K500B1/4	Black	.500(12.7)	.430(10.9)	.374(9.50)	.430(10.9)	.625(15.9)	.429(10.9)	.512(13.0)
1-1437621-0	K700A1/4	Natural	.740(18.8)	.655(16.6)	.591(15.0)	.655(16.6)	.625(15.9)	.429(10.9)	.512(13.0)
1-1437621-1	K700B1/4	Black	.740(18.8)	.655(16.6)	.591(15.0)	.655(16.6)	.625(15.9)	.429(10.9)	.512(13.0)
1-1437621-3	K900A1/4	Natural	.937(23.8)	.817(20.8)	.709(18.0)	.817(20.8)	.625(15.9)	.429(10.9)	.512(13.0)
1-1437621-4	K900B1/4	Black	.937(23.8)	.817(20.8)	.709(18.0)	.8827(20.8)	.625(15.9)	.429(10.9)	.512(13.0)
1437621-2	K1250A1/4	Natural	1.25(31.8)	1.11(28.2)	.984(25.0)	1.11(28.2)	.750(19.1)	.554(14.1)	.630(16.00)
1437621-3	K1250B1/4	Black	1.25(31.8)	1.11(28.2)	.984(25.0)	1.11(28.2)	.750(19.1)	.554(14.1)	.630(16.00)
Less Indicator									
1437621-4	K1251B1/4	Black	1.25(31.8)	1.11(28.2)	.984(25.0)	1.11(28.2)	.750(19.1)	.554(14.1)	.630(16.00)
With Crank Spinner + Less Indicator									
	K1255AS1/4	Natural	1.25(21.8)	1.11(28.2)	.984(25.0)	1.11(28.2)	.750(19.1)	.554(14.1)	.630(16.00)
1437621-5	K1255BS1/4	Black	1.25(31.8)	1.11(28.2)	.984(25.0)	1.11(28.2)	.750(19.1)	.554(14.1)	.630(16.00)

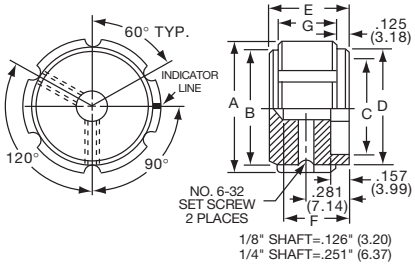
KA SERIES



KA500A1/4

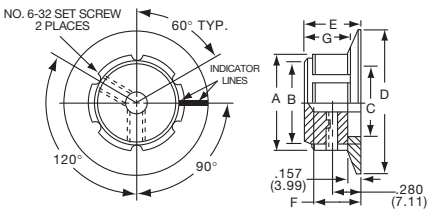


KA700B1/4



Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
6 Flute Design with Indicator Line									
2-1437621-0	KA500A1/8	Natural	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.625(15.9)	.512(13.0)	.430(10.9)
1-1437621-9	KA500A1/4	Natural	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.625(15.9)	.512(13.0)	.430(10.9)
2-1437621-2	KA500B1/8	Black	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.625(15.9)	.512(13.0)	430(10.9)
2-1437621-1	KA500B1/4	Black	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.625(15.9)	.512(13.0)	430(10.9)
2-1437621-3	KA700A1/4	Natural	.750(19.1)	.655(16.6)	.590(15.0)	.655(16.6)	.625(15.9)	.512(13.0)	.430(10.9)
2-1437621-4	KA700B1/4	Black	.750(19.1)	.655(16.6)	.590(15.0)	.655(16.6)	.625(15.9)	.512(13.0)	.430(10.9)
2-1437621-5	KA900A1/4	Natural	.937(28.8)	.817(20.8)	.700(17.8)	.817(20.8)	.625(15.9)	.512(13.0)	.430(10.9)
2-1437621-6	KA900B1/4	Black	.937(28.8)	.817(20.8)	.700(17.8)	.817(20.8)	.625(15.9)	.512(13.0)	.430(10.9)
	KA1250A1/4	Natural	1.25(31.8)	1.11(28.2)	.985(25.0)	1.11(28.2)	.750(19.1)	.630(16.0)	.554(14.1)
1-1437621-8	KA1250B1/4	Black	1.25(31.8)	1.11(28.2)	.985(25.0)	1.11(28.2)	.750(19.1)	.630(16.0)	.554(14.1)

KAS SERIES





Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
6 Flute Design with Aluminum Skirt and Indicator Lines									
2-1437621-8	KAS500A1/8	Natural	.500(12.7)	.430(10.9)	.380(9.65)	.740(18.8)	.630(16.0)	.510(13.0)	.430(10.9)
2-1437621-7	KAS500A1/4	Natural	.500(12.7)	.430(10.9)	.380(9.65)	.740(18.8)	.630(16.0)	.510(13.0)	.430(10.9)
3-1437621-0	KAS500B1/8	Black	.500(12.7)	.430(10.9)	.380(9.65)	.740(18.8)	.630(16.0)	.510(13.0)	.430(10.9)
2-1437621-9	KAS500B1/4	Black	.500(12.7)	.430(10.9)	.380(9.65)	.740(18.8)	.630(16.0)	.510(13.0)	.430(10.9)
3-1437621-1	KAS700A1/4	Natural	.750(19.1)	.650(16.5)	.590(15.0)	1.14(29.0)	.630(16.0)	.510(13.0)	.430(10.9)
3-1437621-2	KAS700B1/4	Black	.750(19.1)	.650(16.5)	.590(15.0)	1.14(29.0)	.630(16.0)	.510(13.0)	.430(10.9)
3-1437621-3	KAS900A1/4	Natural	.940(23.9)	.820(20.8)	.710(18.0)	1.40(35.6)	.630(16.0)	.510(13.0)	.430(10.9)
3-1437621-4	KAS900B1/4	Black	.940(23.9)	.820(20.8)	.710(18.0)	1.40(35.6)	.630(16.0)	.510(13.0)	.430(10.9)

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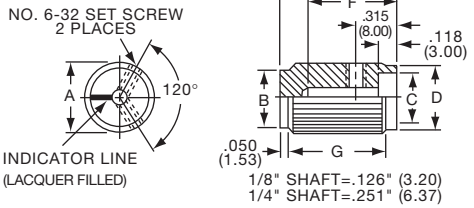
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Knobs, Machined Aluminum

KB SERIES





KB500A1/4

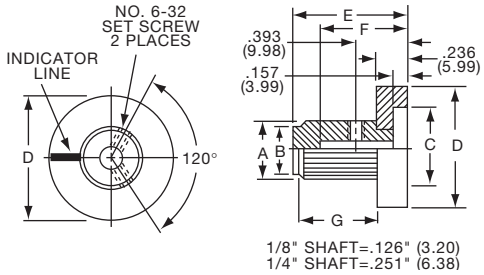


KB900B1/4

Control Knob with Straight Knurl and Top Line Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
3-1437621-6	KB500A1/8	Natural	.500(12.7)	.433(11.0)	.394(10.0)	.472(12.0)	.787(20.0)	.630(16.0)	.610(15.5)
3-1437621-5	KB500A1/4	Natural	.500(12.7)	.433(11.0)	.394(10.0)	.472(12.0)	.787(20.0)	.630(16.0)	.610(15.5)
3-1437621-9	KB500B1/8	Black	.500(12.7)	.433(11.0)	.394(10.0)	.472(12.0)	.787(20.0)	.630(16.0)	.610(15.5)
3-1437621-8	KB500B1/4	Black	.500(12.7)	.433(11.0)	.394(10.0)	.472(12.0)	.787(20.0)	.630(16.0)	.610(15.5)
4-1437621-0	KB700A1/4	Natural	.750(19.0)	.673(17.1)	.581(15.0)	.705(17.9)	.787(20.0)	.630(16.0)	.610(15.5)
4-1437621-2	KB700B1/4	Black	.750(19.0)	.673(17.1)	.581(15.0)	.705(17.9)	.787(20.0)	.630(16.0)	.610(15.5)
4-1437621-4	KB900A1/4	Natural	.930(23.6)	.866(22.0)	.710(18.0)	.902(22.9)	.787(20.0)	.630(16.0)	.610(15.5)
4-1437621-5	KB900B1/4	Black	.930(23.6)	.866(22.0)	.710(18.0)	.902(22.9)	.787(20.0)	.630(16.0)	.610(15.5)

KBS SERIES



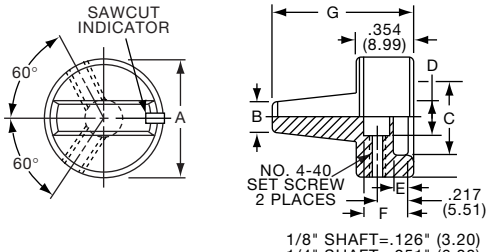


KBS500A101/4

Control Knob with Straight Knurl and Skirt

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
With 0-9 Numerals (36°)									
4-1437621-9	KBS500A101/8	Natural	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
	KBS500A101/4	Natural	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
5-1437621-3	KBS500B101/8	Black	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
5-1437621-2	KBS500B101/4	Black	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
With Indicator Line									
4-1437621-8	KBS500A1/8	Natural	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
4-1437621-7	KBS500A1/4	Natural	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
5-1437621-1	KBS500B1/8	Black	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)
5-1437621-0	KBS500B1/4	Black	.500(12.7)	.433(11.0)	.708(18.0)	1.00(25.4)	.950(24.1)	.826(21.0)	.655(16.7)

KCB SERIES





KCB500A1/4



KCB700B1/4

Control Knob with Sawcut Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
5-1437621-7	KCB500A1/8	Natural	.500(12.7)	.197(5.08)	.374(9.50)	.126(3.20)	.118(3.00)	.335(8.51)	.750(19.1)
5-1437621-6	KCB500A1/4	Natural	.500(12.7)	.197(5.08)	.374(9.50)	.252(6.40)	.118(3.00)	.335(8.51)	.750(19.1)
5-1437621-9	KCB500B1/8	Black	.500(12.7)	.197(5.08)	.374(9.50)	.126(3.20)	.118(3.00)	.335(8.51)	.750(19.1)
5-1437621-8	KCB500B1/4	Black	.500(12.7)	.197(5.08)	.374(9.50)	.252(6.40)	.118(3.00)	.335(8.51)	.750(19.1)
6-1437621-0	KCB600A1/8	Natural	.618(15.7)	.197(5.08)	.394(10.0)	.126(3.20)	.118(3.00)	.335(8.51)	.750(19.1)
	KCB600A1/4	Natural	.618(15.7)	.197(5.08)	.39410.0)	.252(6.40)	.118(3.00)	.335(8.51)	.750(19.1)
6-1437621-2	KCB600B1/8	Black	.618(15.7)	.197(5.08)	.394(10.0)	.126(3.20)	.118(3.00)	.335(8.51)	.750(19.1)
6-1437621-1	KCB600B1/4	Black	.618(15.7)	.197(5.08)	.394(10.0)	.252(6.40)	.118(3.00)	.335(8.51)	.750(19.1)
6-1437621-3	KCB700A1/4	Natural	.746(18.8)	.197(5.08)	.512(13.0)	.250(6.35)	.118(3.00)	.335(8.51)	.898(22.8)
6-1437621-4	KCB700B1/4	Black	.746(18.8)	.197(5.08)	.512(13.0)	.250(6.35)	.118(3.00)	.335(8.51)	.898(22.8)
6-1437621-5	KCB900A1/4	Natural	.937(23.8)	.197(5.08)	.709(18.0)	.250(6.35)	.118(3.00)	.335(8.51)	.898(22.8)
6-1437621-7	KCB900B1/4	Black	.937(23.8)	.197(5.08)	.709(18.0)	.250(6.35)	.118(3.00)	.335(8.51)	.898(22.8)

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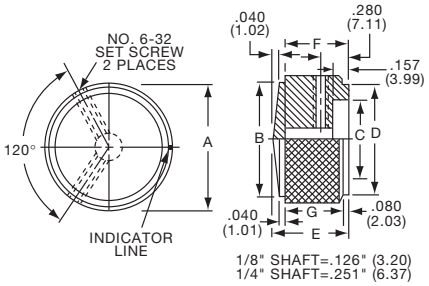
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Knobs, Machined Aluminum

KD SERIES



KD1250B1/4



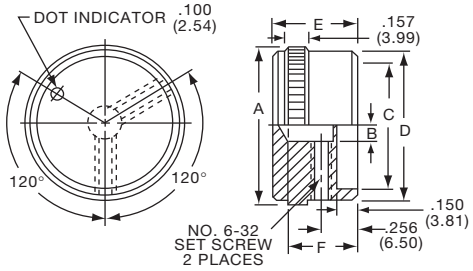
Diamond Knurl with Indicator Line

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
7-1437621-1	KD500A1/8	Natural	.500(12.7)	.430(10.9)	.380(9.65)	.430(10.9)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-0	KD500A1/4	Natural	.500(12.7)	.430(10.9)	.380(9.65)	.430(10.9)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-3	KD500B1/8	Black	.500(12.7)	.430(10.9)	.380(9.65)	.430(10.9)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-2	KD500B1/4	Black	.500(12.7)	.430(10.9)	.380(9.65)	.430(10.9)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-4	KD700A1/4	Natural	.750(19.1)	.660(16.8)	.590(15.0)	.660(16.8)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-5	KD700B1/4	Black	.750(19.1)	.660(16.8)	.590(15.0)	.660(16.8)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-6	KD900A1/4	Natural	.940(23.9)	.820(20.8)	.710(18.0)	.820(20.8)	.630(16.0)	.510(13.0)	.470(11.9)
7-1437621-7	KD900B1/4	Black	.940(23.9)	.820(20.8)	.710(18.0)	.820(20.8)	.630(16.0)	.510(13.0)	.470(11.9)
6-1437621-8	KD1250A1/4	Natural	1.25(31.8)	1.11(28.2)	.980(24.9)	1.11(28.2)	.750(19.1)	.630(16.0)	.590(15.0)
6-1437621-9	KD1250B1/4	Black	1.25(31.8)	1.11(28.2)	.980(24.9)	1.11(28.2)	.750(19.1)	.630(16.0)	.590(15.0)

KE SERIES



KE900AB1/4





KE500AB1/4

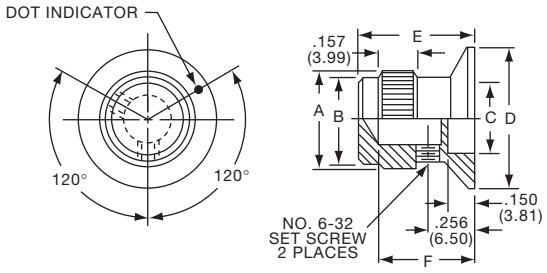
Knurl Grip with Top Dot Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	
8-1437621-0	KE500AB1/8	Ntl.- Blk.	.500(12.7)	.126(3.20)	.382(9.70)	.460(11.7)	.625(15.9)	.512(13.0)	
7-1437621-9	KE500AB1/4	Ntl.- Blk.	.500(12.7)	.126(3.20)	.382(9.70)	.460(11.7)	.62515.9)	.512(13.0)	
8-1437621-1	KE700AB1/4	Ntl. - Blk.	.740(18.8)	.251(6.38)	.630(16.0)	.708(18.0)	.625(15.9)	.512(13.0)	
8-1437621-2	KE900AB1/4	Ntl. - Blk.	.93(23.8)	.251(6.38)	.787(20.0)	.900(22.9)	.625(15.9)	.512(13.0)	
7-1437621-8	KE1250AB1/4	Ntl. - Blk.	1.25(31.8)	.251(6.38)	1.06(26.9)	1.17(29.7)	.625(15.9)	.512(13.0)	

KES SERIES



KES500AB1/4



Knurl Grip with Dot Indicator on Skirt

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	
8-1437621-4	KES500AB1/8	Ntl. - Blk.	.500(12.7)	.460(11.7)	.382(9.70)	.750(19.1)	.625(15.9)	.512(13.0)	
8-1437621-3	KES500AB1/4	Ntl. - Blk.	.500(12.7)	.460(11.7)	.382(9.70)	.750(19.1)	.625(15.9)	.512(13.0)	
8-1437621-5	KES700AB1/4	Ntl. - Blk.	.750(19.1)	.710(18.1)	.630(16.0)	1.13(28.7)	.625(15.9)	.512(13.0)	
	KES900AB1/4	Ntl. - Blk.	.937(23.8)	.897(22.8)	.787(20.0)	1.44(36.6)	.625(15.9)	.512(13.0)	

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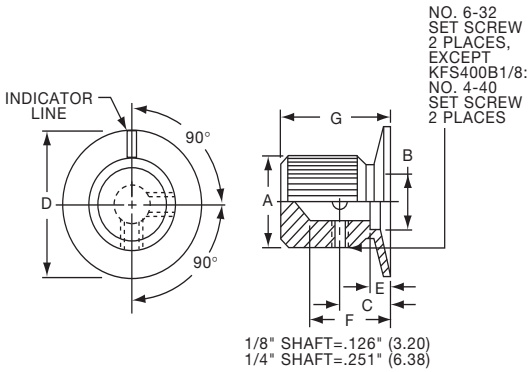
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Knobs, Machined Aluminum

KFS SERIES



KFS400B1/8



Straight Knurl with Indicator on Skirt

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G	
8-1437621-6	KFS400B1/8	Black Matte	.380(9.65)	.382(9.70)	.256(6.50)	.500(12.7)	.098(2.49)	.469(11.9)	0.591(15.0)
8-1437621-8	KFS500B1/8	Black Matte	.500(12.7)	.382(9.70)	.252(6.48)	.630(16.0)	.161(4.09)	.469(11.9)	.630(16.0)
8-1437621-7	KFS500B1/4	Black Matte	.618(15.7)	.280(7.11)	.382(9.70)	1.00(25.4)	.161(4.09)	.630(16.0)	0.811(20.6)
8-1437621-9	KFS600B1/4	Black Matte	.618(15.7)	.280(7.11)	.382(9.70)	1.00(25.4)	.161(4.09)	.630(16.0)	0.811(20.6)

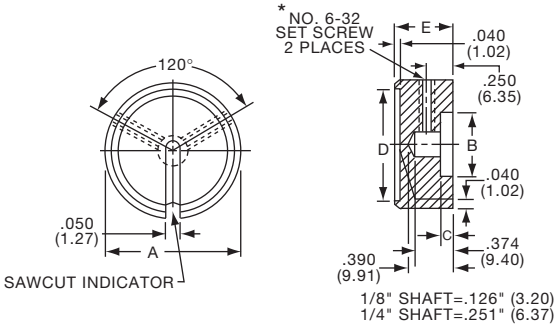
KHF SERIES



KHF500A1/4



KHF900A1/4



KHF500, 700, 900 1 set screw

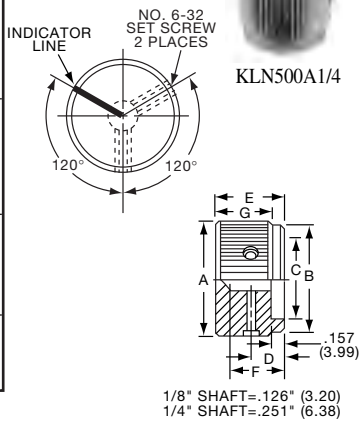
Plain Body with Top and Side Sawcut Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	
9-1437621-1	KHF500A1/4	Natural	.500(12.7)	.374(9.50)	.118(3.00)	.342(8.69)	.563(14.3)
9-1437621-2	KHF700A1/4	Natural	.740(18.8)	.590(15.0)	.118(3.00)	.592(15.0)	.563(14.3)
9-1437621-3	KHF900A1/4	Natural	.937(23.8)	.708(18.0)	.118(3.00)	.779(19.8)	.563(14.3)
*9-1437621-0	KHF1250A1/4	Natural	1.23(31.8)	.984(25.0)	.118(3.00)	1.08(27.5)	.563(14.3)

KLN SERIES



KLN500A1/4



Straight Knurl with Top and Side Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G	
9-1437621-7	KLN500A1/8	Natural	.500(12.7)	0.445(11.3)	.374(9.50)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
9-1437621-6	KLN500A1/4	Natural	.500(12.7)	0.445(11.3)	.374(9.50)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
9-1437621-9	KLN500B1/8	Black	.500(12.7)	0.445(11.3)	.374(9.50)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
9-1437621-8	KLN500B1/4	Black	.500(12.7)	0.445(11.3)	.374(9.50)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-1	KLN500S1/4	Smoke	.500(12.7)	0.445(11.3)	.374(9.50)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-2	KLN700A1/4	Natural	.740(18.8)	.685(17.4)	.591(15.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-3	KLN700B1/4	Black	.740(18.8)	.685(17.4)	.591(15.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-4	KLN700B1/8	Black	.740(18.8)	.685(17.4)	.591(15.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-5	KLN700S1/4	Smoke	.740(18.8)	.685(17.4)	.591(15.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-6	KLN900A1/4	Natural	.937(23.8)	.882(22.4)	0.709(18.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-7	KLN900B1/4	Black	.937(23.8)	.882(22.4)	0.709(18.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
1437622-8	KLN900S1/4	Smoke	.937(23.8)	.882(22.4)	0.709(18.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
9-1437621-4	KLN1250A1/4	Natural	1.252(31.80)	1.195(30.35)	.984(25.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)
9-1437621-5	KLN1250B1/4	Black	1.252(31.80)	1.195(30.35)	.984(25.0)	.281(7.14)	.625(15.9)	.512(13.0)	.527(13.4)

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Knobs, Machined Aluminum

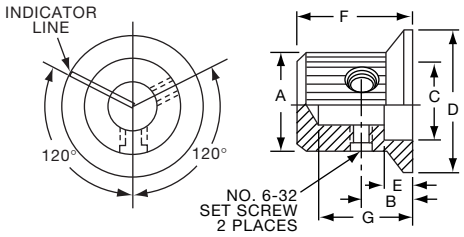
KLNS SERIES



KLNS500B1/8



KLNS900B1/4



1/8" SHAFT=.126" (3.20)
1/4" SHAFT=.251" (6.37)

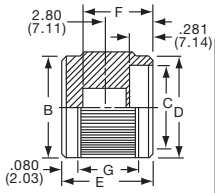
Straight Knurl with Indicator Line on Top, Side and Skirt

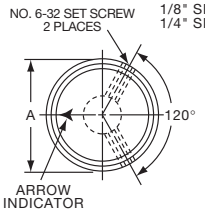
Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G	
1-1437622-6	KLNS500A1/8	Natural	.500(12.7)	.280(7.11)	.380(9.65)	.750(19.0)	.160(4.07)	.630(16.0)	.510(13.0)	
1-1437622-5	KLNS500A1/4	Natural	.500(12.7)	.280(7.11)	.380(9.65)	.750(19.0)	.160(4.07)	.630(16.0)	.510(13.0)	
1-1437622-8	KLNS500B1/8	Black	.500(12.7)	.280(7.11)	.380(9.65)	.750(19.0)	.160(4.07)	.630(16.0)	.510(13.0)	
1-1437622-7	KLNS500B1/4	Black	.500(12.7)	.280(7.11)	.380(9.65)	.750(19.0)	.160(4.07)	.630(16.0)	.510(13.0)	
2-1437622-0	KLNS700A1/4	Natural	.750(19.0)	.280(7.11)	.590(14.9)	1.13(28.7)	.160(4.07)	.630(16.0)	.510(13.0)	
2-1437622-1	KLNS700B1/4	Black	.750(19.0)	.280(7.11)	.590(14.9)	1.13(28.7)	.160(4.07)	.630(16.0)	.510(13.0)	
2-1437622-2	KLNS900A1/4	Natural	.940(23.9)	.280(7.11)	.710(18.0)	1.40(35.5)	.160(4.07)	.630(16.0)	.510(13.0)	
2-1437622-3	KLNS900B1/4	Black	.940(23.9)	.280(7.11)	.710(18.0)	1.40(35.5)	.160(4.07)	.630(16.0)	.510(13.0)	

KN SERIES



KN501A1/4





1/8" SHAFT=.126" (3.20)
1/4" SHAFT=.251" (6.38)

Straight Knurl with Arrowhead Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G	
5-1437622-1	KN501A1/8	Natural	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
5-1437622-0	KN501A1/4	Natural	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
5-1437622-3	KN501B1/8	Black	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
5-1437622-2	KN501B1/4	Black	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
6-1437622-2	KN701A1/4	Natural	.750(19.1)	.695(17.7)	.590(15.0)	695(17.7)	.625(15.9)	.512(13.0)	.456(11.58)	
6-1437622-3	KN701B1/4	Black	.750(19.1)	.695(17.7)	.590(15.0)	695(17.7)	.625(15.9)	.512(13.0)	.456(11.58)	
Two Toned		**Body-Top**								
5-1437622-5	KN501BA1/8	Blk. - Ntl.	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
5-1437622-4	KN501BA1/4	Blk. - Ntl.	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.3)	.625(15.9)	.512(13.0)	.456(11.58)	
6-1437622-5	KN701BA1/8	Blk. - Ntl.	.750(19.1)	.695(17.7)	.590(15.0)	695(17.7)	.625(15.9)	.512(13.0)	.456(11.58)	
6-1437622-4	KN701BA1/4	Blk. - Ntl.	.750(19.1)	.695(17.7)	.590(15.0)	695(17.7)	.625(15.9)	.512(13.0)	.456(11.58)	

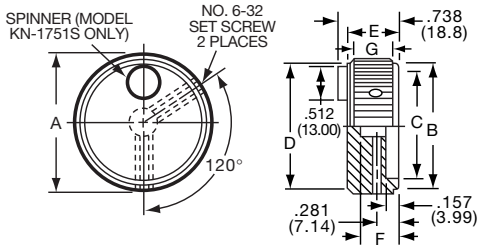
KN SERIES



KN1751AS1/4



KN1751B1/4



1/4" SHAFT=.251" (6.38)

Straight Knurl with & without "Fingertip" Spinner

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G	
Less Indicator										
3-1437622-2	KN1751A1/4	Natural	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.0)	.508(12.9)	.480(12.2)	
3-1437622-6	KN1751B1/4	Black	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
Two Toned		**Body - Top**								
3-1437622-3	KN1751AB1/4	Ntl. - Blk.	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
3-1437622-7	KN1751BA1/4	Blk. - Natural	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
With Indicator										
	KN1750A1/4	Natural	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
3-1437622-1	KN1750B1/4	Black	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
With Spinner/Less Indicator										
3-1437622-5	KN1751AS1/4	Natural	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	
3-1437622-8	KN1751BS1/4	Black	1.75(44.5)	1.55(39.4)	1.38(35.1)	1.65(41.9)	.620(15.8)	.508(12.9)	.480(12.2)	

Catalog 1308390
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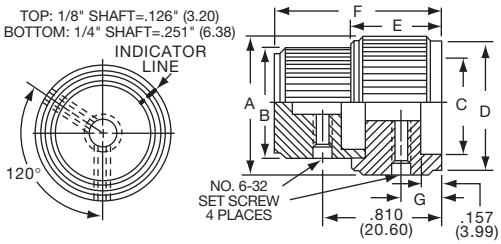
Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

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USA: 1-800-522-6752
Canada: 1-905-470-4425
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Knobs, Machined Aluminum

KN SERIES





KN5700B1/4

Concentric Set with Straight Knurl with Indicator Lines

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
5-1437622-6	KN5700A1/4	Natural	.750(19.1)	.500(12.7)	.590(15.0)	.700(17.8)	.625(15.9)	1.16(29.5)	.281(7.14)
5-1437622-7	KN5700B1/4	Black	.750(19.1)	.500(12.7)	.590(15.0)	.700(17.8)	.625(15.9)	1.16(29.5)	.281(7.14)

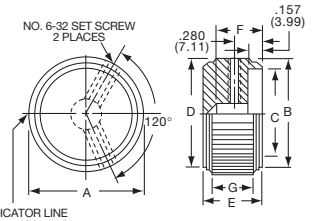
KN SERIES



KN500A1/4



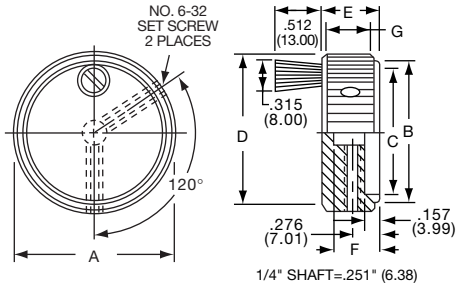
KN900BA1/4



Straight Knurl with & without Indicator Line Diameter Dimensions

Tyco Electronics	Alcoswitch	Color Body-Top	A	B	C	D	E	F	G
4-1437622-3	KN500A1/8	Natural	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-2	KN500A1/4	Natural	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-7	KN500B1/8	Black	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-6	KN500B1/4	Black	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
5-1437622-8	KN700A1/4	Natural	.750(19.1)	.695(17.7)	.590(15.0)	.695(17.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-0	KN700B1/4	Black	.750(19.1)	.695(17.7)	.590(15.0)	.695(17.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-6	KN900A1/4	Natural	.949(24.1)	.894(22.7)	.696(17.7)	.894(22.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-8	KN900B1/4	Black	.949(24.1)	.894(22.7)	.696(17.7)	.894(22.7)	.625(15.9)	.512(13.0)	.456(11.7)
2-1437622-5	KN1250A1/4	Natural	1.25(31.8)	1.20(30.5)	.984(25.0)	1.20(30.5)	.625(15.9)	.512(13.0)	.456(11.6)
2-1437622-7	KN1250B1/4	Black	1.25(31.8)	1.20(30.5)	.984(25.0)	1.20(30.5)	.625(15.9)	.512(13.0)	.456(11.6)
Two-Toned									
4-1437622-5	KN500AB1/8	Ntl - Blk.	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-4	KN500AB1/4	Ntl - Blk..	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-9	KN500BA1/8	Blk. - Ntl.	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
4-1437622-8	KN500BA1/4	Blk. - Ntl.	.500(12.7)	.445(11.3)	.374(9.50)	.445(11.5)	.625(15.9)	.512(13.0)	.456(11.6)
5-1437622-9	KN700AB1/4	Ntl - Blk..	.750(19.1)	.695(17.7)	445(11.5)	.695(17.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-1	KN700BA1/4	Blk. - Ntl.	.750(19.1)	.695(17.7)	445(11.5)	.695(17.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-7	KN900AB1/4	Ntl - Blk..	.949(24.1)	.89422.7)	.695(17.7)	..894(22.7)	.625(15.9)	.512(13.0)	.456(11.6)
6-1437622-9	KN900BA1/4	Blk. - Ntl.	.949(24.1)	.894(22.7)	.695(17.7)	.894(22.7)	.625(15.9)	.512(13.0)	.456(11.7)
2-1437622-6	KN1250AB1/4	Ntl - Blk..	1.25(31.8)	1.20(30.5)	.984(25.0)	1.20(30.5)	.625(15.9)	.512(13.0)	.456(11.6)
2-1437622-8	KN1250BA1/4	Blk. - Ntl.	1.25(31.8)	1.20(30.5)	.984(25.0)	1.20(30.5)	.625(15.9)	.512(13.0)	.456(11.6)
Less Indicator									
2-1437622-9	KN1251A1/4	Natural	1.25(31.8)	1.20(30.5)	.984(25.0)	1.25(31.7)	.625(15.9)	.512(13.0)	.456(11.7)
3-1437622-0	KN1251B1/4	Black	1.25(31.8)	1.20(30.5)	.984(25.0)	1.25(31.7)	.625(15.9)	.512(13.0)	.456(11.7)

KN SERIES





KN1755BS1/4

Straight Knurl with "Crank" Spinner

Tyco Electronics	Alcoswitch	Color Body-Top/Spin	A	B	C	D	E	F	G
	KN1755AS1/4	Natural	1.76(44.7)	1.56(39.5	.138(35.0)	1.65(41.8)	.630(16.0)	.512(13.0)	.492(12.5)
4-1437622-1	KN1755BS1/4	Black	1.76(44.7)	1.56(39.5)	.138(35.0)	1.65(41.8)	.630(16.0)	.512(13.0)	.492(12.5)
3-1437622-9	KN1755ABS1/4	Ntl.-Blk./Blk.	1.76(44.7)	1.56(39.5)	1.38(35.0)	1.65(41.8)	.630(16.0)	.512(13.0)	.492(12.5)
4-1437622-0	KN1755BAS1/4	Blk.-Ntl. Blk.	1.76(44.7)	1.56(39.5)	1.38(35.0)	1.65(41.8)	.630(16.0)	.512(13.0)	.492(12.5)

Catalog 1308390
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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Knobs, Machined Aluminum

KNS SERIES



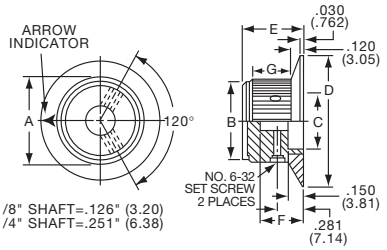
KNS501A1/4



KNS701B1/4



KNS701BA1/4



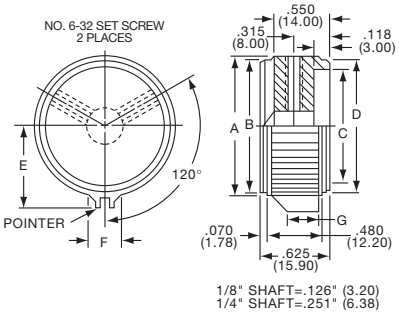
Straight Knurl with Arrowhead Indicator on Skirt

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
7-1437622-3	KNS501A1/8	Natural	.500(12.7)	.445(11.3)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-2	KNS501A1/4	Natural	.500(12.7)	.445(11.3)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-5	KNS501B1/8	Black	.500(12.7)	.445(11.3)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-4	KNS501B1/4	Black	.500(12.7)	.445(11.3)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-8	KNS701A1/4	Natural	.750(19.1)	.695(17.7)	.590(15.0)	1.12(28.5)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-9	KNS701B1/4	Black	.750(19.1)	.695(17.7)	.590(15.0)	1.12(28.5)	.625(15.9)	.512(13.0)	.428(10.9)
Two-Toned	**Body-Top/Skirt**								
7-1437622-7	KNS501BA1/8	Blk.- Ntl.	.500(12.7)	.695(17.7)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
7-1437622-6	KNS501BA1/4	Blk.- Ntl.	.500(12.7)	.695(17.7)	.370(9.40)	.750(19.1)	.625(15.9)	.512(13.0)	.428(10.9)
8-1437622-1	KNS701BA1/8	Blk. - Ntl.	.750(19.1)	.695(17.7)	.590(15.0)	1.12(28.5)	.625(15.9)	.512(13.0)	.428(10.9)
8-1437622-0	KNS701BA1/4	Blk.- Ntl.	.750(19.1)	.695(17.7)	.590(15.0)	1.12(28.5)	.625(15.9)	.512(13.0)	.428(10.9)

KPN SERIES



KPN500B1/8



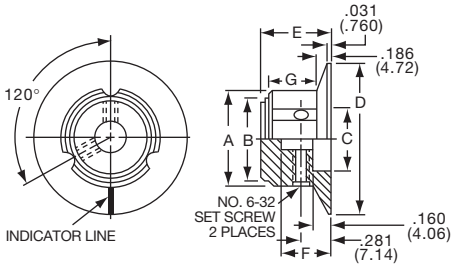
Straight Knurl with Pointer and Indicator Line

Tyco Electronics	Alcoswitch	Color Body-Top	A	B	C	D	E	F	G
9-1437622-1	KPN500A1/8	Natural	.500(12.7)	.445(11.3)	.372(9.45)	.445(11.3)	.368(9.35)	.195(4.95)	.354(8.99)
9-1437622-0	KPN500A1/4	Natural	.500(12.7)	.445(11.3)	.372(9.45)	.445(11.3)	.368(9.35)	.195(4.95	.354(8.99)
9-1437622-3	KPN500B1/8	Black	.500(12.7)	.445(11.3)	.372(9.45)	.445(11.3)	.368(9.35)	.195(4.95	.354(8.99)
9-1437622-2	KPN500B1/4	Black	.500(12.7)	.445(11.3)	.372(9.45)	.445(11.3)	.368(9.35)	.195(4.95	.354(8.99)
9-1437622-5	KPN700A1/4	Natural	.750(19.1)	.695(17.65)	.590(15.0)	.695(17.7)	.515(13.1)	.234(5.94)	.394(10.0)
9-1437622-6	KPN700B1/4	Black	.750(19.1)	.695(17.65)	.590(15.0)	.695(17.7)	.515(13.1)	.234(5.94)	.394(10.0)
9-1437622-7	KPN900A1/4	Natural	.937(23.8)	.882(22.40)	.692(17.6)	.882(22.4)	.630(16.0)	.276(7.01)	.350(8.90)
9-1437622-9	KPN900B1/4	Black	.937(23.8)	.882(22.40)	.692(17.6)	.882(22.4)	.630(16.0)	.276(7.01)	.350(8.90)

KS SERIES



KS500A1/4



1/4" SHAFT=.251" (6.37)



KS900B1/4

3 Flute Design with Aluminum Skirt and Indicator Line

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
1437623-3	KS500A1/8	Natural	.500(12.7)	.430(10.9)	.360(9.14)	.750(19.1)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-2	KS500A1/4	Natural	.500(12.7)	.430(10.9)	.360(9.14)	.750(19.1)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-5	KS500B1/8	Black	.500(12.7)	.430(10.9)	.360(9.14)	.750(19.1)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-4	KS500B1/4	Black	.500(12.7)	.430(10.9)	.360(9.14)	.750(19.1)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-6	KS700A1/4	Natural	.750(19.0)	.650(16.5)	.590(14.9)	1.12(28.4)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-7	KS700B1/4	Black	.750(19.0)	.650(16.5)	.590(14.9)	1.12(28.4)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-8	KS900A1/4	Natural	.940(23.9)	.820(20.8)	.710(18.0)	1.40(35.6)	.620(15.8)	.510(13.0)	.430(10.9)
1437623-9	KS900B1/4	Black	.940(23.9)	.820(20.8)	.710(18.0)	1.40(35.6)	.620(15.8)	.510(13.0)	.430(10.9)

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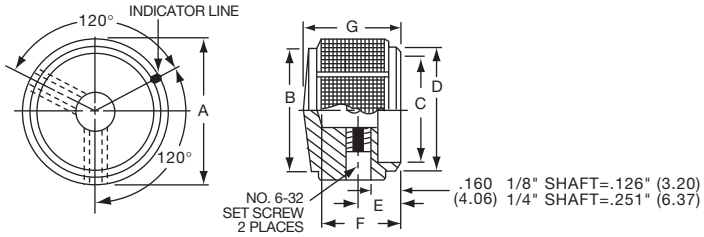
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Knobs, Machined Aluminum

KT SERIES



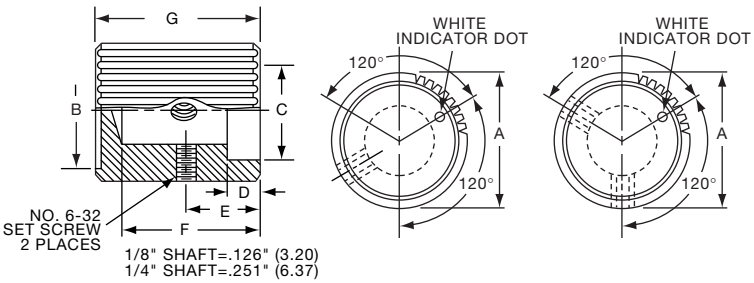

KT500A1/4


KT700A1/4

Square Serration with Indicator Line

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
1-1437623-2	KT500A1/4	Natural	.500(12.7)	.430(10.9)	.375(953)	.430(10.9)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-4	KT500B1/8	Black	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-3	KT500B1/4	Black	.500(12.7)	.430(10.9)	.375(9.53)	.430(10.9)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-6	KT700A1/4	Natural	.740(18.8)	.650(16.5)	.590(15.0)	.650(16.5)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-7	KT700B1/4	Black	740(18.8)	.650(16.5)	.590(15.0)	.650(16.5)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-8	KT900A1/4	Natural	.940(23.9)	.816(20.7)	.710(18.0)	.816(20.7)	.280(7.11)	.510(13.0)	.630(16.0)
1-1437623-9	KT900B1/4	Black	.940(23.9)	.816(20.7)	.710(18.0)	.816(20.7)	.280(7.11)	.510(13.0)	.630(16.0)

KU SERIES



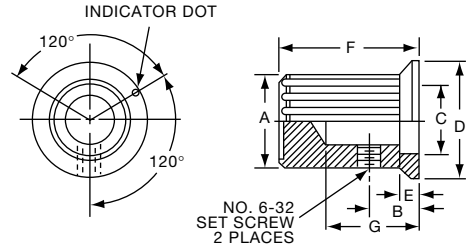
Note: KU401B1/8 and KU402B1/8 use one set screw only. Located 180° from indicator dot.


KU402B1/8

Serrated Diamond Trim Cut with Dot Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
2-1437623-1	KU401B1/8	Black	.374(9.50)	.283(7.19)	.276(7.01)	.098(2.49)	.177(4.50)	.236(5.99)	.299(7.60)
2-1437623-2	KU402B1/8	Black	.374(9.50)	.283(7.19)	.276(7.01)	.098(2.49)	.197(5.00)	.354(8.99)	.449(11.40)
2-1437623-3	KU500B1/8	Black	.500(12.7)	.409(10.4)	.374(9.50)	.118(3.00)	.276(7.01)	.512(13.0)	.598(15.2)
	KU500B1/4	Black	.500(12.7)	.409(10.4)	.374(9.50)	.118(3.00)	.276(7.01)	.512(13.0)	.598(15.2)
2-1437623-4	KU700B1/4	Black	.740(18.8)	.650(16.5)	.591(15.0)	.118(3.00)	.276(7.01)	.512(13.0)	.598(15.2)

KUS SERIES




KUS402B1/8


KUS700B1/4

Serrated Diamond Trim Cut with Dot Indicator

Tyco Electronics	Alcoswitch	Color	A	B	C	D	E	F	G
2-1437623-9	KUS402B1/8	Black	.374(9.50)	.197(5.00)	.276(7.01)	.520(13.2)	.098(2.49)	.450(11.4)	.354(8.99)
3-1437623-0	KUS500B1/8	Black	.500(12.7)	.276(7.01	.374(9.50)	.700(17.8)	.118(3.00)	.600(15.2)	.512(13.0)
	KUS500B1/4	Black	.500(12.7)	.276(7.01)	.374(9.50)	.700(17.8)	.118(3.00)	.600(15.2)	.512(13.0)
3-1437623-1	KUS700B1/4	Black	.740(18.8)	.276(7.01)	.591(15.0)	1.03(26.2)	.118(3.00)	.600(15.2)	.512(13.0)

Note: KUS402B1/8 has #4.40 setscrew

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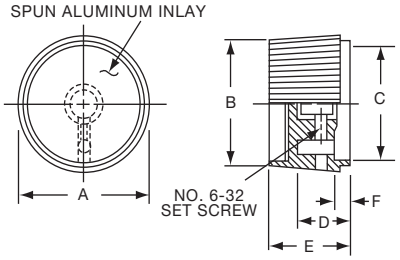
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Knobs, Molded Phenolic

PH SERIES



PH15181/4



Straight Knurl Less Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1437624-2	PH15181/4	.996(25.3)	.972(24.7)	.799(20.3)	.472(12.0)	.669(17.0)	.157(3.99)

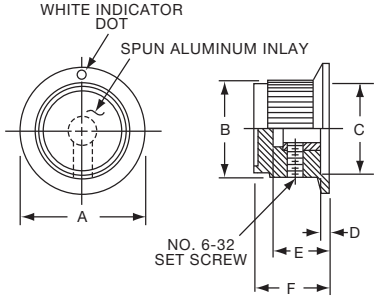
PK SERIES



PK50B1/8



PK701/4



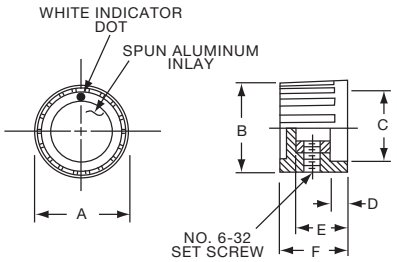
Straight Knurl with Dot Indicator on Skirt

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1437624-7	PK50B1/8	.748(19.0)	.570(14.5)	.500(12.70)	.055(1.40)	.460(11.7)	.550(13.97)
1437624-6	PK50B1/4	.748(19.0)	.570(14.5)	.500(12.70)	.055(1.40)	.460(11.7)	.550(13.97)
1437624-8	PK70B1/4	.984(25.0)	.728(18.5)	.710(18.03)	.079(2.01)	.500(12.7)	.590(14.99)
1437624-9	PK90B1/4	1.25(31.8)	.985(25.0)	.870(22.01)	.098(2.49)	.470(11.9)	.595(15.10)

PK SERIES



PK1100B1/4



Serrated with Dot Indicator on Top

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1437624-4	PK1100B1/8	.700(17.8)	.643(16.3)	.565(14.35)	.125(3.18)	.453(11.51)	.530(13.5)

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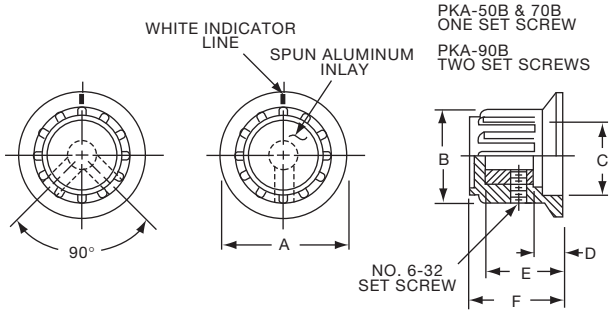
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Knobs, Molded Phenolic

PKA SERIES



Ribbed with Line Indicator on Skirt

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1-1437624-1	PKA50B1/8	.795(20.2)	.580(14.7)	.540(13.7)	.080(2.03)	.450(11.4)	.590(15.0)
1-1437624-0	PKA50B1/4	.795(20.2)	.580(14.7)	.540(13.7)	.080(2.03)	.450(11.4)	.590(15.0)
1-1437624-4	PKA55B1/8	.780(19.8)	.580(14.7)	.475(12.1)	.135(3.43)	.585(14.9)	.675(17.2)
1-1437624-3	PKA55B1/4	.780(19.8)	.580(14.7)	.475(12.1)	.135(3.43)	.585(14.9)	.675(17.2)
1-1437624-5	PKA70B1/4	.980(24.9)	.740(18.8)	.680(17.3)	.118(3.00)	.650(16.5)	.750(19.1)
1-1437624-7	PKA90B1/4	1.375(34.9)	.970(24.6)	.670(17.0)	.195(4.95)	.750(19.1)	.840(21.3)

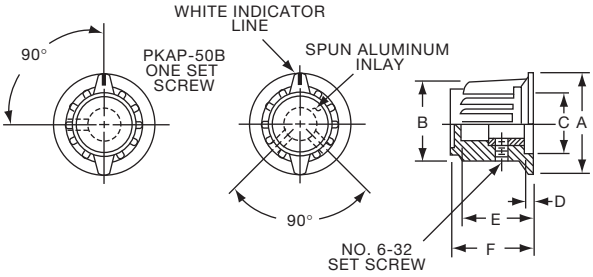


PKA50B1/4



PKA90B1/4

PKAP SERIES



Ribbed with Skirt and Pointer with Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1-1437624-8	PKAP50B1/4	.787(20.0)	.693(17.6)	.508(12.9)	.082(2.08)	.579(14.7)	.689(17.5)
1-1437624-9	PKAP50B1/8	.787(20.0)	.693(17.6)	.508(12.9)	.082(2.08)	.579(14.7)	.689(17.5)
2-1437624-0	PKAP70B1/4	.976(24.8)	.874(22.1)	.668(17.0)	.158(4.01)	.634(16.1)	.737(18.72)



PKAP50B1/8



PKAP90B1/4

K

P Series

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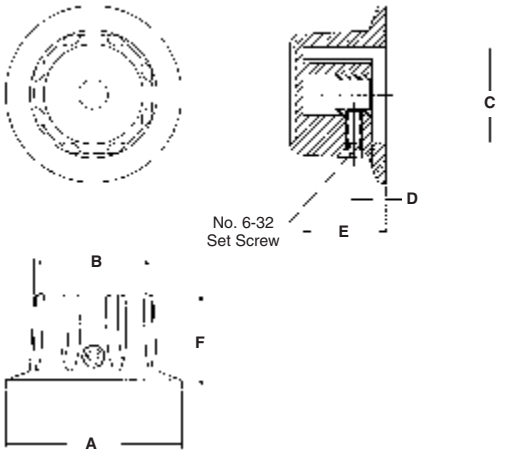
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Knobs, Molded Phenolic

PKB SERIES



PKB90B1/4



Fluted with Indicator Line On Skirt

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
2-1437624-3	PKB70B1/4	1.12(28.3)	.750(19.1)	.670(17.0)	.118(3.0)	.490(12.5)	.600(15.2)
2-1437624-4	PKB90B1/4	1.50(38.1)	1.02(25.8)	.800(20.3)	.118(3.0)	.705(17.9)	.820(20.8)

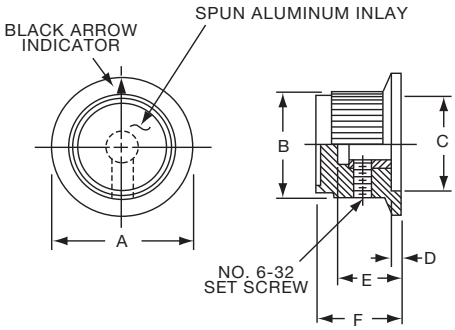
PKD SERIES



PKD60B1/4



PKD100B1/4



Straight Knurl Aluminum Skirt w/Arrow Indicator

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
2-1437624-8	PKD60B1/8	.780(19.8)	.566(14.4)	.487(12.4)	.059(1.5)	.492(12.5)	.563(14.3)
2-1437624-7	PKD60B1/4	.780(19.8)	.566(14.4)	.487(12.4)	.059(1.5)	.492(12.5)	.563(14.3)
3-1437624-1	PKD70B1/4	1.02(25.9)	.750(19.1)	.700(17.8)	.080(2.0)	.490(12.5)	.610(15.5)
2-1437624-5	PKD100B1/4	1.29(32.8)	1.00(25.4)	.865(22.0)	.050(1.3)	.500(12.7)	.590(15.0)

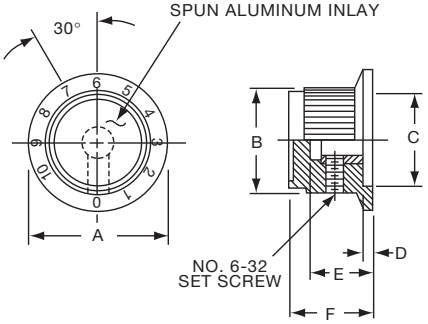
PKD SERIES



PKD60B101/8



PKD100B101/4



Straight Knurl Skirt w/0-10 Numerals

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
3-1437624-0	PKD60B101/8	.780(19.8)	.566(14.4)	.487(12.4)	.059(1.5)	.492(12.5)	.563(14.3)
2-1437624-9	PKD60B101/4	.780(19.8)	.566(14.4)	.487(12.4)	.059(1.5)	.492(12.5)	.563(14.3)
3-1437624-2	PKD70B101/4	1.02(25.9)	.750(19.1)	.700(17.8)	.080(2.0)	.490(12.5)	.610(15.5)
2-1437624-6	PKD100B101/4	1.29(32.8)	1.00(25.4)	.865(22.0)	.050(1.3)	.500(12.7)	.590(15.0)

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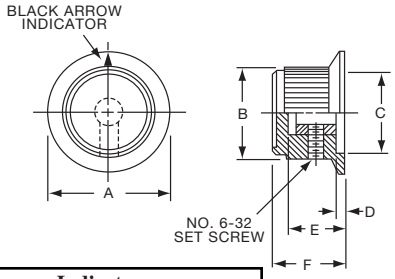
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Knobs, Molded Phenolic



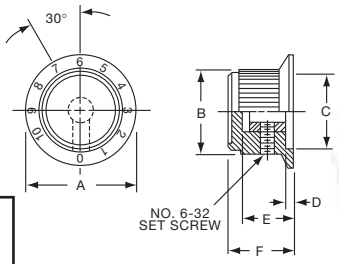
PKDT SERIES



PKDT100B1/4

Black Spin Cap with "Diamond Cut" and Arrow Indicator

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
3-1437624-9	PKDT70B1/4	1.03(26.0)	.738(18.8)	.720(18.3)	.098(2.49)	.500(12.7)	.635(16.1)
3-1437624-3	PKDT100B1/4	1.29(32.8)	1.02(25.9)	.860(21.8)	.042(1.07)	.500(12.7)	.638(16.2)



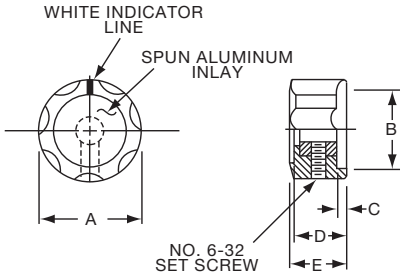
PKDT SERIES



PKDT100B101/4

Black Spin Cap with "Diamond Cut" & 0-10 Numerals

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
3-1437624-8	PKDT60B101/8	.778(19.8)	.605(15.4)	.560(12.5)	.060(1.53)	.392(9.96)	.562(14.3)
4-1437624-0	PKDT70B101/4	1.03(26.0)	.738(18.8)	.720(18.3)	.098(2.49)	.500(12.7)	.635(16.1)
3-1437624-4	PKDT100B101/4	1.29(32.8)	1.02(25.9)	.860(21.8)	.042(1.07)	.500(12.7)	.638(16.2)



PKE SERIES



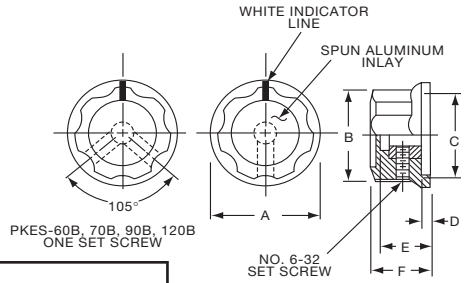
PKE60B1/8



PKE90B1/4

Fluted with Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E
4-1437624-4	PKE60B1/8	.626(15.9)	.472(12.0)	.091(2.31)	.394(10.0)	.472(12.0)
4-1437624-3	PKE60B1/4	.626(15.9)	.472(12.0)	.091(2.31)	.394(10.0)	.472(12.0)
4-1437624-5	PKE90B1/4	.890(22.6)	.724(18.4)	.098(2.49)	.480(12.2)	.512(13.0)



PKES SERIES



PKES60B1/4



PKES70B1/4

Fluted with Skirt and Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
5-1437624-1	PKES60B1/8	.748(19.0)	618(15.7)	.460(11.7)	.090(2.29)	.370(9.40)	.470(11.9)
5-1437624-0	PKES60B1/4	.748(19.0)	.618(15.7)	.460(11.7)	.090(2.29)	.370(9.40)	.470(11.9)
5-1437624-2	PKES70B1/4	.855(21.7)	.744(18.9)	.705(17.9)	.080(2.03)	.421(10.7)	.526(13.4)
5-1437624-3	PKES90B1/4	1.01(25.7)	.889(22.6)	.846(21.5)	.079(2.01)	.421(10.7)	.570(14.5)
4-1437624-6	PKES120B1/4	1.30(32.9)	1.16(29.5)	1.02(25.9)	.118(3.00)	.500(12.7)	.628(16.0)
4-1437624-7	PKES140B1/4	1.50(38.1)	1.37(34.9)	1.22(30.9)	.118(3.00)	.540(13.7)	.693(17.6)
4-1437624-8	PKES150B1/4	1.77(44.9)	1.55(39.4)	1.41(35.9)	.118(3.00)	.733(18.6)	.831(21.1)

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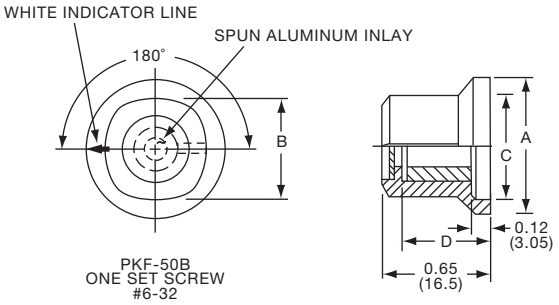
USA: 1-800-522-6752
Canada: 1-905-470-4425
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Knobs, Molded Phenolic

PKF SERIES



PKF50B1/8



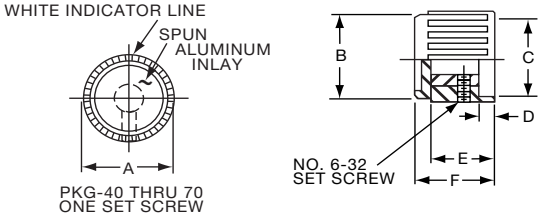
Plain Quadrate with Indicator Line & Arrow

Tyco Electronics	Alcoswitch	A	B	C	D
5-1437624-5	PKF50B1/8	.670(17.0)	.454(11.53)	.570(14.48)	.520(13.2)

PKG SERIES



PKG40B1/8



Ribbed with Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
5-1437624-9	*PKG40B1/8	.437(11.1)	.410(10.4)	.304(7.72)	.079(2.00)	.385(9.78)	.472(12.0)
6-1437624-1	PKG50B1/8	.551(14.0)	.500(12.7)	.442(10.7)	.056(1.42)	.395(10.03)	.512(13.0)
6-1437624-0	PKG50B1/4	.551(14.0)	.500(12.7)	.442(10.7)	.056(1.42)	.395(10.03)	.512(13.0)

*Note: Knob uses #4-40 set screw

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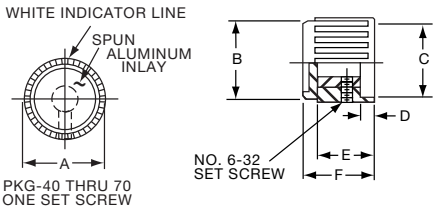
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UK: 44-141-810-8967

Knobs, Molded Phenolic

PKG SERIES



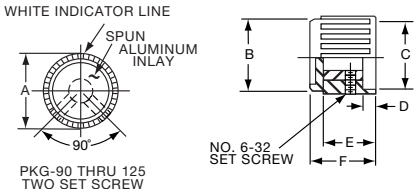


PKG70B1/8

Ribbed with Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
6-1437624-6	PKG60B1/8	.660(16.8)	.615(15.6)	.551(14.0)	.080(2.03)	.430(10.9)	.551(14.0)
6-1437624-5	PKG60B1/4	.660(16.8)	.615(15.6)	.551(14.0)	.080(2.03)	.430(10.9)	.551(14.0)
6-1437624-8	PKG70B1/8	.740(18.8)	.698(17.7)	.591(15.0)	.080(2.03)	.453(11.5)	.559(14.2)
6-1437624-7	PKG70B1/4	.740(18.8)	.698(17.7)	.591(15.0)	.080(2.03)	.453(11.5)	.559(14.2)

PKG SERIES



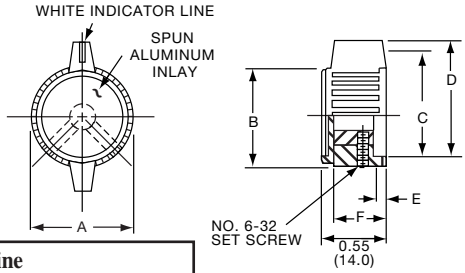


PKG90B1/4

Ribbed with Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
7-1437624-0	PKG90B1/8	.862(21.9)	.811(20.6)	.710(18.0)	.080(2.03)	.450(11.4)	.550(13.97)
6-1437624-9	PKG90B1/4	.862(21.9)	.811(20.6)	.710(18.0)	.080(2.03)	.450(11.4)	.550(13.97)
5-1437624-7	PKG100B1/4	1.055(26.80)	1.01(25.5)	.920(23.4)	.080(2.03)	.430(10.9)	.555(14.1)
5-1437624-8	PKG1255B1/4	1.248(31.70)	1.20(30.4)	.690(17.5)	.080(2.03)	.430(10.9)	.565(14.4)

PKGP SERIES



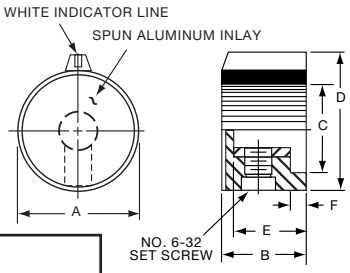


PKGP70B1/4

Ribbed with Bar Pointers and Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
7-1437624-2	PKGP70B1/4	.740(18.8)	.700(17.8)	.590(15.0)	.990(25.2)	.080(2.03)	.460(11.7)
7-1437624-3	PKGP90B1/4	.860(21.8)	.810(20.6)	.700(17.8)	1.28(32.5)	.080(2.03)	.460(11.7)
7-1437624-1	PKGP100B1/4	1.05(26.2)	1.00(25.4)	.900(22.9)	1.62(41.2)	.080(2.03)	.480(12.2)

PKJ SERIES





PKJ50B1/8



PKJ70B1/4

Straight Knurl with Bar Pointers and Indicator Line

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
7-1437624-5	PKJ50B1/8	.500(12.7)	.512(13.0)	.420(10.7)	.577(14.7)	.429(10.9)	.113(2.9)
7-1437624-4	*PKJ50B1/4	.500(12.7)	.512(13.0)	.420(10.7)	.577(14.7)	.429(10.9)	.113(2.9)
7-1437624-6	PKJ60B1/4	.630(16.0)	.530(13.5)	.468(11.9)	.758(19.3)	.440(11.2)	.110(2.8)
7-1437624-7	PKJ70B1/4	.760(19.3)	.555(14.1)	.545(13.8)	.915(23.2)	.450(11.4)	.118(3.0)

*Note: Knob uses #4-40 set screw

K

P Series

Catalog 1308390
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Knobs, Molded Phenolic

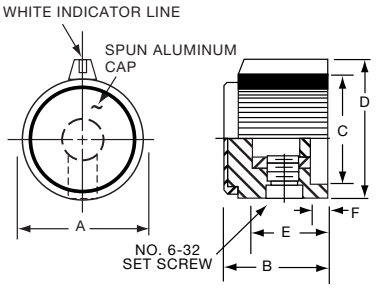
PKJT SERIES



PKJT50B1/4



PKJT70B1/4



Straight Knurl with Bar Pointer & Indicator Line and Aluminum Spin Cap

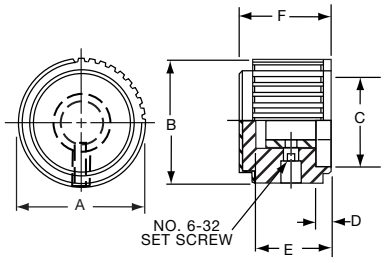
Tyco Electronics	Alcoswitch	A	B	C	D	E	F
7-1437624-9	PKJT50B1/8	.515(13.1)	.585(14.9)	.350(8.89)	.595(15.1)	.414(10.5)	.130(3.30)
7-1437624-8	*PKJT50B1/4	.515(13.1)	.585(14.9)	.350(8.89)	.595(15.1)	.414(10.5)	.130(3.30)
8-1437624-0	PKJT60B1/4	.640(16.3)	.605(15.4)	.470(11.9)	.760(19.3)	.445(11.3)	.118(3.00)
8-1437624-1	PKJT70B1/4	.760(19.3)	.625(15.9)	.550(14.0)	.915(23.2)	.445(11.3)	.118(3.00)

*Knob uses #4-40 set screw.

PKNT SERIES



PKNT60B1/4



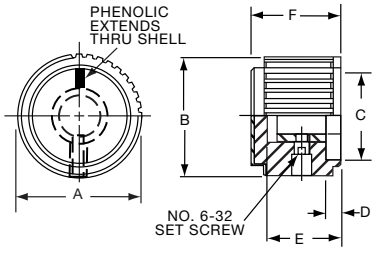
Black Spin Cap with "Diamond Cut" Less Indicator

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
8-1437624-6	PKNT60B1/8	.591(15.0)	.579(14.7)	.394(10.0)	.079(2.01)	.394(10.0)	.472(11.9)
8-1437624-5	PKNT60B1/4	.591(15.0)	.579(14.7)	.394(10.0)	.079(2.01)	.394(10.0)	.472(11.9)
8-1437624-7	PKNT70B1/4	.787(19.9)	.764(19.4)	.571(14.5)	.098(2.49)	.492(12.5)	.591(14.7)
8-1437624-8	PKNT90B1/4	.984(25.0)	.957(24.3)	.748(19.0)	.098(2.49)	.591(15.0)	.689(17.5)

PKN SERIES



PKN60B1/8



Line Indicator on Natural Aluminum Spin Cap

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
8-1437624-2	PKN60B1/8	.591(15.0)	.579(14.7)	.394(10.0)	.079(2.01)	.394(10.0)	.453(11.5)
	PKN60B1/4	.591(15.0)	.579(14.7))	.394(10.0)	.079(2.01)	.394(10.0)	.453(11.5)
8-1437624-3	PKN70B1/4	.787(20.0)	.764(19.4)	.571(14.5)	.098(2.49)	.492(12.5)	.591(15.0)
8-1437624-4	PKN90B1/4	.984(25.0)	.957(24.3)	.748(19.0)	.098(2.49)	.591(15.0)	.689(17.5)

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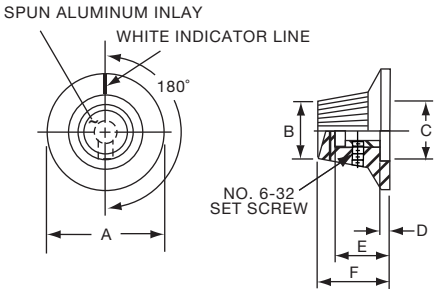
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UK: 44-141-810-8967

Knobs, Molded Phenolic

PKS SERIES





PKS1104B1/4

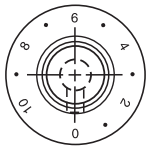
Straight Knurl with Indicator Line on Skirt							
Tyco Electronics	Alcoswitch	A	B	C	D	E	F
9-1437624-5	PKS1104B1/4	1.12(28.5)	.567(14.4)	.620(15.8)	.090(2.29)	.510(12.95)	.670(17.0)

PKS SERIES

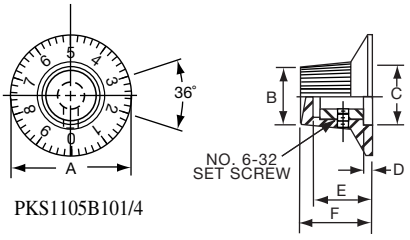
Straight Knurl Aluminum Skirt Has Line or 0-9 Numbers								
Tyco Electronics	Alcoswitch	A	B	C	D	E	F	Marking
9-1437624-4	PKS1103B101/4	1.17(29.6)	.571(14.5)	.620(15.7)	.098(2.49)	.516(13.1)	.670(17.0)	Numbers
9-1437624-7	PKS1106B1/4	1.17(29.6)	.571(14.5)	.618(15.7)	.098(2.49)	.516(13.1)	.670(17.0)	Line
9-1437624-6	PKS1105B101/4	1.17(29.6)	.571(14.5)	.618(15.7)	.098(2.49)	.516(13.1)	.670(17.0)	Numbers



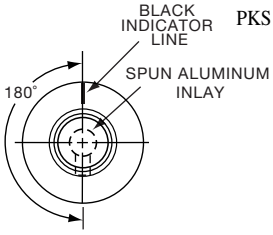
PKS1106B1/4



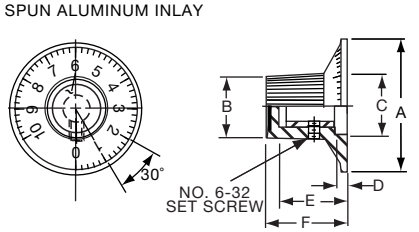
PKS1103B101/4



PKS1105B101/4



PKS SERIES



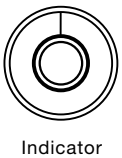
0-10



+5•-5



0-9





PKS1132B51/4

Choice of Indicator Line or 0-9, 0-10, -5+5 Numerals								
Tyco Electronics	Alcoswitch	A	B	C	D	E	F	Marking
1437625-1	PKS1132B51/4	1.18(30.0)	.551(14.0)	.551(14.0)	.118(30.0)	.615(15.62)	.748(19.0)	+5-0-5
1437625-2	PKS1132B91/4	1.18(30.0)	.551(14.0)	.551(14.0)	.118(30.0)	.615(15.62)	.748(19.0)	0-9
9-1437624-9	PKS1132B101/41	1.18(30.0)	.551(14.0)	.551(14.0)	.118(30.0)	.615(15.62)	.748(19.0)	0-10
9-1437624-8	*PKS1132B1/4	1.18(30.0)	.551(14.0)	.551(14.0)	.118(30.0)	.615(15.62)	.748(19.0)	Indicator Line

*1 Set screw 180° from indicator line.



PKS1132B91/4

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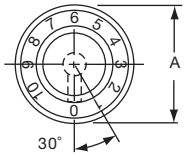
USA: 1-800-522-6752
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UK: 44-141-810-8967

Knobs, Molded Phenolic

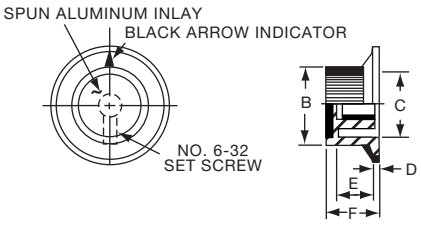
PKS SERIES



PKS90B1/4



PKS90B101/4



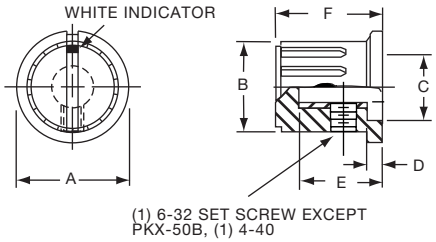
Straight Knurl with Aluminum Skirt Choice of Arrow or 1-10 Numbers

Tyco Electronics	Alcoswitch	A	B	C	D	E	F	Marking
1437625-5	PKS90B1/4	1.42(36.1)	.917(23.3)	.780(19.8)	.065(1.65)	.490(12.5)	.596(15.1)	Arrow
1437625-6	PKS90B101/4	1.42(36.1)	.917(23.3)	.780(19.8)	.065(1.65)	.490(12.5)	.596(15.1)	Numbers

PKX SERIES



PKX50B1/8



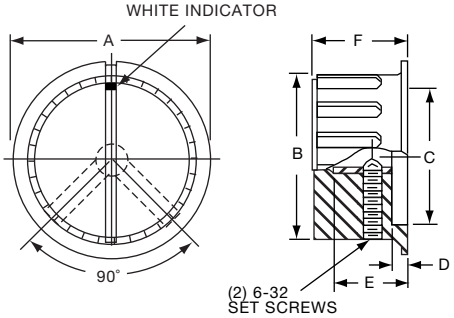
Ribbed Body, Matte Finish with White Square Indicator on Top

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1-1437625-5	PKX50B1/8	.590(15.0)	.472(12.0)	.374(9.49)	.059(1.50)	.463(11.76)	.551(14.0)
1-1437625-4	PKX50B1/4	.590(15.0)	.472(12.0)	.374(9.49)	.059(1.50)	.463(11.76)	.551(14.0)
1-1437625-7	PKX60B1/8	.787(20.0)	.625(15.9)	.472(12.0)	.078(1.98)	.510(13.0)	.598(15.2)
1-1437625-6	PKX60B1/4	.787(20.0)	.625(15.9)	.472(12.0)	.078(1.98)	.510(13.0)	.598(15.2)

PKX SERIES



PKX110B1/4



Ribbed Body, Matte Finish with White Square Indicator on Top

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
1-1437625-1	PKX100B1/4	1.17(29.7)	.970(24.6)	.780(19.81)	.114(2.90)	.570(14.48)	.674(17.12)
1-1437625-2	PKX110B1/4	1.37(34.8)	1.120(28.45)	.940(23.88)	.100(2.54)	.527(13.38)	.705(17.91)
1-1437625-3	PKX130B1/4	1.57(40.0)	1.308(33.22)	1.09(27.6)	.118(3.00)	.623(15.82)	.750(19.05)

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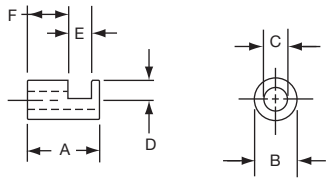
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Knob Accessories

ACCESSORIES





KR1

Shaft Hole Size Adaptors

Tyco Electronics	Alcoswitch	A	B	C	D	E	F
9-1437627-6	KR1 (1/4"TO1/8")	.374(9.50)	.250(6.35)	.128(3.25)	.122(3.10)	.217(5.51)	.122(3.10)
9-1437627-7	KR2 (1/4"TO3/16")	.375(9.53)	.250(6.35)	.190(4.83)	.122(3.10)	.216(5.49)	.123(3.12)
9-1437627-8	KR3 (1/4"TO4MM)	.375(9.53)	.248(6.30)	.161(4.09)	.122(3.10)	.216(5.49)	.123(3.12)

Catalog 1308390
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Engineering Notes

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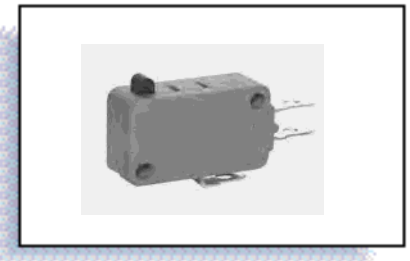
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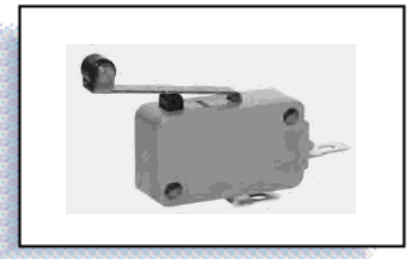
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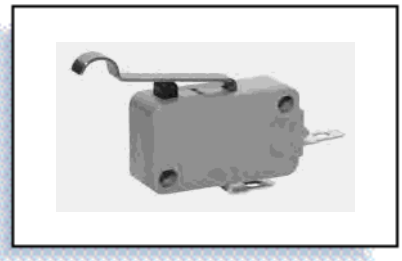
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Miniature Lever - Page L5



Miniature Roller - Page L7



Miniature Simulator Lever - Page L9



Subminiature Pin Plunger - Page L11



Subminiature Lever - Page L11



Subminiature Roller - Page L12



Subminiature Simulator Lever - Page

Microswitches

L

Microswitches

Catalog 1308390
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Miniature Microswitch Introduction

Alcoswitch miniature microswitches are offered with many options to suit most typical applications.

These switches are available in a current range from 16A to .1A. Additional options available throughout the different current ratings include:

Pin Plunger

Short, normal and long lever

Short and normal roller

Simulated lever

SPDT, SPNO and SPNC circuitry

Within the 16A range, in addition to two different terminal options, there are three different actuation force options.

You can count on this offering of switches to be high reliability and low cost to fulfill your basic microswitch needs. Of course if you need something custom, we can offer that also. Contact your Tyco Electronics sales engineer for details.

Technical Information

Performance Information				
Amp Rating		16	5	0.1
Insulation Resistance		Min. 100M ohm		
Contact Resistance		max 15M ohm		Max 50M ohm
Dielectric Strength	Between Non-consecutive terminals	AC 2,000V		
	Between each terminal & earth	AC 2,000V		
Operating Speed		0.2mm/sec - 1,000mm/sec		1mm/sec - 500mm/sec
Max Allowed Mechanical Open/close Frequencies		600 Cycles/min		300 Cycles/min
Shock Resistance (without lever)		300mm/sec^2 (approx 30G)		
Vibration Resistance (without lever)		1.5mm 10 - 55Hz (2Hr)		1.5mm 10 - 20Hz (2Hr)
Electrical Life		100,000 Operations at rated load (max 20 Operations/min)		1,000,000 Operations
Mechanical Life		10,000,000 operations (Max 200 operations/min)		
Safety Approval		UL / CSA / VDE		
Operating Temperature Range		-20°C to +130°C RH85% Max		-30°C to +130°C RH90% Max

See drawings for DC ratings.

Materials			
		5 & 16A	**.1A**
	Case and Cover	P.B.T Resin, UL 94 V-0	P.B.T Resin, UL 94 V-0
	Movable Contactor	Brass, Sliver Plated	Phosphor Bronze
	Guide Plate	Brass, Sliver Plated	Brass, Sliver Plated
	Plate Spring	Beryllium Copper	Beryllium Copper
	Terminal Aid	Brass	Brass
	Contact	Silver Alloy	Gold Alloy
	Common Terminal	Brass, Sliver Plated	Brass, Sliver Plated
	Terminals	Brass, Sliver Plated	Brass
	Actuator	Phenolic Resin, UL 94 V-0	Phenolic Resin, UL 94 V-0
	Lever	Stainless Steel	Stainless Steel

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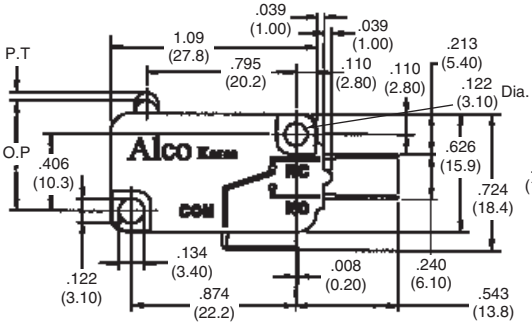
Miniature Pin Plunger

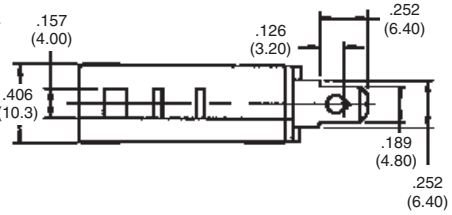
Spade/Solder Type Terminal



Product Facts

- **.187 [4.75] tab with solder hole**
- **Use .187 [4.75] FASTON receptacles or solder wire directly to terminal**





* Refer to Pages L2 for Product Specifications

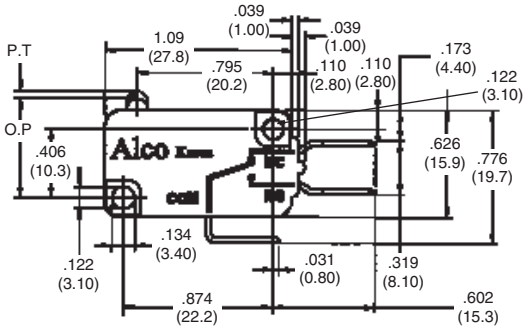
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478603-1
		200g	50g					1478604-1
		300g	70g					1478605-1
	SPNC	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478609-1
		200g	50g					1478610-1
		300g	70g					1478611-1
	SPNO	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478615-1
		200g	50g					1478616-1
		300g	70g					1478617-1
5	SPDT	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478667-1
	SPNC							1478668-1
	SPNO							1478669-1
0.1	SPDT	60g	12g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478670-1
	SPNC							1478671-1
	SPNO							1478672-1

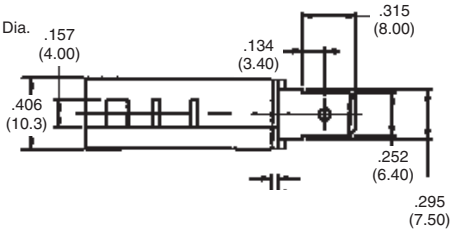
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478606-1
		200g	50g					1478607-1
		300g	70g					1478608-1
	SPNC	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478612-1
		200g	50g					1478613-1
		300g	70g					1478614-1
	SPNO	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.582±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478618-1
		200g	50g					1478619-1
		300g	70g					1478620-1

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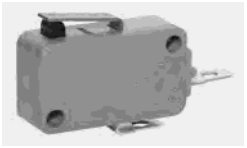
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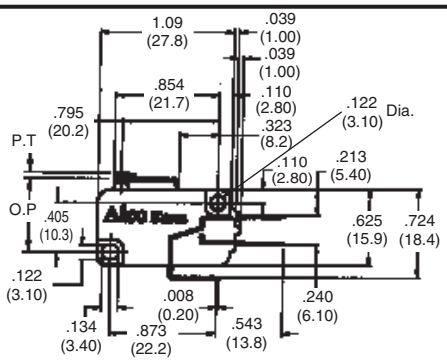
Miniature Short Lever

Spade/Solder Type Terminal

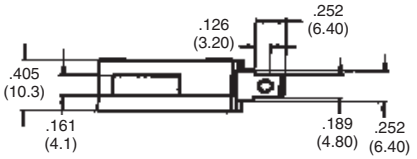


Product Facts

- **.187 [4.75] tab with solder hole**
- **Use .187 [4.75] FASTON receptacles or solder wire directly to terminal**
- **Short lever to increase operating position**

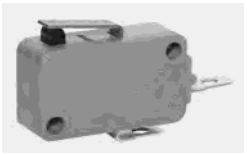


*** Refer to Pages L2 for Product Specifications**



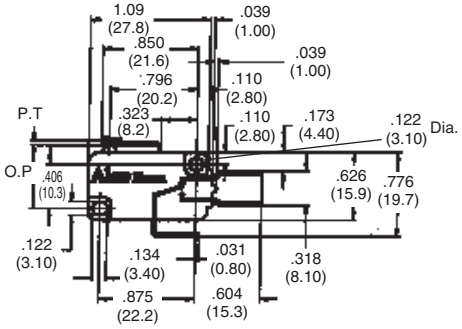
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478603-2
		200g	50g					1478604-2
		330g	70g					1478605-2
	SPNC	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478609-2
		200g	50g					1478610-2
		330g	70g					1478611-2
	SPNO	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478615-2
		200g	50g					1478616-2
		330g	70g					1478617-2
5	SPDT	120g	20g	1.6 m/m [.063]	14.8 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478667-2
	SPNC							1478668-2
	SPNO							1478669-2
0.1	SPDT	60g	12g	1.6 m/m [.063]	14.8 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478670-2
	SPNC							1478671-2
	SPNO							1478672-2

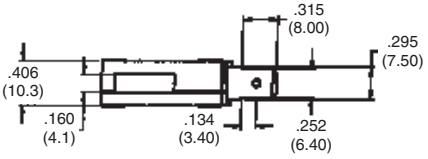
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Short lever to increase operating positions**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	120g	20g	1.6 m/m [.063]	15.4 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478606-2
		200g	50g					1478607-2
		330g	70g					1478608-2
	SPNC	120g	20g	1.6 m/m [.063]	15.4 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478612-2
		200g	50g					1478613-2
		330g	70g					1478614-2
	SPNO	120g	20g	1.6 m/m [.063]	15.4 ±0.4 [.606±.016]	0.8 m/m [.031]	0.4 m/m [.016]	1478618-2
		200g	50g					1478619-2
		330g	70g					1478620-2

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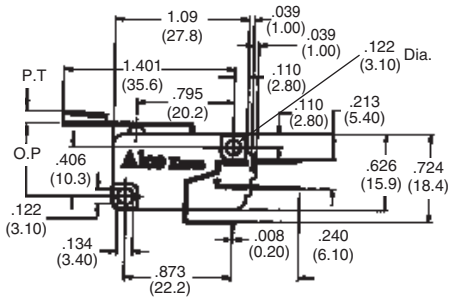
Miniature Normal Lever

Spade/Solder Type Terminal

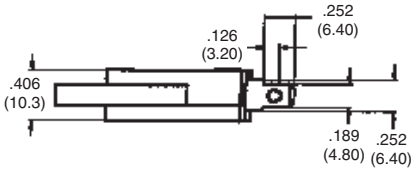


Product Facts

- **.187 [4.75] tab with solder hole**
- **Use .187 [4.75] FASTON receptacles or solder wire directly to terminal**
- **Lever to increase travel and operating position as well as reduce operating force**

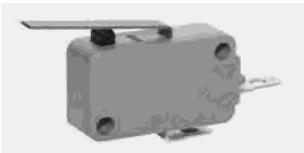


*** Refer to Pages L2 for Product Specifications**



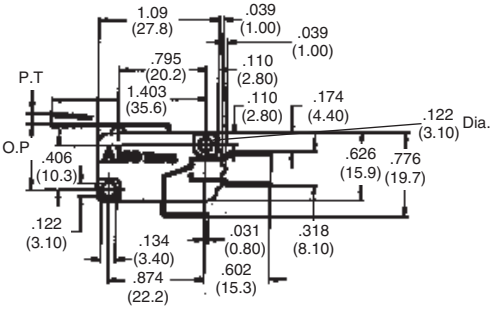
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478603-3
		120g	20g					1478604-3
		180g	30g					1478605-3
	SPNC	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478609-3
		120g	20g					1478610-3
		180g	30g					1478611-3
	SPNO	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478615-3
		120g	20g					1478616-3
		180g	30g					1478617-3
5	SPDT	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478667-3
	SPNC							1478668-3
	SPNO							1478669-3
0.1	SPDT	35g	6g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478670-3
	SPNC							1478671-3
	SPNO							1478672-3

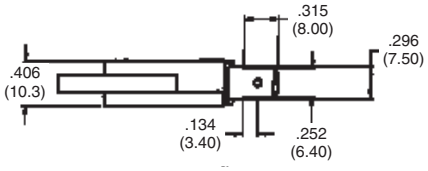
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Lever to increase travel and operating position as well as reduce operating force**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478606-3
		120g	20g					1478607-3
		180g	30g					1478608-3
	SPNC	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478612-3
		120g	20g					1478613-3
		180g	30g					1478614-3
	SPNO	60g	10g	4.0 m/m [.157]	15.4 ±1.4 [.606±.055]	1.3 m/m [.051]	1.2 m/m [.047]	1478618-3
		120g	20g					1478619-3
		180g	30g					1478620-3

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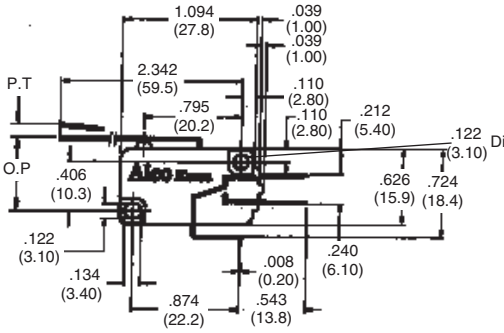
Miniature Long Lever

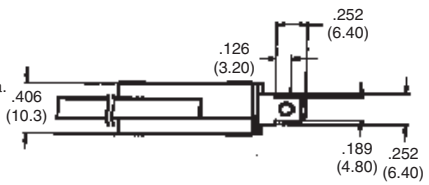
Spade/Solder Type Terminal



Product Facts

- **.187 [4.75] tab with solder holes**
- **Use .187 [4.75] FASTON receptacles or solder wire directly to terminal**
- **Long lever to increase travel and reduce operating force**





*** Refer to Pages L2 for Product Specifications**

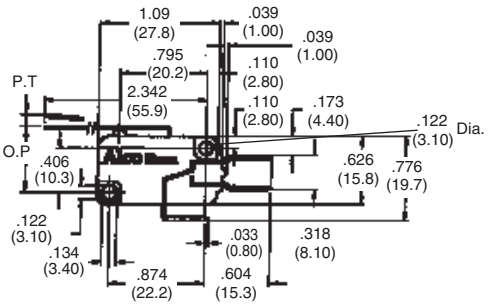
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478603-4
		60g	10g					1478604-4
		90g	15g					1478605-4
	SPNC	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478609-4
		60g	10g					1478610-4
		90g	15g					1478611-4
	SPNO	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478615-4
		60g	10g					1478616-4
		90g	15g					1478617-4
5	SPDT	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478667-4
	SPNC							1478668-4
	SPNO							1478669-4
0.1	SPDT	15g	3g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478670-4
	SPNC							1478671-4
	SPNO							1478672-4

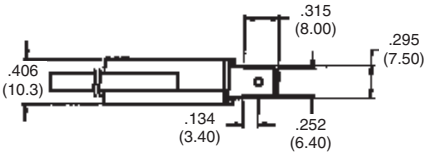
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Long lever to increase travel and reduce operating force**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478606-4
		60g	10g					1478607-4
		90g	15g					1478608-4
	SPNC	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478612-4
		60g	10g					1478613-4
		90g	15g					1478614-4
	SPNO	30g	5g	7.5 m/m [.295]	15.4 ±3.0 [.606±.118]	2.6 m/m [.102]	2.4 m/m [.094]	1478618-4
		60g	10g					1478619-4
		90g	15g					1478620-4

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Miniature Short Roller

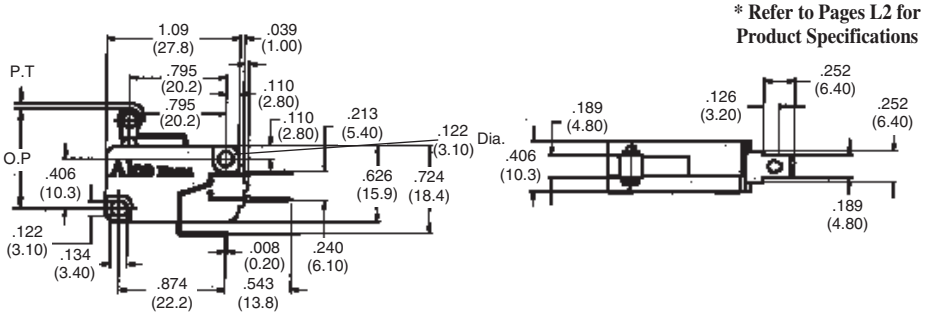
Spade/Solder Type Terminal



Product Facts

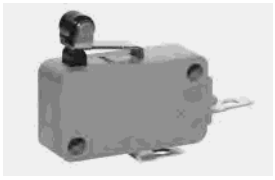
- **.187 [4.75] tab with solder holes**
- **Use .187 [4.75] FASTON receptacles or solder wire directly to terminal**
- **Short roller to increase operating force and position**

* Refer to Pages L2 for Product Specifications



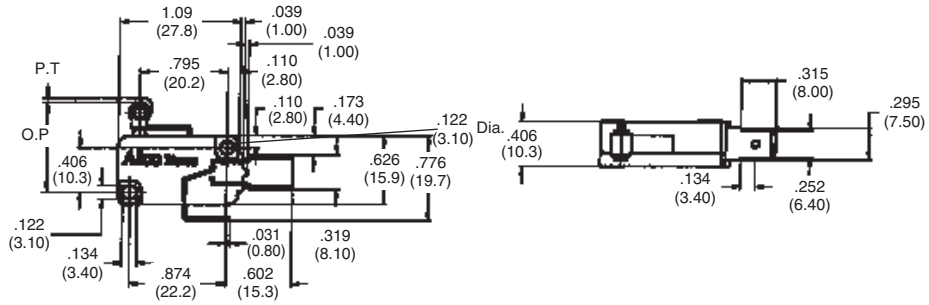
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478603-5
		240g	50g					1478604-5
		350g	70g					1478605-5
	SPNC	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478609-5
		240g	50g					1478610-5
		350g	70g					1478611-5
	SPNO	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478615-5
		240g	50g					1478616-5
		350g	70g					1478617-5
5	SPDT	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478667-5
	SPNC							1478668-5
	SPNO							1478669-5
0.1	SPDT	60g	12g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478670-5
	SPNC							1478671-5
	SPNO							1478672-5

Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Short roller to increase operating force and position**



AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478606-5
		240g	50g					1478607-5
		350g	70g					1478608-5
	SPNC	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478612-5
		240g	50g					1478613-5
		350g	70g					1478614-5
	SPNO	140g	20g	1.6 m/m [.063]	20.7 ±0.8 [.815±.003]	0.8 m/m [.031]	0.4 m/m [.016]	1478618-5
		240g	50g					1478619-5
		350g	70g					1478620-5

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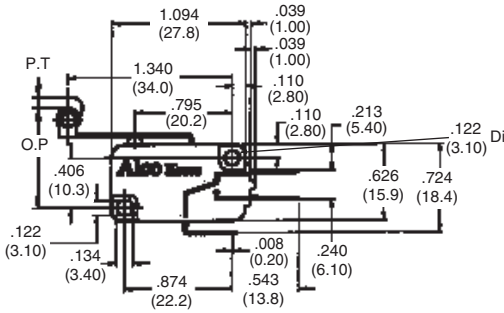
Miniature Normal Roller

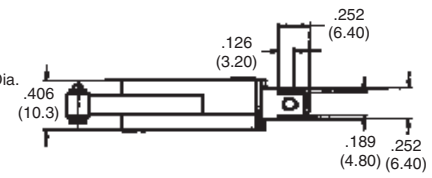
Spade/Solder Type Terminal



Product Facts

- **.187 [4.75] tab with solder hole**
- **Use with .187 [4.75] FASTON receptacles or solder directly to terminal**
- **Roller to increase travel and operating position as well as reduce operating force**

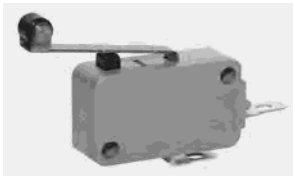




*** Refer to Pages L2 for Product Specifications**

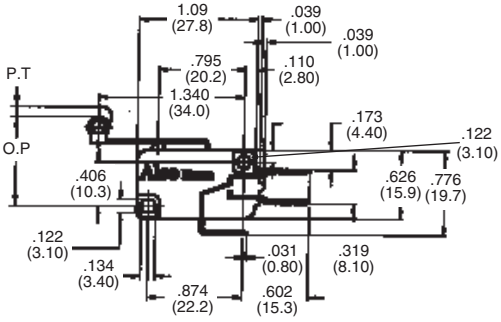
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478603-6
		120g	20g					1478604-6
		180g	30g					1478605-6
	SPNC	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478609-6
		120g	20g					1478610-6
		180g	30g					1478611-6
	SPNO	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478615-6
		120g	20g					1478616-6
		180g	30g					1478617-6
5	SPDT	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478667-6
	SPNC							1478668-6
	SPNO							1478669-6
0.1	SPDT	35g	6g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478670-6
	SPNC							1478671-6
	SPNO							1478672-6

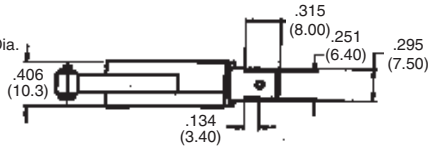
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Roller to increase travel and operating position as well as reduce operating force**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478606-6
		120g	20g					1478607-6
		180g	30g					1478608-6
	SPNC	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478612-6
		120g	20g					1478613-6
		180g	30g					1478614-6
	SPNO	60g	10g	4.0 m/m [.157]	20.7 ±1.6 [.815±.063]	1.3 m/m [.051]	1.2 m/m [.047]	1478618-6
		120g	20g					1478619-6
		180g	30g					1478620-6

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Miniature Simulator Lever

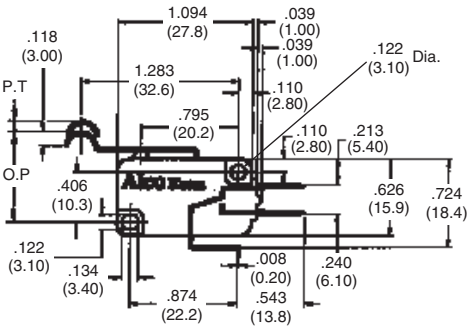
Spade/Solder Type Terminal

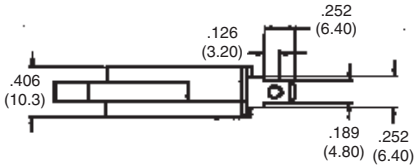


Product Facts

- **.187 [4.75] tab with solder hole**
- **Use .187 [4.75] FASTON receptacles or solder directly to terminal**
- **Simulator lever for operating position between a roller and a lever**

* Refer to Pages L2 for Product Specifications





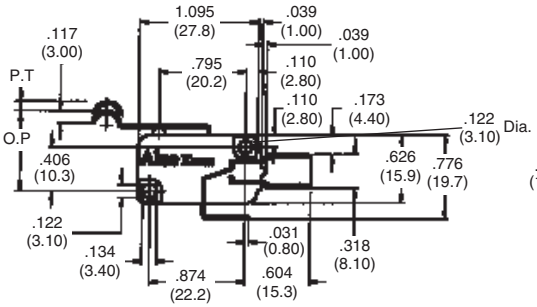
AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478603-7
		120g	20g					1478604-7
		180g	30g					1478605-7
	SPNC	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478609-7
		120g	20g					1478610-7
		180g	30g					1478611-7
	SPNO	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478615-7
		120g	20g					1478616-7
		180g	30g					1478617-7
5	SPDT	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478667-7
	SPNC							1478668-7
	SPNO							1478669-7
0.1	SPDT	35g	6g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478670-7
	SPNC							1478671-7
	SPNO							1478672-7

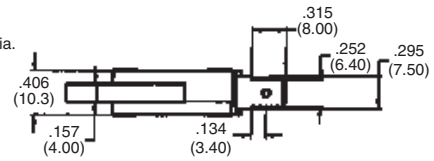
Spade Type Terminal



Product Facts

- **.250 [6.35] tab for use with .250 [6.35] FASTON receptacles**
- **Simulator lever for operating position between a roller and a lever**





AMP	Switch Position	Operating Force	Releasing Force	Pre Travel (P.T.)	Operating Position	Over Travel	Movement Differential	Part Number
16	SPDT	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478606-7
		120g	20g					1478607-7
		180g	30g					1478608-7
	SPNC	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478612-7
		120g	20g					1478613-7
		180g	30g					1478614-7
	SPNO	60g	10g	4.0 m/m [.157]	18.6 ±1.5 [.732±.059]	1.3 m/m [.051]	1.2 m/m [.047]	1478618-7
		120g	20g					1478619-7
		180g	30g					1478620-7

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Subminiature Microswitches

Alcoswitch subminiature micro switches are available with many options to fit applications with limited space and a 5 Amp or less current draw.

With the options of levers, rollers and simulator, a variety of operating forces, operating positions and travel distances are available to fit most applications. In addition to tabs and solder terminals, this line is available with PC terminals to mount directly to your PC board.

If this offering doesn't fit your application needs, contact the product information center or your Tyco sales person to discuss a custom product.

Technical Information

Performance Information			
Amp Rating		5	
Insulation Resistance		Min. 100M ohm (at 500V DC)	
Contact Resistance		Max 50M ohm (by voltage drop, 1A 6V-8V DC)	
Dielectric Strength	Between terminals	1000Vrms for 1 min	
	Between terminals & other exposed metal parts	1500Vrms for 1 min	
	Between terminals and earth	1500Vrms for 1 min	
Temperature Rise		30°C Max	
Terminal Strength		6kg pulling and push torque shall be applied for 1min	
Allowable Operating Speed		0.1 to 1,000 mm/sec	
Shock Resistance (without lever)		Min 30G (O.F.100g. 150g)	Contact opening max 1msec
		Min 15G (O.F. 50g)	—
Vibration Resistance (without lever)		9G, 10 to 55 Hz at double amplitude of 1.5mm (contact opening, max 1msec)	
Electrical Life		50,000 at 20cpm	
Mechanical Life		500,000 at 60cpm	
Mechanical Repeatability		300 cpm	
Safety Approval		UL / CSA	
Ambient Temperature		-25°C to +85°C	

Materials	
Case and Cover	P.B.T Resin, UL94 V-0
	PA 66, UL94 V-0
Movable Contactor	Beryllium Copper, with or without silver plating
Button	Phenolic Resin, UL94 HB or UL94V0
Common Terminal	Brass, sliver plated
Terminal (NC)	Brass
Terminal (NO)	Brass
Movable Contact	Silver alloy
Fixed Contact	Silver alloy, silver plated
Lever	Stainless Steel

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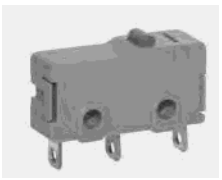
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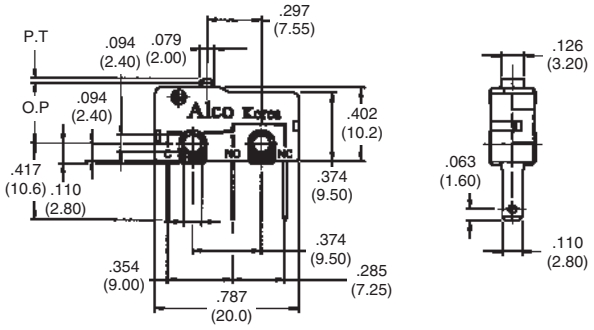
South America: 55-11-3611-1514
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Subminiature Pin Plunger

Pin Plunger



* Refer to Pages L10 for Product Specifications



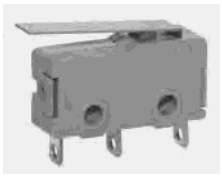
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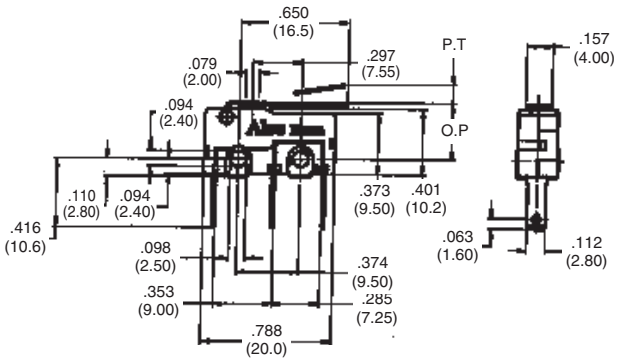
- Available in tab, PCB or solder terminals
- Versatile pin plunger option

Terminal Style	AMP	Switch Position	Operating Force	Releasing Force	Pre Travel	Operating Position	Over Travel	Movement Differential	Part Number
TAB	5	SPDT	150g	20g	0.6 m/m [.024]	8.4 ±0.4 [.331±.016]	0.3 m/m [.012]	0.2 m/m [.008]	1478600-1
PCB									1478601-1
Solder									1478602-1

Subminiature Normal Lever

Normal Lever





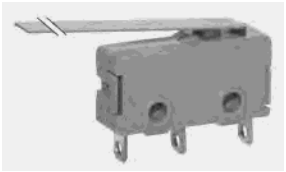
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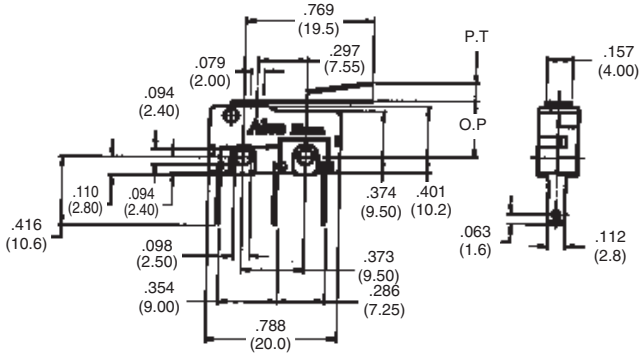
- Available in tab, PCB or solder terminals
- Lever length to reduce actuation force and increase travel

Terminal Style	AMP	Switch Position	Operating Force	Releasing Force	Pre Travel	Operating Position	Over Travel	Movement Differential	Part Number
TAB	5	SPDT	55g	3.5g	2.8 m/m [.110]	8.8 ±0.8 [.346±.031]	1.2 m/m [.047]	0.8 m/m [.031]	1478600-2
PCB									1478601-2
Solder									1478602-2

Subminiature Long Lever

Long Lever





Product Facts

- Available in tab, PCB or solder terminals
- Long lever for increased travel and reduced force

Terminal Style	AMP	Switch Position	Operating Force	Releasing Force	Pre Travel	Operating Position	Over Travel	Movement Differential	Part Number
TAB	5	SPDT	45g	3.0g	3.5 m/m [.138]	8.8 ±1.2 [.346±.047]	1.6 m/m [.063]	1.0 m/m [.039]	1478600-3
PCB									1478601-3
Solder									1478602-3

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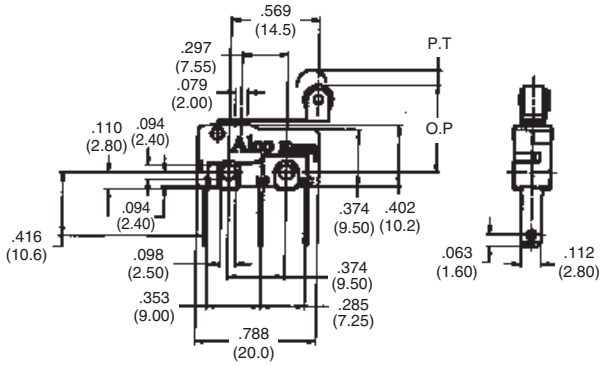
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Subminiature Roller Lever

Roller Lever





*** Refer to Pages L10 for Product Specifications**

Product Facts

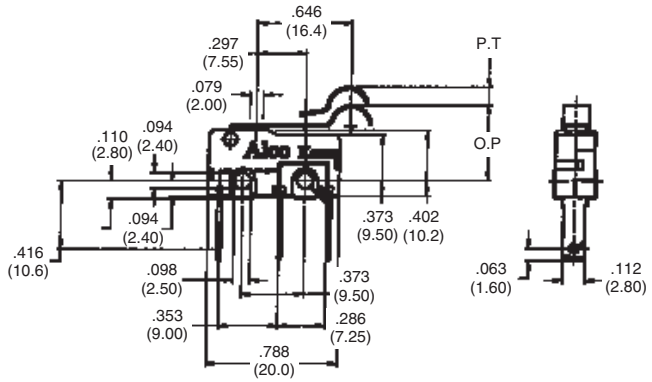
- **Available in tab, PCB or solder terminals**
- **Roller lever for increased operating position**

Terminal Style	AMP	Switch Position	Operating Force	Releasing Force	Pre Travel	Operating Position	Over Travel	Movement Differential	Part Number
TAB	5	SPDT	60g	4.0g	2.5 m/m [.098]	14.5 ±0.8 [.570±.031]	0.8 m/m [.031]	0.5 m/m [.020]	1478600-4
PCB									1478601-4
Solder									1478602-4

Subminiature Simulator Lever

Simulator Lever





Product Facts

- **Available in tab, PCB, or solder terminals**
- **Simulator lever for operating position between a roller and a lever**

Terminal Style	AMP	Switch Position	Operating Force	Releasing Force	Pre Travel	Operating Position	Over Travel	Movement Differential	Part Number
TAB	5	SPDT	40g	3.0g	3.6 m/m [.142]	11.6 ±0.8 [.457±.031]	0.8 m/m [.031]	0.6 m/m [.024]	1478600-5
PCB									1478601-5
Solder									1478602-5

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Engineering Notes

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Soldering Process Recommendation Guide

The majority of customers utilizing miniature or sub-miniature switches in the industry today have a great concern about the switches' capabilities during their soldering and cleaning cycles. This concern centers around the introduction of contaminates into the switch contact area which could cause the switch to experience various failure modes either immediately or during the life of the switch.

These failure modes can show in a number of manners. The following are just a few examples: high contact resistance, open contacts, low dielectric strength, and high actuation forces causing use-related malfunctions. Since most fluxes become active with the introduction of high temperatures used in all soldering techniques, the switch must either prevent these fluxes from entering into its contact area or allow cleaning techniques to carry flux particles out. It must be understood that switch contamination can occur during any procedure: from hand soldering to Surface Mount systems for solder reflow.

We at Alcoswitch offer a wide range of switches to handle any soldering operations. However, certain soldering conditions will not apply to all switches. The following conditions and charts should help assist you in the soldering of our switches in your application. If you need additional information, please contact the factory.

SOLDERING TYPES

A. WAVE SOLDERING

Top & Bottom board preheat: 200°F (93°C) for approximately 3 to 4 minutes.
Solder Temperature & Dwell Time: 500°F (260°C) for approximately 3 to 5 seconds.

B. HAND SOLDERING

1. 500°F-600°F (260°C-316°C) Utilizing a controlled 40 watt iron for 3 to 5 seconds maximum.
2. 500°F (260°C) Utilizing a controlled 30 watt iron for 10 seconds maximum.

C. DIP SOLDERING

1. Solder Temperature & Dwell Time: 500°F (260°C) for 3-5 seconds maximum.
2. Mounted on PCB .060" thick - Solder Temperature & Dwell Time: 500°F (260°C) for 10 seconds maximum.

D. SURFACE MOUNT

Tyco Electronics performs testing of their Surface Mount switches in accordance with EIA-364-56, Resistance to Soldering Heat, test procedures 4 (Vapor Phase) and Procedure 5 (Infrared).

CLEANING TYPES

A. Solvent Wash (1.1.1 Trichlorethylene, T.M.S., T.M.C.)
B. Vapor Degreasing
C. Solvent Immersion
D. Aqueous Cleaning

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Soldering Process Recommendation Guide

SWITCH SERIES	SOLDERING TYPE			SURFACE MOUNT PROCESS		CLEANING PROCESSES			
	Wave	Hand	Dip*	Convection I.R.	Vapor Phase	Solvent Wash	Vapor Degrease	Solvent Immerse	Aqueous Clean
AP, AT, AS SERIES	X	X	X			X			X
ALE, ATLE, ATE, APBE	X	X	X			X	X	X	X
ASE & F	X	X	X	X	X	X	X	X	X
COMMAND SERIES, PC	X	X							
COMMAND SERIES, LUGS		X							
CST/CSS SERIES	X	X	X			X	X	X	X
DIP ROT.: DR, RR & RA/C	X	X	X			X	X		
DIP ROT: DRDE SERIES	X	X	X			X	X	X	X
DIPS: AD, AR, AA/C, ATT	X	X	X	X	X	X	X	X	X
DIPS: GD	X	X	X	X		X	X	X	X
DIPS: DTS WITH TAPE	X	X	X			X	X	X	X
DIPS: DTS, DYS W/O TAPE		X	X			X			
DIPS: S SERIES SIPS	X	X	X	X	X	X	X	X	X
DIPS: DPU WITHOUT TAPE		X	X						
FSM SERIES (Unsealed)	X	X							
FSM SERIES (Sealed)	X	X				X	X	X	X
FSM SMT TYPE (Unsealed)				X					
FSM SMT TYPE (Sealed)				X	X	X	X	X	X
GEMINI: A SERIES	X	X	X			X			
GEMINI: AE SERIES	X	X	X			X	X	X	X
GREEN SERIES: ALL MT VERSIONS		X	X			X	X		
GREEN SERIES: ALL MT VERSIONS PC	X	X	X			X			
GREEN SERIES: MPA-6, MPG, MPN, MPE		X	X			X	X		
GREEN SERIES: MTE		X	X			X	X		
MHS SERIES	X	X	X			X	X	X	X
MLL SERIES	X	X		X		X	X	X	X
MMS SERIES		X	X			X	X		
MPA-6 SERIES		X	X			X			
MPB SERIES		X	X			X	X		
MPN SERIES		X	X			X	X		
MPS SERIES		X	X			X	X		
MRD SERIES	X	X	X	X		X	X	X	X
MRJ SERIES	X	X	X			X			
MRJE/MRJB SERIES	X	X	X			X	X	X	X

M

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Soldering Process Recommendation Guide

SWITCH SERIES	SOLDERING TYPE			SURFACE MOUNT PROCESS		CLEANING PROCESSES			
	Wave	Hand	Dip*	Convection I.R.	Vapor Phase	Solvent Wash	Vapor Degrease	Solvent Immerse	Aqueous Clean
MSP-3/MSPS SERIES		X	X						
MSP-5 SERIES		X	X			X	X		
MSPF SERIES		X	X			X	X		
MSPM SERIES		X	X			X	X		
MSS SERIES	X	X	X			X	X	X	X
MSSA SERIES	X	X	X			X	X	X	X
MSSA-01 & 04	X	X	X			X	X		
PUSHWHEELS, CARD EDGE		X							
PUSHWHEELS, PC PINS	X	X	X						
SDS SERIES	X	X	X			X	X	X	X
SE SERIES	X	X	X			X	X	X	X
SL SERIES	X	X	X			X	X		
SLS/SLSA SERIES	X	X	X			X	X		
SSA/SSJ SERIES	X		X			X			
SSB SERIES	X	X	X			X	X		
STS SERIES	X	X	X			X	X	X	X
SWK SERIES		X							
TP SERIES: ALL PC	X								
TP SERIES: TP-ES	X	X	X			X	X	X	X
TP SERIES:TPC, TPD, TPF, TP-N		X	X			X	X		
TRD	X	X	X			X			
TRD W/L.E.D.		X	X						
TSS-PC, TSS-RA	X	X				X			
TSP, TST	X		X	X	X	X	X	X	X
TT ALL PC	X	X				X			
TT-ES, TTE-ES	X	X	X			X	X	X	X
TT, TTE, TTN-WIRE LUG		X	X			X			

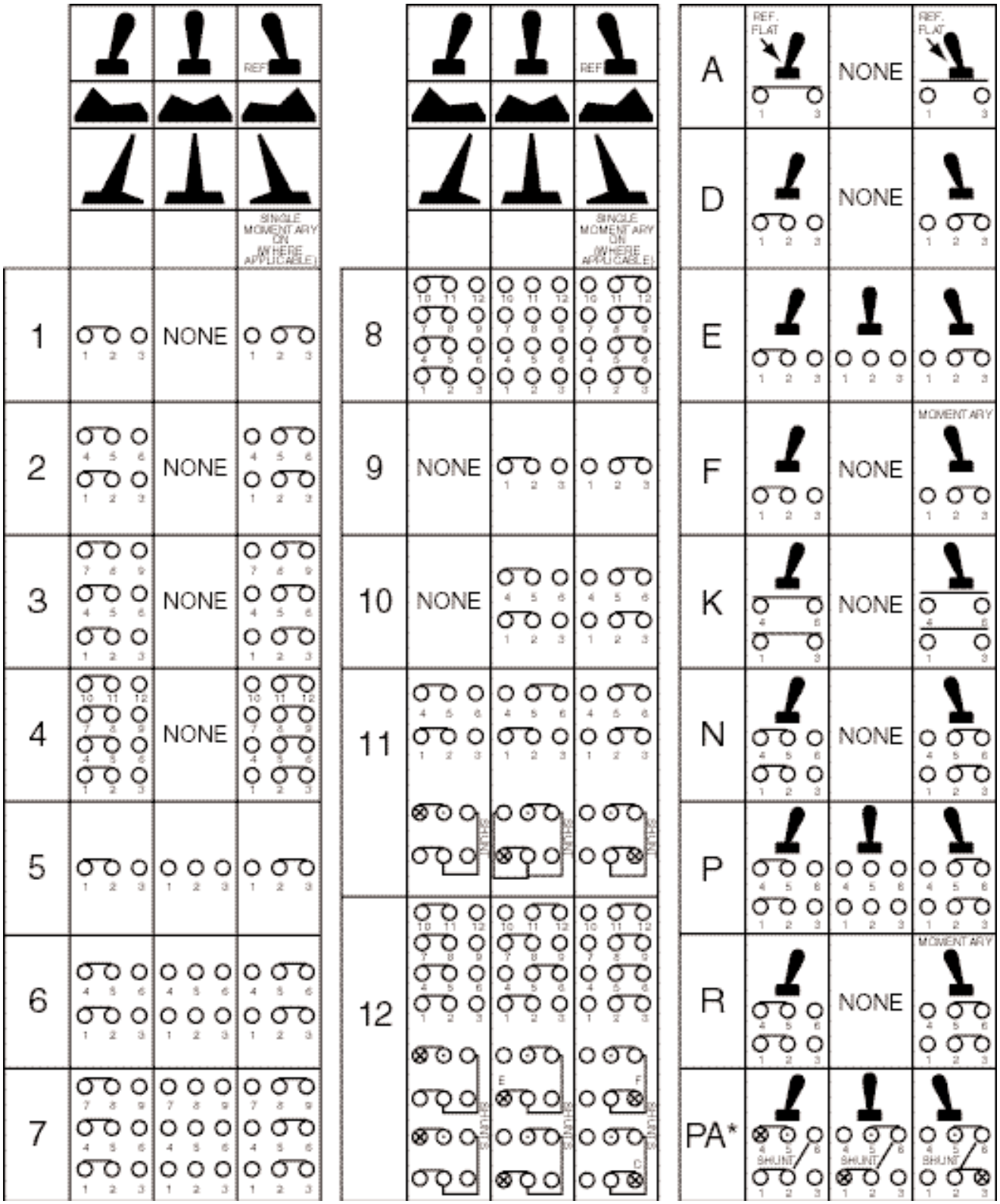
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Actuation Code Chart Toggles, Rockers and Paddles



Note: Three throw function achieved with external jumpers installed by customer.

⊙ In (Common)

⊗ Out

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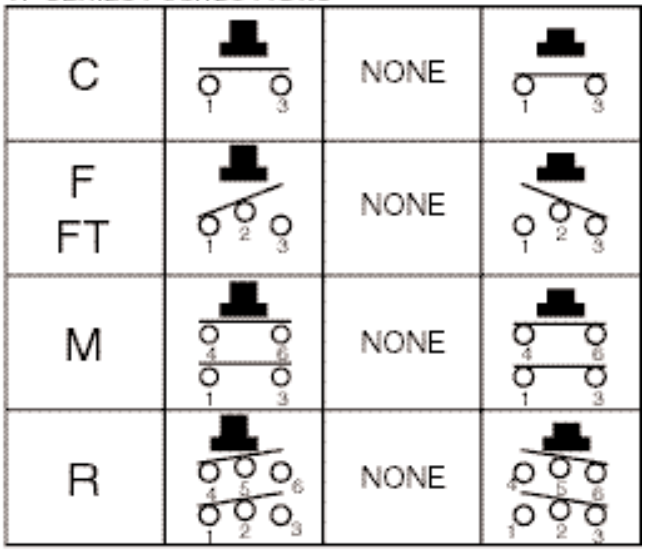
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Actuation Code Chart Pushbuttons and Slides

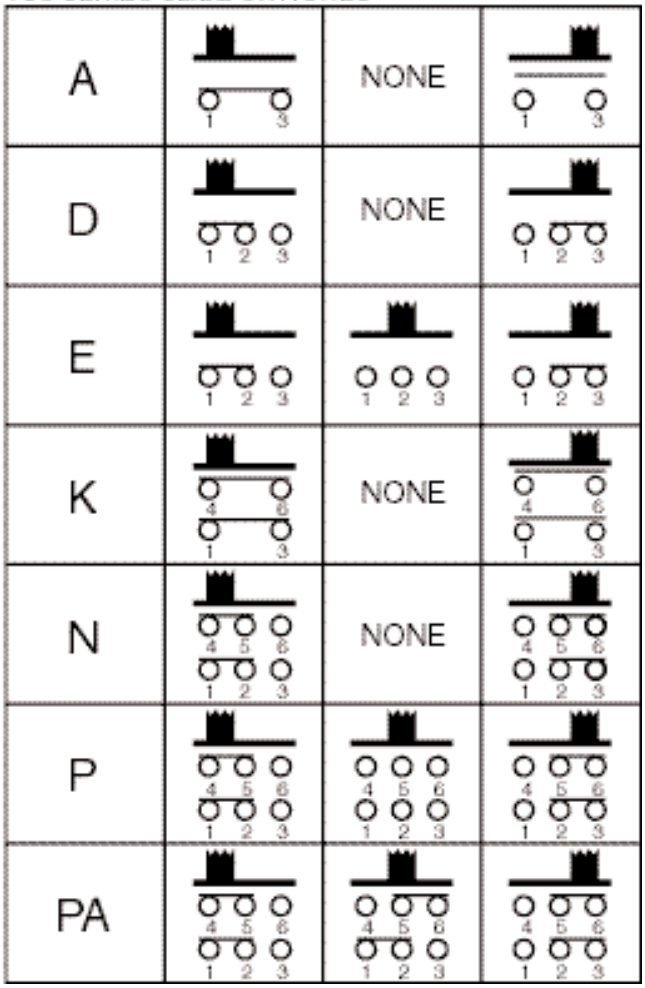
The following CODE CHARTS show schematically, the electrical contact closures of a switch relative to the actuator position. All diagrams represent a TOP view of the switch with the ALCO imprint facing and bushing slot, if any, pointing left. Terminal numbers are for reference only and may not appear on switches.

Code numbers are found throughout the catalog alongside part numbers. The same schematic may show either maintained or momentary action in some cases; momentary closures are indicated by the symbol (ON).

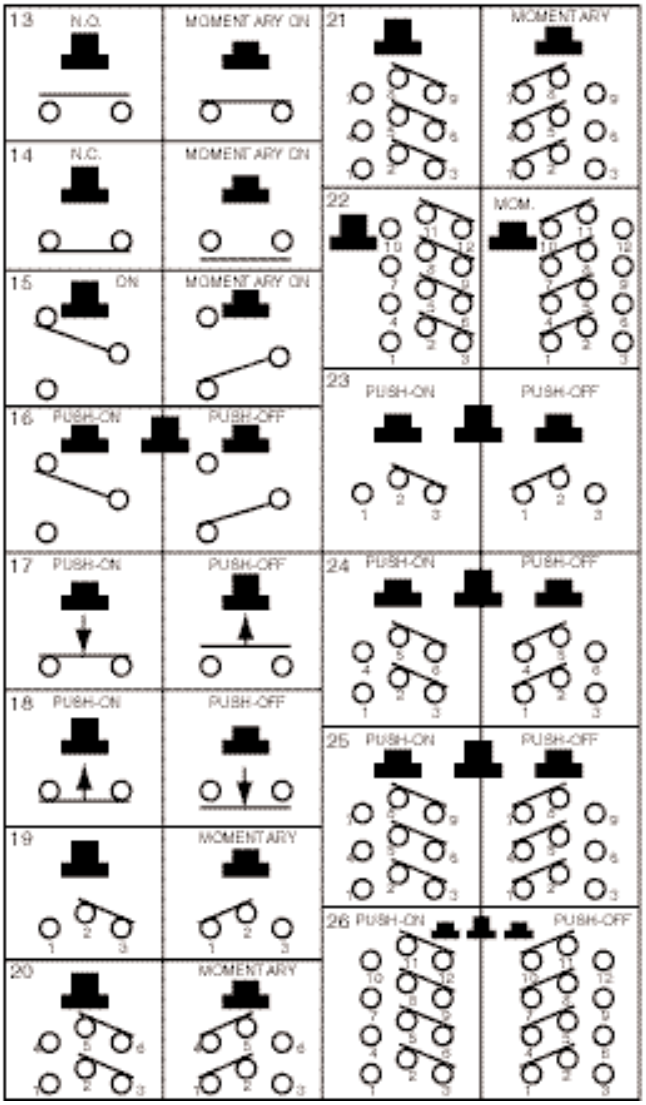
TP SERIES PUSHBUTTONS



TSS SERIES SLIDE SWITCHES



PUSHBUTTONS



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Glossary

- **Actuation Force (Operating Force):** The force required to change the actuator of a switch from one position to the other. Unit of Measure: Slides - lbs., oz. or grams. Toggles and pushbuttons - oz. Rotary products-torque.
- **Actuator:** A movable part of a switch which causes a change in the electrical configurations of the switch.

  Example: Toggle Rocker Slider
  Plunger Paddle Shaft
- **Alternate Action:** See Push-Push.
- **Angle of Throw:** The angle or arc through which an actuator passes during actuation. Typically used to refer to the movement of toggle or rocker actuators. Unit of Measure: Degree.
- **Antistatic:** An antistatic device will withstand a specified potential without conducting between the actuator and any conducting element, usually the terminals or bushing. Unit of Measure: Typical value 15-20 kilovolts DC.
- **Bifurcated Contact:** A wiping movable contact consisting of two spring fingers that grip fixed contacts. Typically found in slide switches. Self-cleaning action. See Wiping Contact.
- **Bobbin Contact:** A movable contact shaped like a thread bobbin that rolls along the stationary contacts. Found only in slide switches.
- **Bounce:** See Contact Bounce.
- **Break-Before-Make (Non-shorting, Break First):** On actuation, the movable contact breaks contact with one fixed contact before making contact with another fixed contact. Contrast with make-before-break. Typical of toggle and pushbutton switches. (BBM)
- **Break First:** See Break-Before-Make.
- **Butt Contact:** A contact mechanism in which the movable contact makes contact with the fixed (stationary) contact without wiping motion between the surfaces. Typical of toggle and pushbutton switches. See Wiping Contact.
- **Capacitive Load:** A load in which the initial current on making (closing) of the contacts is higher than the steady state current on breaking (opening) of the contacts, the current is less than steady state. Current leads voltage in capacitive loads. See Resistive Load, Inductive Load, Power Factor and Inrush.
- **Carrying Current:** The maximum current that can be passed through the already closed contacts of a switch. Contrast with "Contact Rating."
- **Contact (Contact Area):** The metal surfaces that come into physical contact to complete an electrical circuit. These surfaces are found on moveable contacts (see) and terminals (see).
- **Contact Block:** A switching element which is added singly or in groups to an operator (see) to make a complete switch.
- **Contact Bounce (Bounce):** The time during switching in which electrical instability caused by the rebound of the contacts is observed. Unit of Measure: Millisecond.
- **Contact Gap:** The distance between a stationary contact and a moveable contact in the open position.
- **Contact Rating (Switching Rating):** The capacity to switch (connect or interrupt) an electrical load. Unit of Measure: Volts, amps, load characteristic (resistive, inductive, capacitive, power factor). Contrast with non-switching rating.
- **Contact Resistance:** The total resistance of the switch, comprised of the contact interface and terminals. Unit of Measure: Milliohms.
- **Cycles:** The number of times a switch can be actuated from one extreme position to the opposite extreme position and back to the original position.
- **Detent:** A mechanical stop that holds the contacts in a given position after the actuation force is removed or prevents the changing of contact position at less than a specified actuation force.
- **Detent Angle:** The angle or arc between detent positions in rotary switches. Unit of Measure: Degree.
- **Dielectric Strength (Dielectric Withstanding Voltage, DWV, Leakage Resistance, Breakdown Voltage):** The ability of an insulator to withstand a voltage without arcing across its surface. Most often applies to insulator between switch terminals and metal exposed to operator of switch. Unit of Measure: Volts RMS, Volts AC.
- **Dielectric Withstanding Voltage:** See Dielectric Strength.
- **DIP:** Dual-in-Line Package refers to a component with two rows of PC terminals. The terminals are most commonly on a 0.100" pitch with 0.300" between rows.
- **Double-Break Contacts:** A contact mechanism using two sets of contacts to make or break a given circuit. This provides better power handling capacity and longer switch life. Typical of high power industrial switches. See Single-Break Contacts.
- **Dry Circuit (Low Energy, Logic Level):** An application in which power levels do not cause arcing, melting or softening of contacts. Typically requires gold plated contacts for reliable switch operation. Typical Definition: 0.4VA max. @ 20 VDC or peak AC.
- **DWV:** See Dielectric Strength.
- **Electrical Life:** The number of operations at a given electrical load that does not result in a degredation of any electrical or mechanical parameter beyond the standard set by the applicable end-of-life criteria. Unit of Measure: Cycles (on-off operations) (rotations).

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Glossary

- **End of Life Criteria:** Those specifications that a switch must meet at the end of its specified electrical life. Typically contact resistance and/or heat rise of contacts at full rated load at end of life.
- **Environmental Seal:** A seal that totally encapsulates the switch or relay providing a specified level of protection against intrusion of solids, liquids or gases into the body of the device.
- **Fixed Contact (Stationary or Statis Contact):** The non-moving contact. Typically integral to the end of the terminal inside the switch body.
- **Flux:** A material added during soldering to the metal surfaces which on heating prevents oxidation and aids the flowing of the solder.
- **Gas-Tight Contact:** A contact interface (movable to fixed contacts) in which the forces holding the contacts together are high enough to prevent gases from migrating between the members. This prevents static oxidation of the contact and subsequent intermittencies of high contact resistance. Typical forces are 280,000 PSI and higher.
- **Gold Flash:** A plating of gold typically less than 10 microinches (millionths) thick. Used only as a barrier to oxidation or corrosion of terminals to maintain solderability.
- **Heat Rise:** An indirect measurement of contact resistance used by rating agencies. The temperature rise over ambient of a contact set carrying a prescribed current is measured to determine whether it falls within safe limits.
- **Inductive Load:** A load in which the initial current on making (closing) of the contacts is lower than the steady state. On breaking (opening) of the contacts, the current is greater than the steady state. Current lags voltage in inductive loads. Motors are the most common inductive load. See Resistive Load, Capacitive Load, Power Factor.
- **Inrush:** A transitory high-level of current through a contact set on making (closing). A characteristic of capacitive and some resistive loads. The inrush currents can be large and long enough to cause severe degredation of the contacts. See Resistive Load, Capacitive Load, Power Factor.
- **Insert Molding:** In switches and relays used to refer to terminations that are placed in the mold so that plastic is molded around the terminations. The chief benefit is an inherent seal against the intrusion of flux into the body of the device. Therefore no epoxy terminal seal is required.
- **Insulation Resistance:** The resistance between insulated parts measured at a specified DC voltage. Unit of Measure: Megohm.
- **IP:** An industrial specification used in Europe (and worldwide) to indicate the degree of protection provided by a component against accidental contact, penetration of solids or liquids into or through the component. See NEMA.
- **Leakage Barrier:** A ridge or web molded into a switch housing between terminals or contacts to increase the surface distance between them.
- **Leakage Resistance:** Dielectric Strength.
- **Life:** See Electrical Life: Mechanical Life.
- **Logic Level:** Refers to power levels typical of solid state electronic circuits (TTL, CMOS, etc.). For switch selection see Dry Circuit.
- **Low Energy:** See Dry Circuit.
- **Maintained:** A position (throw) of a switch which remains unchanged when actuation force is removed from switch actuator. Contrast with Momentary.
- **Make-Before-Break (Shorting Contact, Make First):** Movable contact makes the next circuit before breaking the first circuit. Typically found in slide switches. Contrast with Break-Before-Make (MBB).
- **Make First:** See Make-Before-Break.
- **Mechanical Life:** The number of operations of a switch without electrical load that does not result in a degredation of parameters beyond the standard set by the applicable end-of-life criteria.
- **Momentary (Spring Return):** A momentary switch position (throw) is held only for duration of force applied to the switch actuator.
- **Movable Contact (Dynamic Contact):** The contact moved by the switch actuator into and away from contact with a fixed contact thus forming the electrical circuits possible for a given device.
- **N.C.:** See Normally Closed.
- **NEMA:** National Electrical Manufacturers Association. A US Standards setting group for switch products most often applied to switches mounted in various enclosures offering specified degrees of protection against intrusion of liquids, dust, corrosive elements, etc. NEMA ratings are common in industrial or outdoor applications. See IP.
- **NO:** See Normally Open.
- **Non-shorting:** See Break-Before-Make.
- **Non-switching Rating:** The power carrying capacity of a switch after contact closure and end of contact bounce. Typically far higher than the contact rating (switching rating) of a switch. Unit of Measure: Volts and Amps.
- **Normally Closed (NC):** Normally closed contacts are closed when switch actuator is in its unactuated position (e.g., the plunger is in the resting position in the case of a pushbutton switch).
- **Normally Open (NO):** Normally open contacts are open when the switch actuator is in its unactuated or resting position.

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Glossary

- **Oil-tight:** A generic term for a panel seal (see) commonly used in industrial settings. Defined by NEMA (see) and IP (see) standards.
- **Operating Force:** See Actuation Force.
- **Operating Temperature:** The range of temperature within which the device may be used. Unit of Measure: Degrees celsius or fahrenheit (C or F).
- **Operator:** A panel mounted mechanical device (pushbutton, selector, keylock, etc.) without contacts to which one or more contact blocks (see) may be added to make a complete switch.
- **Overtravel:** The distance the actuator may move between initial contact position and the extreme mechanical position of the actuator without damage to the switch. See travel. Pretravel. Unit of Measure: Inch. Degree.
- **Panel Seal:** A panel seal provides a defined level of protection against penetration of liquids through which the switch and switch-to-panel interface to the rear of a panel. Unit of Measure: Inches/ft. of water.
- **Pole:** The number of separate circuits that can be active through a switch at any one time. A single pole switch allows one closed circuit at a time. A double pole switch allows two closed circuits, etc.
- **Power Factor (PF):** A measure of the inductive or capacitive character of an electrical load. Unit of Measure: 0 to 1 (e.g. 0.75)
- **Process Seal:** A seal that prevents damage to or contamination of the switch during the specified mechanical process. See wave solderable. Surface Moutable.
- **Push-On/Push-Off:** See Push-Push.
- **Push-Push (Alternative Action, Push-On/Push-Off):** A pushbutton switch style in which the electrical state of the switch is maintained between actuations of the plunger.
- **Quick-Connect Terminals:** Flat tab or blade style terminals designed to accept push-on female wire connectors (instead of soldering). The most popular sizes are: 0.250", 0.110" wide.
- **Resistive load:** A load in which the current and voltage are in phase. See Capacitive Load, Inductive Load, Power Factor, Inrush.
- **Shorting Contact:** See Make-Before-Break.
- **Single Break Contacts:** A contact mechanism using one set of contacts to make or break a given circuit. Typical of electronic or low power switches. See Double-Break Contacts.
- **Splashproof:** See panel Seal.
- **Spring Return:** See Momentary.
- **Storage Temperature:** The range of temperature within which the device may be stored. Typically this is a wider range than operating temperature. Unit of Measure: Degrees celsius or fahrenheit (C or F).
- **Surface Mount Devices:** Components that are compatible with surface mount PC board technology. Holes are not used for component mounting. Component leads are soldered to pads on the surface of the PC boards. For switches typically defined by surface mount terminations (e.g., J-bend, L-bend, butt, etc.) and compatibility with surface mount soldering (e.g., vapor phase reflow, infrared, etc.) and cleaning processes.
- **Tactile Feel (Feedback):** A mechanical signal (typically a "snap" or "click") that indicates contact closure to the operator.
- **Terminal:** The metal portion of the switch, exterior to the body, that is used to connect the switch to an electrical circuit. Examples: PC, wire lug, Turrett, quick-connect, wire-wrap, etc.
- **Throws:** Number of circuits that can be controlled by any one pole of a switch. Example: In a single pole — double throw (SPDT) switch, only one circuit may be completed at a time. However, there are two possible circuits (throws) that can be made.
- **Travel:** The total distance the actuator moves to change electrical position. See Pretravel. Overtravel. Unit of Measure: Inches, degrees.
- **Washable:** Applied to PC board mounted devices indicating compatibility with cleaning processes used after soldering. No degredation of electrical or mechanical parameters occurs.
- **Wave Solderable:** Indicates the device is suitable for the wave soldering and cleaning processes as supplied. See Process Seal.
- **Wiping Contact:** A contact mechanism in which the movable contact with the fixed contact with a wiping motion. Typical to slide and rotary switches.

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Alcoswitch & Tyco Electronics Power Tool Switches Application Worksheet

Required Information

Electrical Considerations:

Voltage of Applications:_____Current of Application:_____

Circuitry Configuration: Number of Poles: _____ Number of Throws: _____

Number of Operations anticipated: _____

Agency Approvals or Listings Desired: _____

Mechanical Considerations

Type of Switch (Actuator Type): q Toggle q Pushbutton q Rotary q Trigger q Other

Switch Function: (On/Off/On) _____ On/Off _____Momentary: _____

Termination: q Thru-Hole (PC) q Surface Mount q Wire Lug q Quick Connect q Other

Sealing Contamination Requirements:_____

Product Processing Considerations

Anticipated Soldering Process: q Hand q Wave q SMT q Other

Required Information For Power Tool Switches Only

Output Characteristics:

Variable Speed, Two Speed, On/Off, etc.: _____Reversing/Non-Reversing: _____

Lock-on, Lock-off, or Neither:_____

Hook-up wire size and configuration (i.e. stranded/solder tinned, fused, terminated, etc.) and retention force requirements (how many pounds pull force and what directions required): _____

Optional Information

Electrical Considerations:

Contact Resistance Requirements: Initial: _____ After Life Cycles: _____

Electrostatic Discharge: (E.S.D.) Requirements: _____

Contact Timing: q Shorting (Make-Before-Break) q Non Shorting (Break-Before-Make)

Other Electrical Considerations: _____

Mechanical Considerations

Actuation Force Requirements: _____

Actuator Travel Distance or Degrees of Throw: _____

Special Plating Requirements: Flammability Rating:_____ Oxygen Index: _____

Special Material Requirements: % Solder Coverage: _____

Marking Required: _____

Desired Product Color Options: _____

Other Mechanical Considerations: _____

Environmental Considerations

Operating Temperature Range: _____

Storage Temperature Range: _____

Chemical Resistance Requirements: _____

Other Environmental Considerations: _____

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South America: 55-11-3611-1514
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USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
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TTE23P8T1/4	1437563-9	C8
TTE41NGPC1	1-1437563-0	C8
TTE41NGWW2T	1-1437563-1	C8
TTE43N8T1/4	1-1437563-2	C8
TTE43N9T1/4	1-1437563-3	C8
TTE43N9T1/4E	1-1437563-4	C8
TTE43P8T1/4	1-1437563-5	C8
V40	1-1437612-3	I8,I9,I14
V40G	1-1437612-4	I8
V50	1-1437612-5	I8,I9,I14
V50D	1-1437612-6	I8
V50G	1-1437612-7	I8
VA0	1-1437612-8	I8,I9,I14
VR0	1-1437612-9	I8,I9,I14

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Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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UK: 44-141-810-8967

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