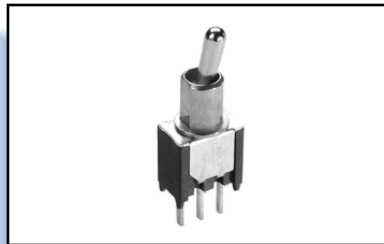
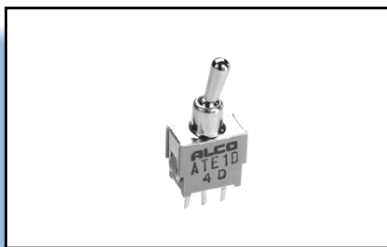


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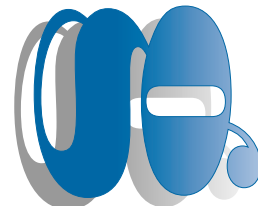
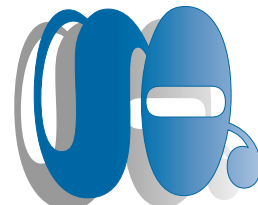
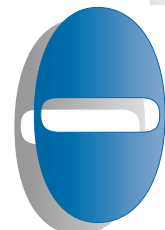
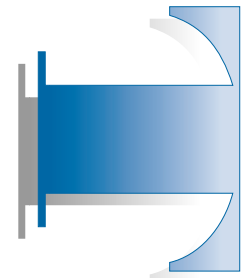
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Toggle Switches

Toggle Switches, Poles, Throws & Functions Selection Guide

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Toggle Switch Selection Guide

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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		

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:

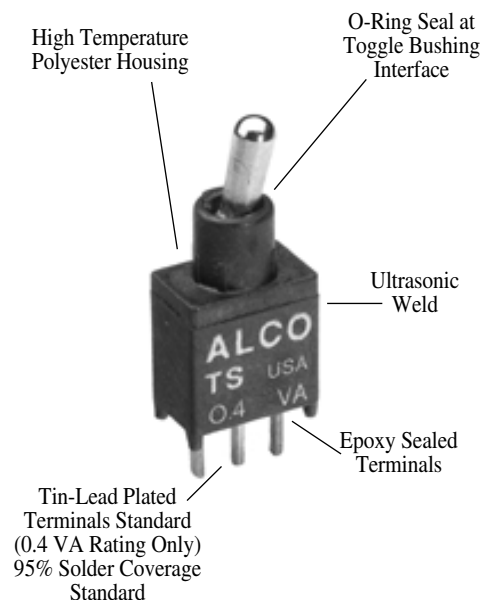
ContactsCopper alloy with gold over nickel plate
 Case MaterialLCP
 Actuator MaterialNickel plated brass
 TerminalsCopper alloy with gold over nickel plating inside, tin plating outside
 Terminal SealEpoxy
 Support BracketTin plated steel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VAC/DC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms 500 VDC min.
 Dielectric Strength1,000 Volt RMS @ sea level
 Actuator Travel22° for E and D function
 18° for F, G function
 Life ExpectancyD 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)

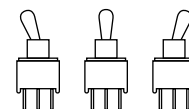


FUNCTION CHART

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

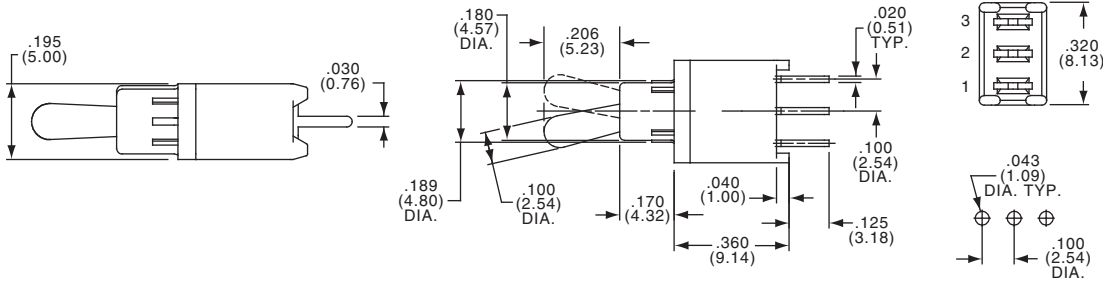
Model	No. of Poles	Contact Rating	Function	Contact Plating	Terminations	Actuator	Bushing (Plain)
TST	1	1	D on none on E on off on F on none(on) G (on) off (on)	G	PC RA VRA SPC SRA SRAB P.C. Right Angle Vertical Right Angle SurfaceMount Surface Mount R.A. SurfaceMount R.A. Butt	1 2 4 .206" .250" .400"	D

APPLICATION NOTE:

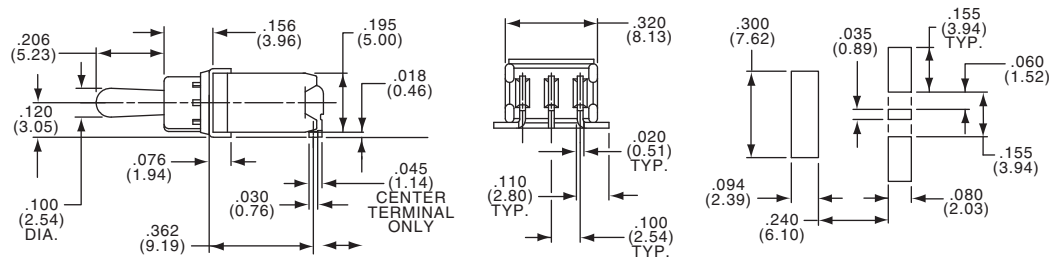
For sealed pushbutton switches, see page D3 - D5

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

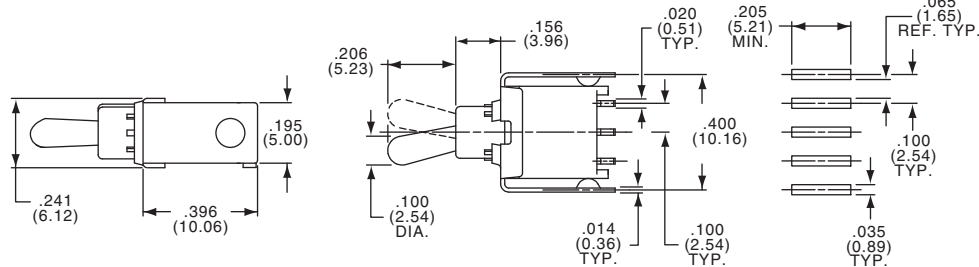
PC MOUNT **PC**



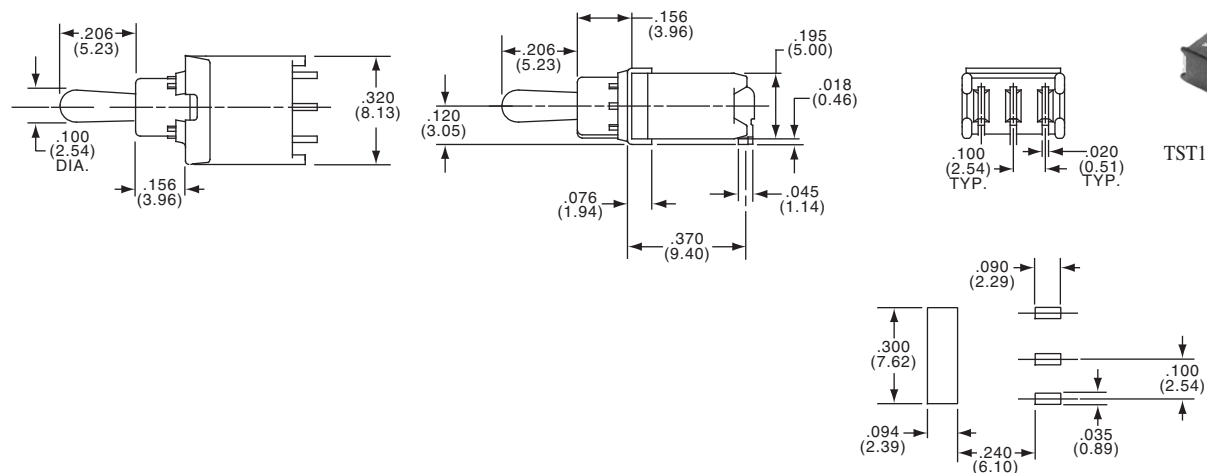
SURFACE MOUNT RIGHT ANGLE "L" BEND **SRA**



SURFACE MOUNT **SPC**



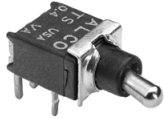
SURFACE MOUNT RIGHT ANGLE BUTT **SRAB**



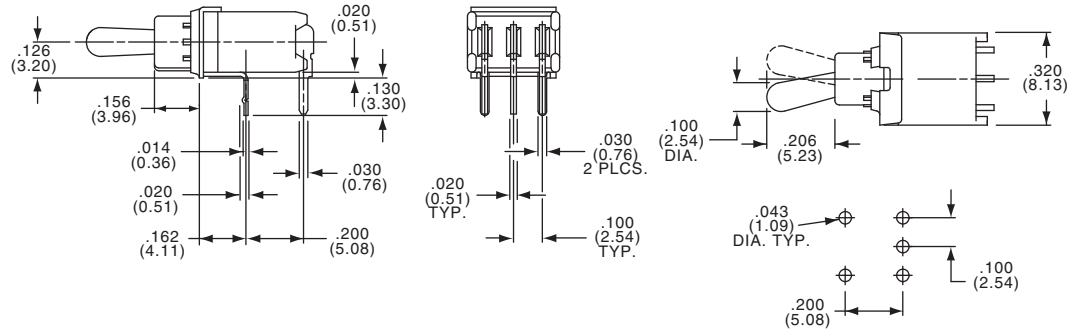
Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

RA

Right Angle



TST11DGRA1D

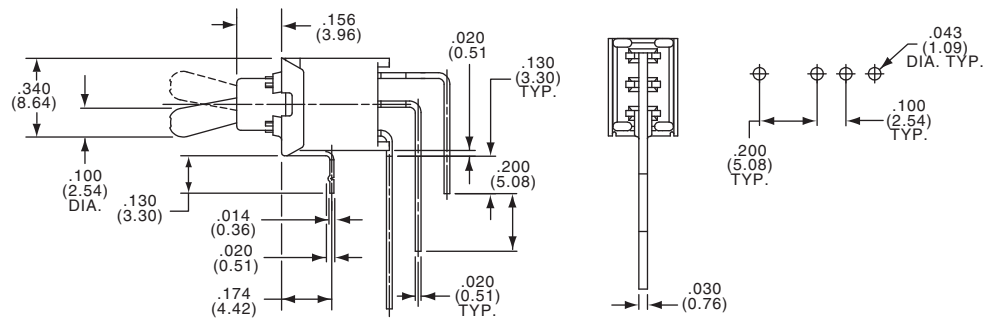


VRA

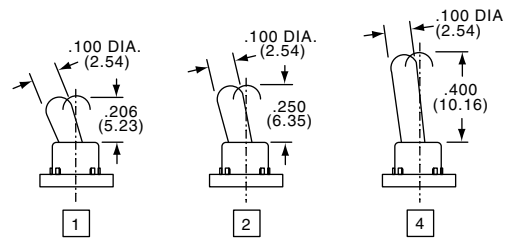
Vertical Right Angle



TST11DGVRA1D



ACTUATORS



Toggle Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

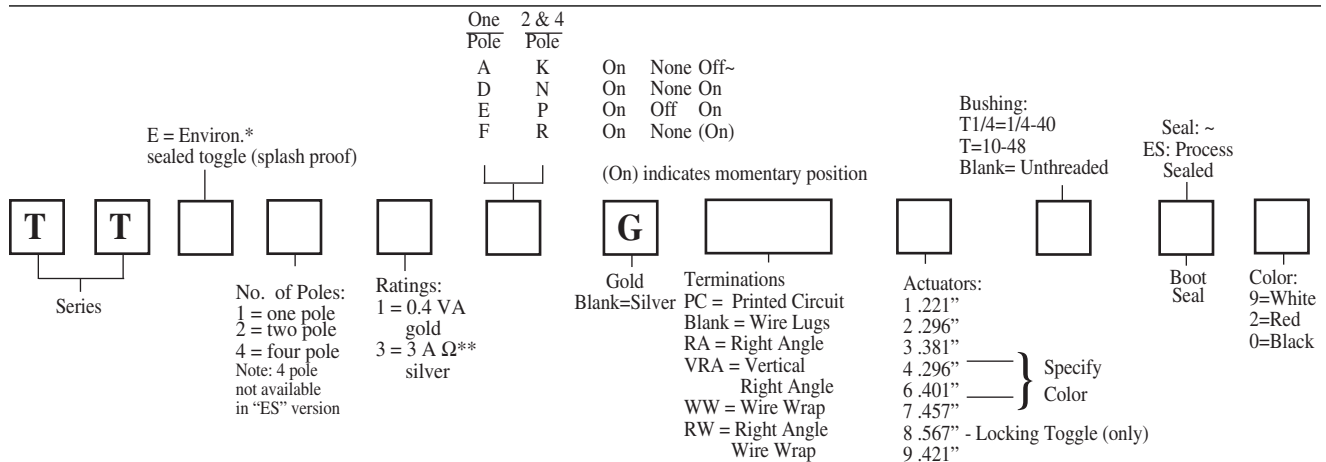
Contacts.....Gold over nickel or silver plate
Case Material.....Thermoplastic 94V-0
Terminals/Fixed Contacts.....Tin lead plate
Terminal Seal.....Epoxy on single pole, optional
on double pole
Process Seal.....ES version only (see page C16 - C17)

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.): 3 A @ 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.)
Two Pole	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.)

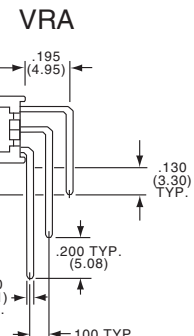
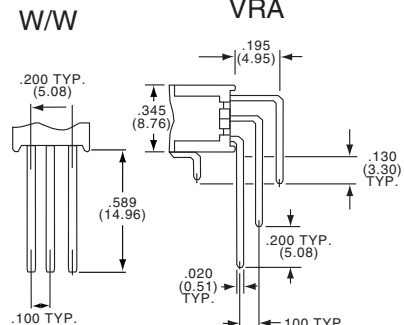
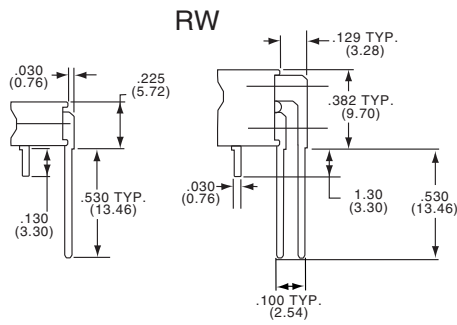
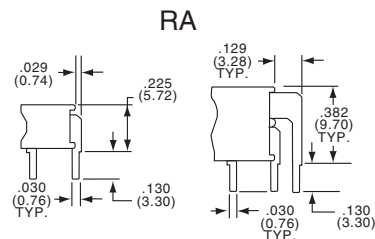
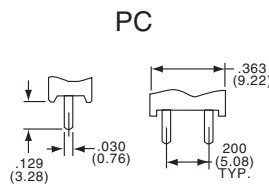
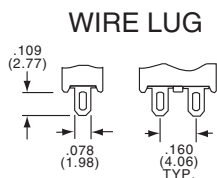
APPLICATION NOTE:

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

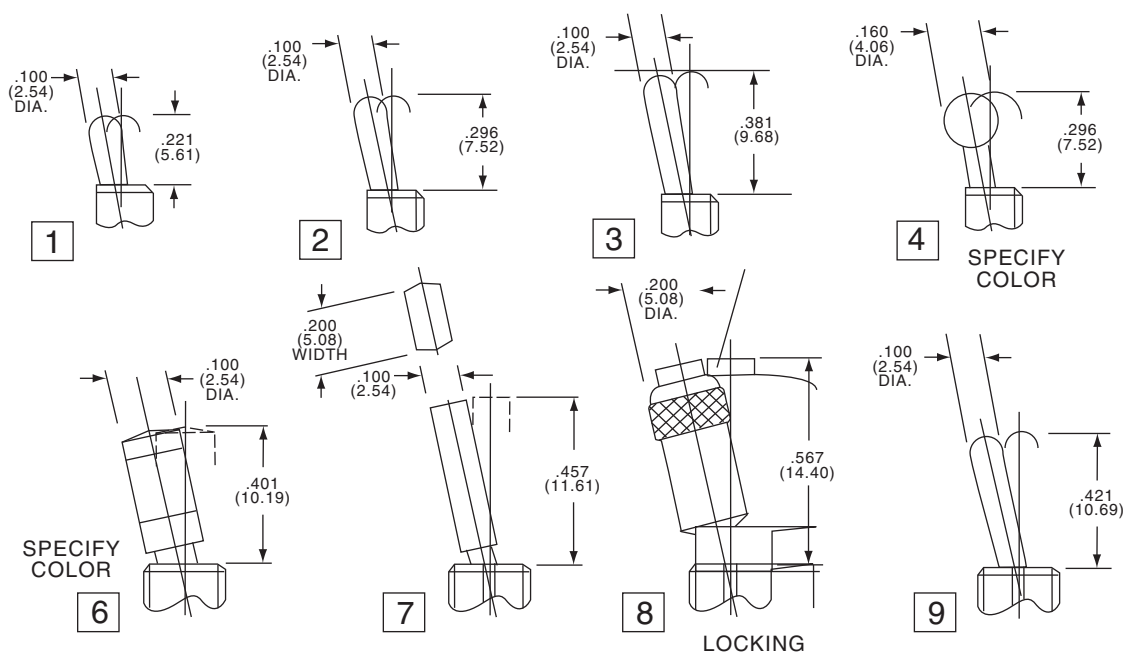
* Not available on 7 actuator or with VRA.
** Not available in RA.
Ω Available in PC & WL only.
~ Available in WL & PC only.

TERMINATIONS

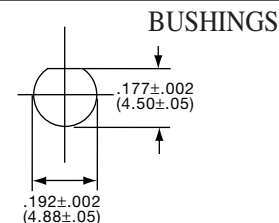
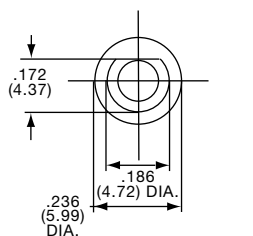
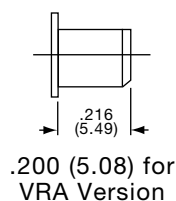


Toggle Switches, Tiny, Actuator and Bushing Options

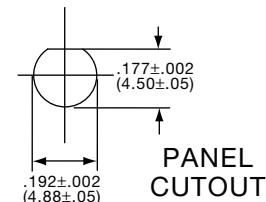
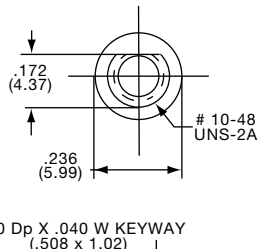
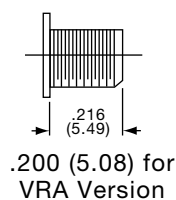
Toggle Cap
Series C-11*
Available



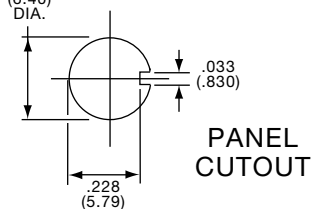
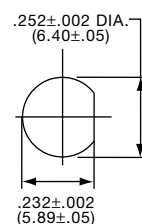
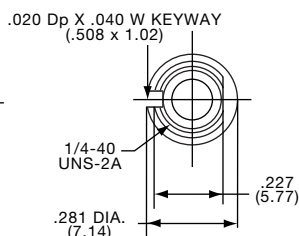
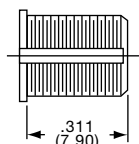
BLANK



T

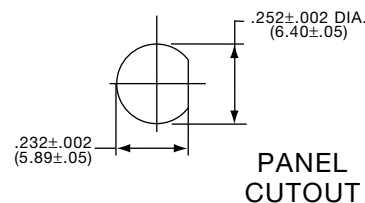
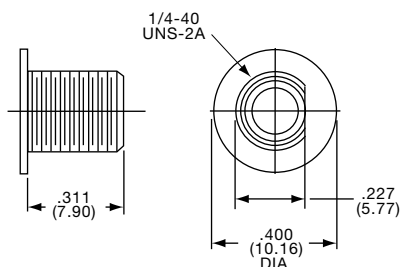


T1/4

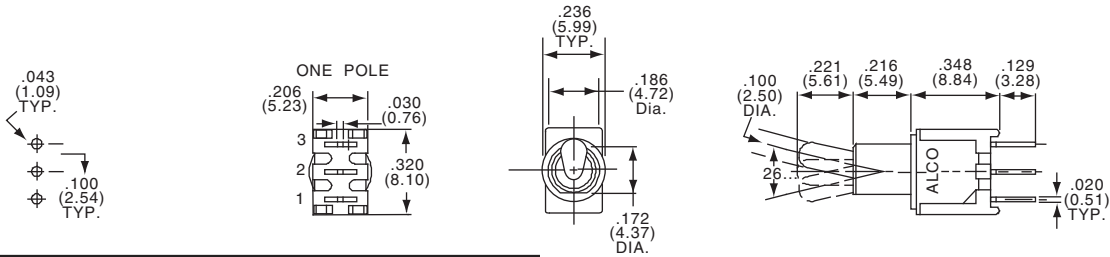


*T1/4

*VERSION USED
ON TTE(Enviromentally
Sealed) Series



Toggle Switches, Tiny, Vertical, PC Mount



1 POLE

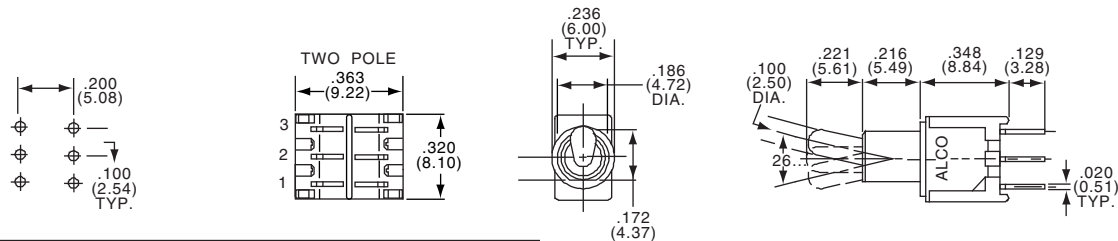
For Terminal Connections refer to Code Chart (see page M5-6)



TT11DGPC1

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
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



2 POLE

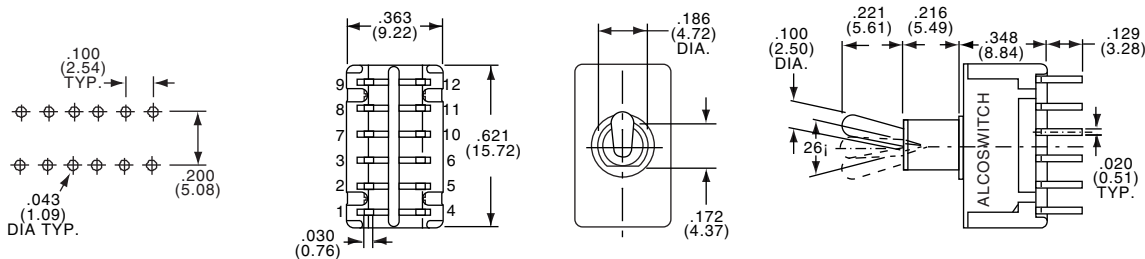
For Terminal Connections refer to Code Chart (see page M5-6)



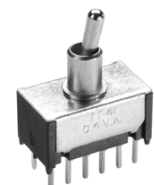
TT21NGPC1

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
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



4 POLE



TT41NGPC1

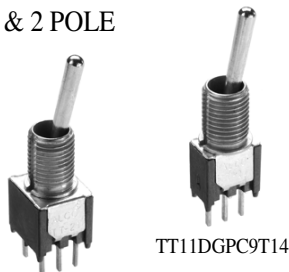
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
6-1437562-6	TT41NGPC1	4PDT	N	On	None	On

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

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

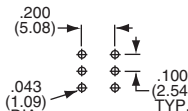
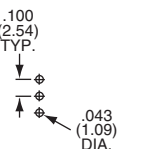
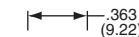
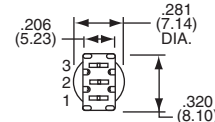
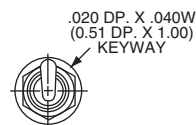
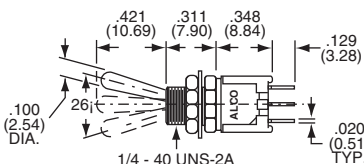
For terminal connections refer to Code Chart on page M5-6

1 & 2 POLE

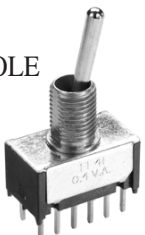


TT11DGPC9T1/4

TT21NGPC9T1/4



4 POLE



TT41NGPC9T1/4

Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5				Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5			
2-1437561-5	TT11AGPC9T1/4	SPST	A	On	None	Off				1-1437562-1	TT21NGPC9T1/4	DPDT	N	On	None	On			
3-1437561-5	TT11DGPC9T1/4	SPDT	D	On	None	On				3-1437562-8	TT21PGPC9T1/4	DPDT	P	On	Off	On			
5-1437561-9	TT11EGPC9T1/4	SPDT	E	On	Off	On				4-1437562-6	TT21RGPC9T1/4	DPDT	R	On	None	(On)			
7-1437561-3	TT11FGPC9T1/4	SPDT	F	On	None	On				6-1437562-8	TT41NGPC9T1/4	4PDT	N	On	None	On			
1437562-1	TT21KGPC9T1/4	DPST	K	On	None	Off				7-1437562-5	TT41PGPC9T1/4	4PDT	P	On	Off	On			

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

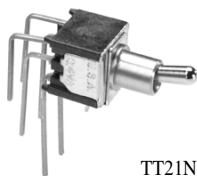
(On) indicates momentary position.

Note: Hardware Included

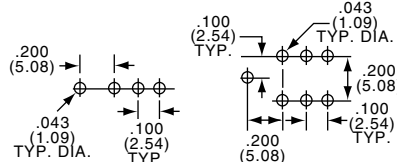
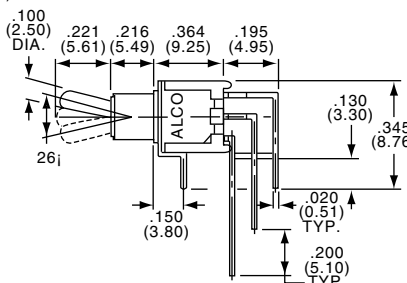
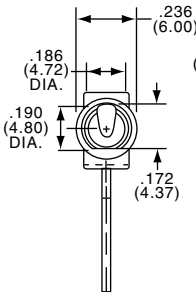
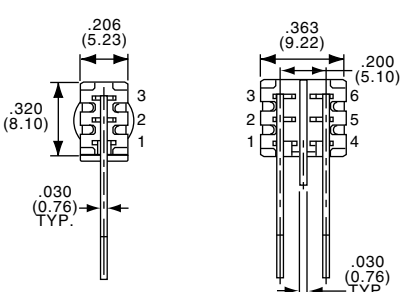
1 & 2 POLE



TT11DGVRA1
Vertical Actuation

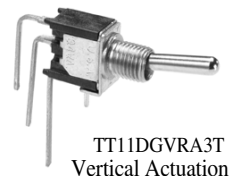


TT21NGVRA1
Vertical Actuation

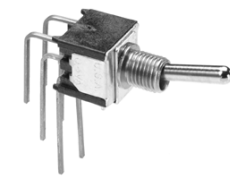


Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5			
4-1437561-8	TT11DGVRA1	SPDT	D	On	None	On			
6-1437561-9	TT11EGVRA1	SPDT	E	On	Off	On			
2-1437562-2	TT21NGVRA1	DPDT	N	On	None	On			
4-1437562-3	TT21PGVRA1	DPDT	P	On	Off	On			

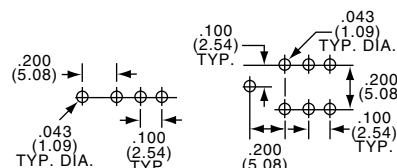
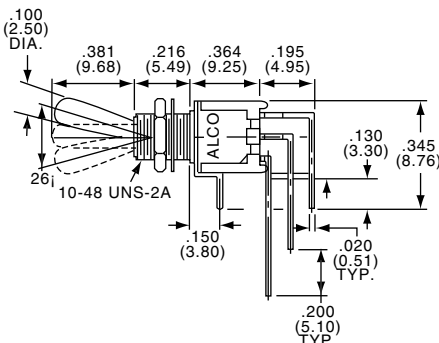
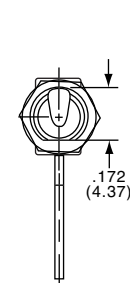
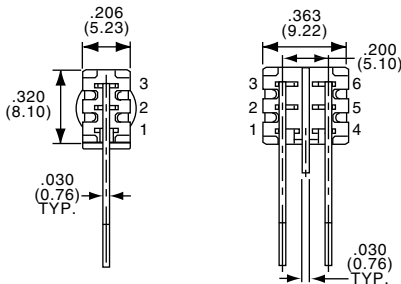
1 & 2 POLE



TT11DGVRA3T
Vertical Actuation



TT21NGVRA3T
Vertical Actuation



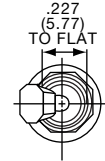
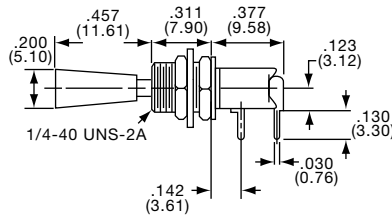
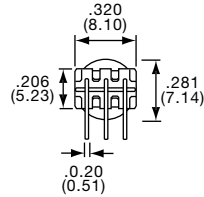
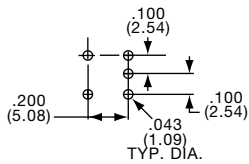
Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5			
4-1437561-9	TT11DGVRA3T	SPDT	D	On	None	On			
7-1437561-0	TT11EGVRA3T	SPDT	E	On	Off	On			
2-1437562-3	TT21NGVRA3T	DPDT	N	On	None	On			

Toggle Switches, Tiny, Right Angle, Flat Actuator

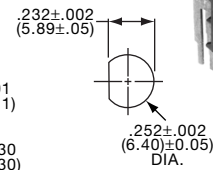
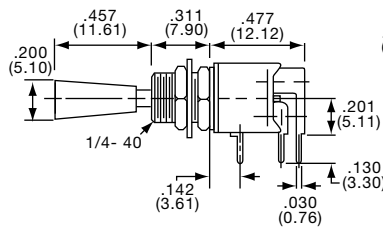
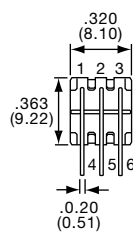
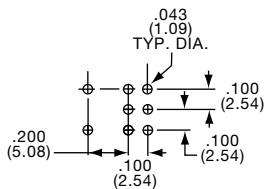
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

* Refer to Page C8 for
Other Options *

1 & 2 POLE FLAT



TT11DGRA7T1/4
Horizontal Actuation



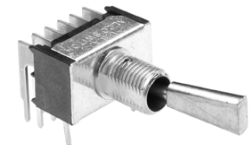
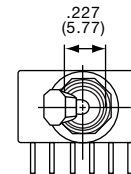
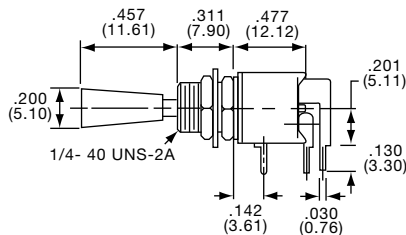
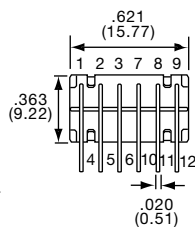
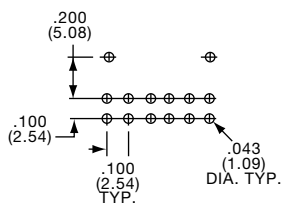
TT21NGRA7T1/4
Horizontal Actuation

Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	On
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

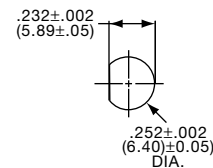
(On) indicates momentary position

Pinned for Anti-Rotation

4 POLE FLAT



TT41NGRA7T14
Horizontal Actuation



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

Pinned for Anti-Rotation

Toggle Switches, Tiny, Wire Wrap Termination

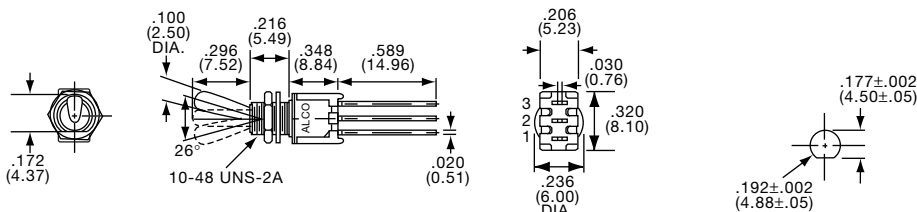
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

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

1 POLE



TT11DGWW2T

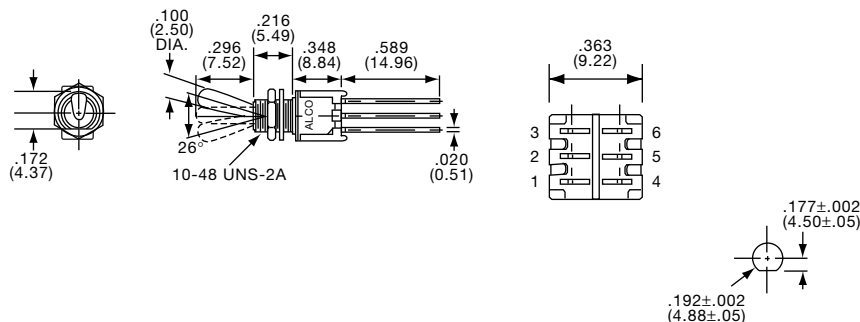


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
5-1437561-0	TT11DGWW2T	SPDT	D	On	None	On
7-1437561-1	TT11EGWW2T	SPDT	E	On	Off	On

2 POLE

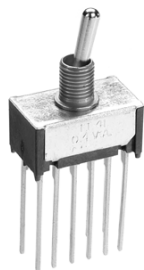


TT21NGWW2T

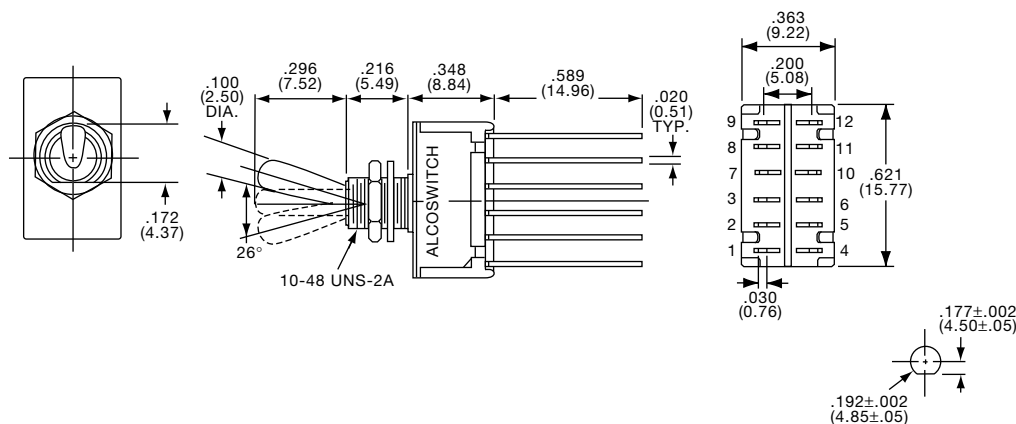


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
2-1437562-4	TT21NGWW2T	DPDT	N	On	None	On
4-1437562-4	TT21PGWW2T	DPDT	P	On	Off	On

4 POLE



TT41NGWW2T



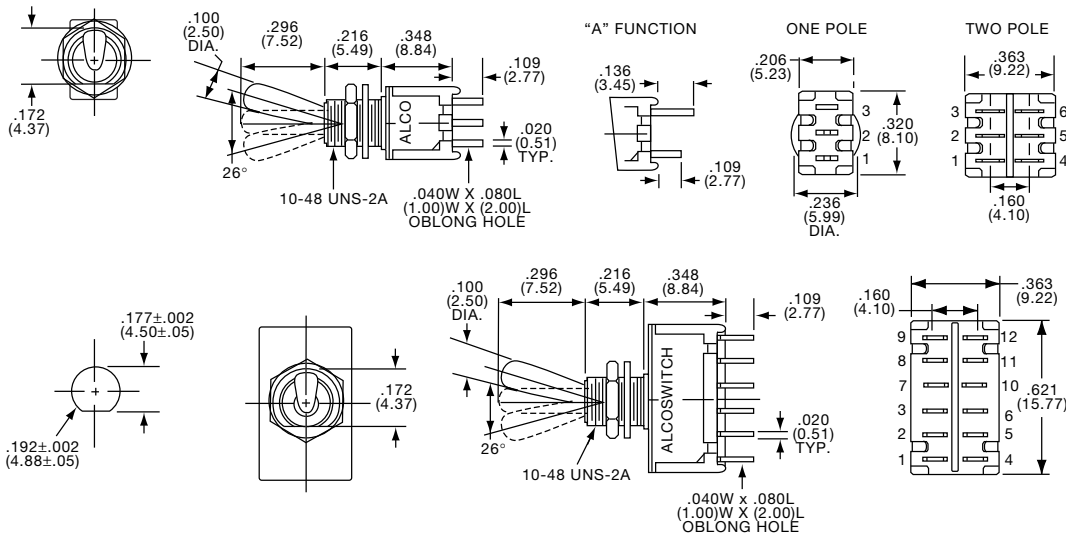
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5			
7-1437562-4	TT41NGWW2T	4PDT	N	On	None	On

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

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

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

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



1 & 2 POLE

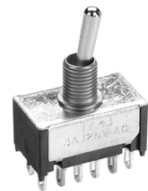


TT13D2T



TT23N2T

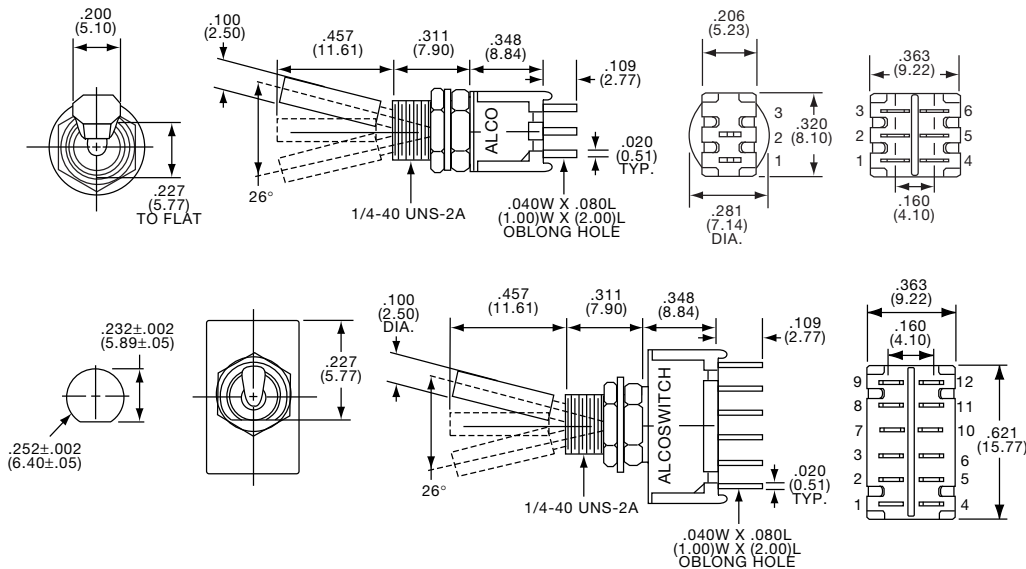
4 POLE



TT43N2T

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
7-1437561-8	TT13A2T	SPST	A	On	None	Off	5-1437562-1	TT23N2T	DPDT	N	On	None	On
8-1437561-5	TT13D2T	SPDT	D	On	None	On	5-1437562-7	TT23P2T	DPDT	P	On	Off	On
9-1437561-5	TT13E2T	SPDT	E	On	Off	On	7-1437562-6	TT43N2T	4PDT	N	On	None	On
4-1437562-7	TT23K2T	DPST	K	On	None	Off							

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	On	None	Off	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
9-1437561-1	TT13D7T1/4	SPDT	D	On	None	On	6-1437562-0	TT23P7T1/4	DPDT	P	On	Off	On
9-1437561-7	TT13E7T1/4	SPDT	E	On	Off	On	7-1437562-8	TT43N7T1/4	4PDT	N	On	None	On
5-1437562-5	TT23N7T1/4	DPST	N	On	None	On		TT43P7T1/4	4PDT	P	On	Off	On

Toggle Switches, Tiny, Wire Lug, Long Actuators

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

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

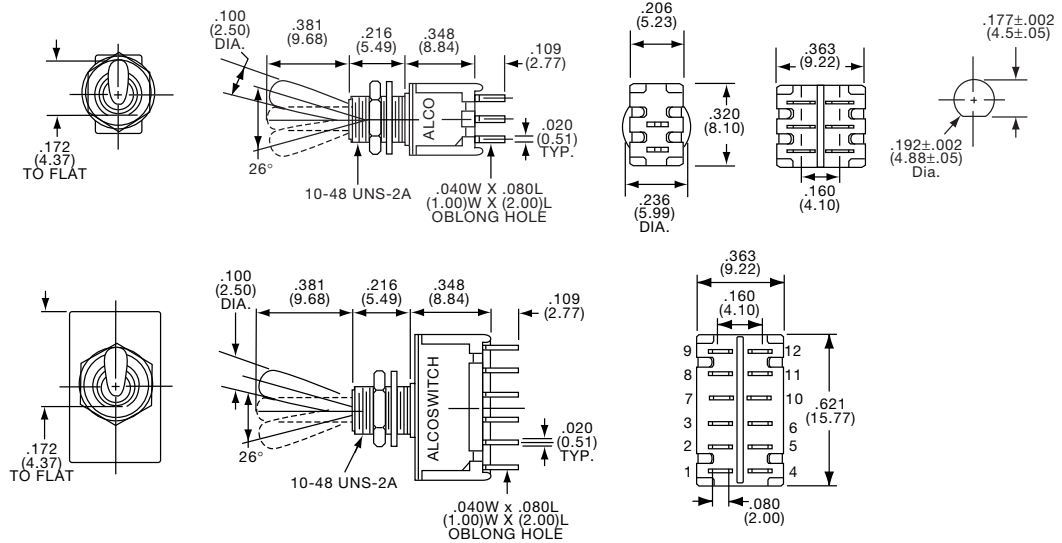
1 & 2 POLE



TT13D3T



TT23N3T



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
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.

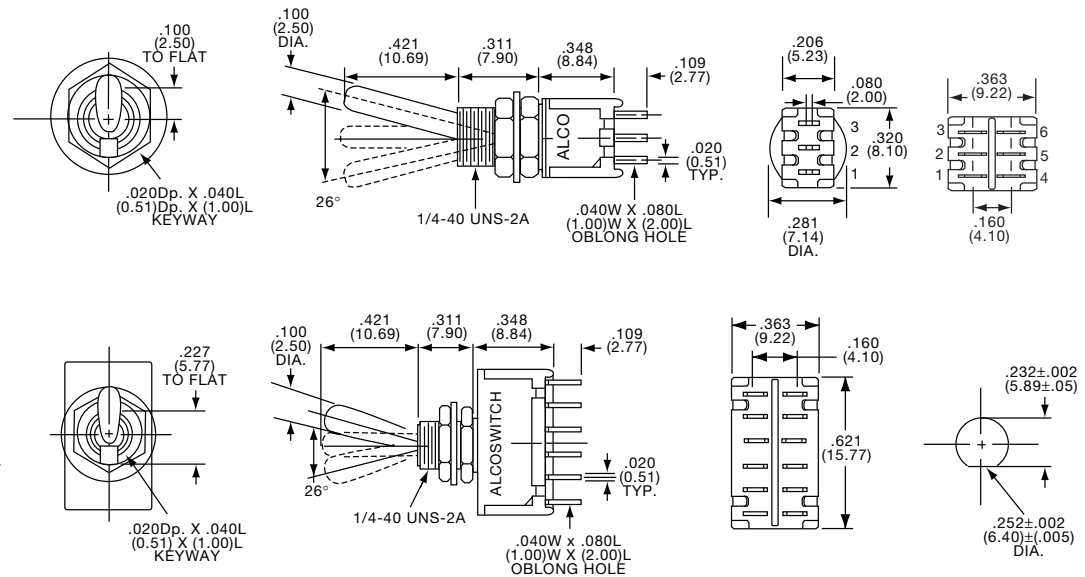
1 & 2 POLE



TT13A9T1/4



TT23N9T1/4



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
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.

4 POLE



TT43N9T1/4

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

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

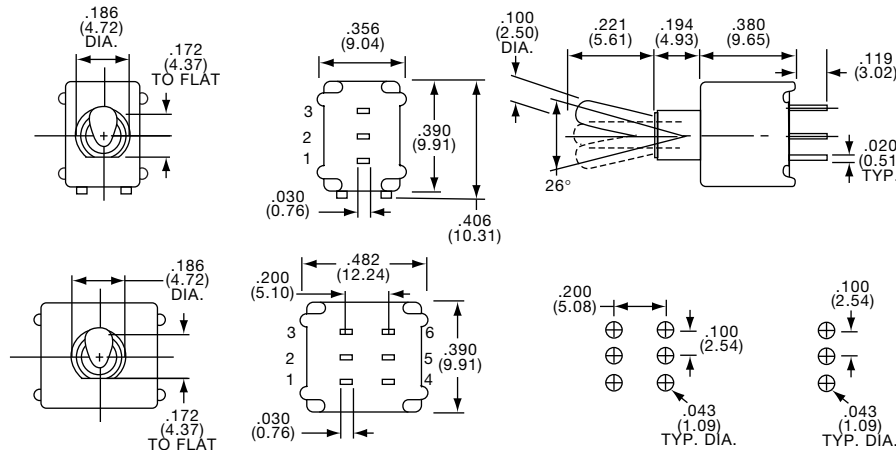
ENVIRONMENTAL SPECIFICATIONS

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

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

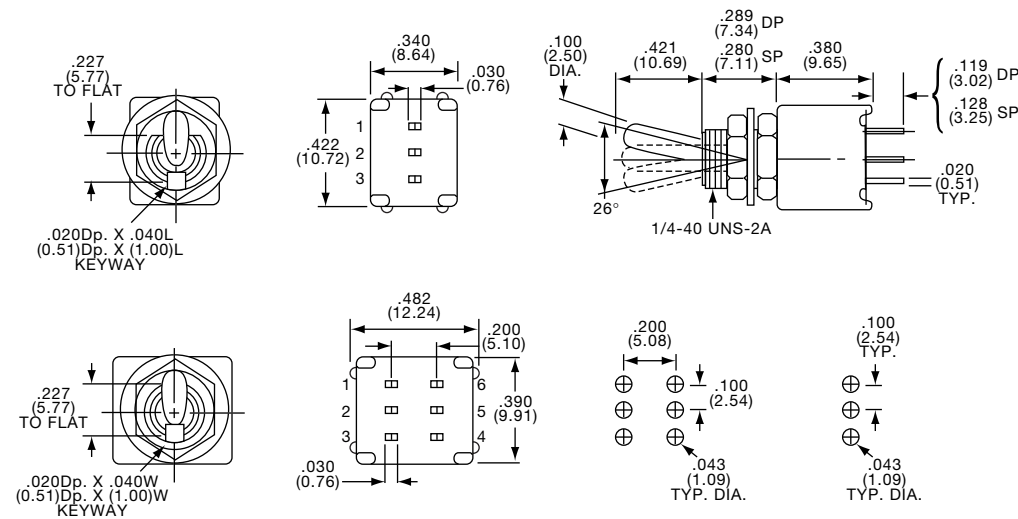


TT11DGPC1ES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
2-1437561-4	TT11AGPC1ES	SPST	A	On	None	Off
2-1437561-7	TT11DGPC1ES	SPDT	D	On	None	On

Note: No center terminal "A".

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1437562-4	TT21NGPC1ES	DPDT	N	On	None	On



1 & 2 POLE
THREADED BUSHING

TT11DGPC9T1/4ES

TT21NGPC9T1/4ES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
6-1437830-2	TT11AGPC9T1/4ES	SPST	A	On	None	Off
	TT11DGPC9T1/4ES	SPDT	D	On	None	On
	TT11EGPC9T1/4ES	SPDT	E	On	Off (On)	
	TT21KGPC9T1/4ES	DPST	K	On	None	Off

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

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1-1437562-2	TT21NGPC9T1/4ES	DPDT	N	On	None	On
	TT21PGPC9T1/4ES	DPDT	P	On	Off	On

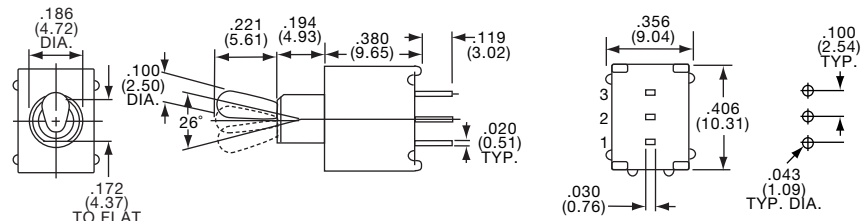
(On) indicates momentary position.

Toggle Switches, Tiny, Enviromental and Process Sealed

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

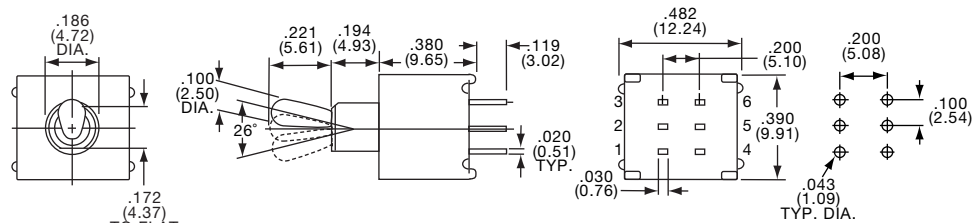
For terminal connections refer to Code Chart on page M5-6

1 POLE-PC VERTICAL MOUNT



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

2 POLE-PC VERTICAL MOUNT

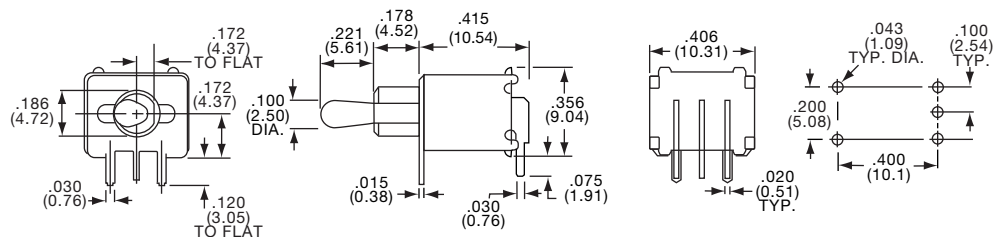


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1437563-1	TTE21NGPC1ES	DPDT	N	On	None	On
	TTE21PGPC1ES	DPDT	P	On	Off	On

1 POLE-PC RIGHT ANGLE



TTE11DGRA1ES
Horizontal Actuation

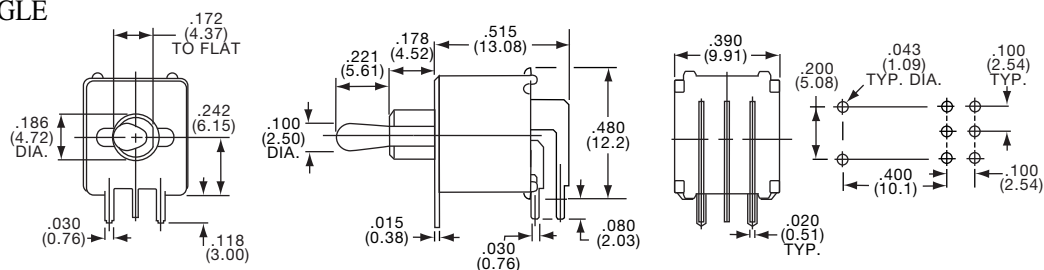


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
8-1437562-9	TTE11DGRA1ES	SPDT	D	On	None	On
9-1437562-2	TTE11EGRA1ES	SPDT	E	On	Off	On

2 POLE-PC RIGHT ANGLE



TTE21NGRA1ES
Horizontal Actuation



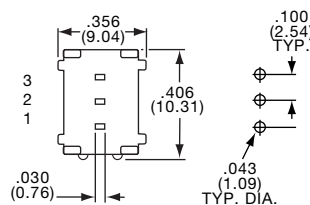
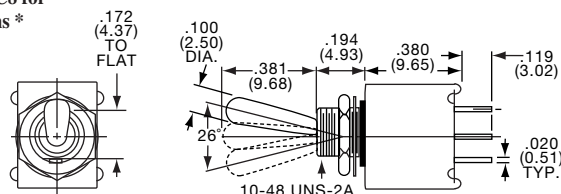
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1437563-4	TTE21NGRA1ES	DPDT	N	On	None	On
	TTE21PGRA1ES	DPDT	P	On	Off	On

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 *



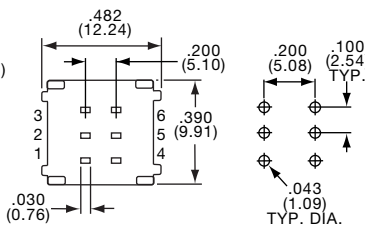
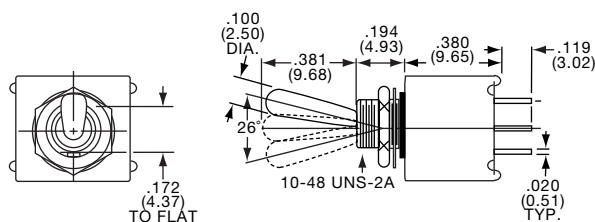
1 POLE



TTE11DGPC3TES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
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.

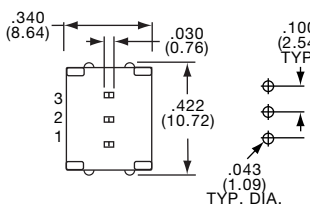
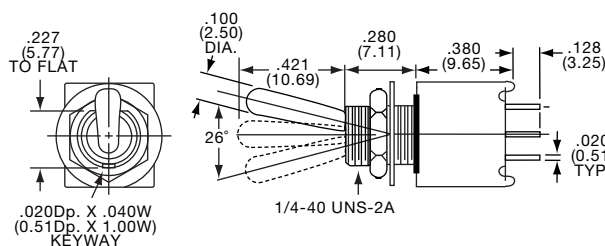


2 POLE



TTE21NGPC3TES

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



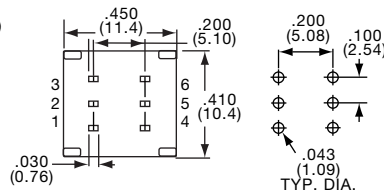
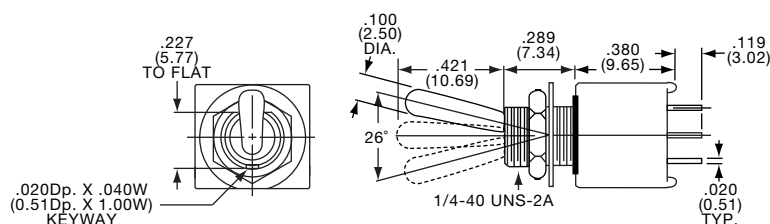
1 POLE



TTE11DGPC9T4ES

Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	Off
	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	On	None	Off
	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.

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

MATERIAL SPECIFICATIONS:

ContactsGold over nickel plate
Case MaterialPolyester 94V-0
Actuator MaterialNickel plated copper alloy
TerminalsPhosphor bronze
Terminal SealEpoxy
Process SealTested to MIL-STD-202, method 112
(Internal O-Ring)test condition A and D, 85°C

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC
Initial Contact Resistance100 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance500 Megohms @ 250 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuation Force400 Grams
Life ExpectancyUp to 10,000 Cycles

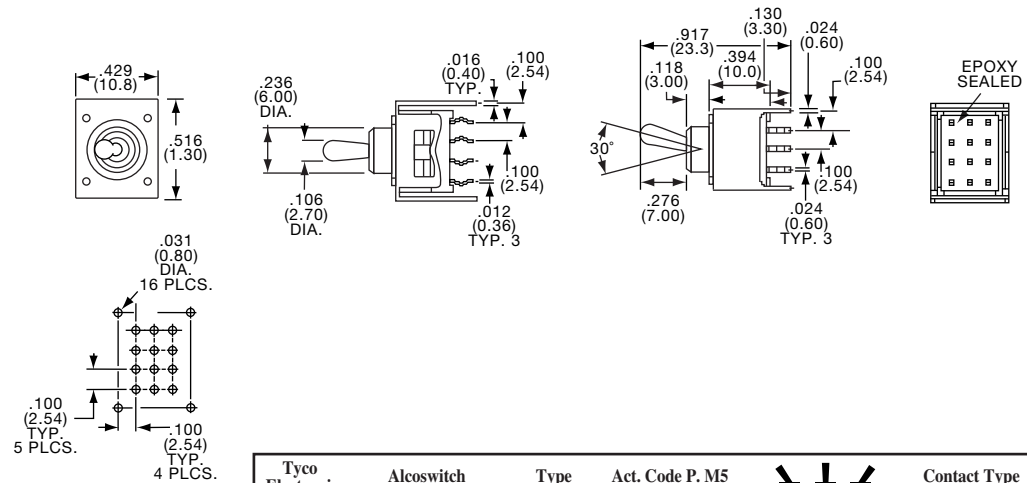
ENVIRONMENTAL SPECIFICATIONS

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

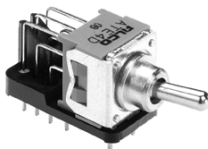


ATE4DGPC2

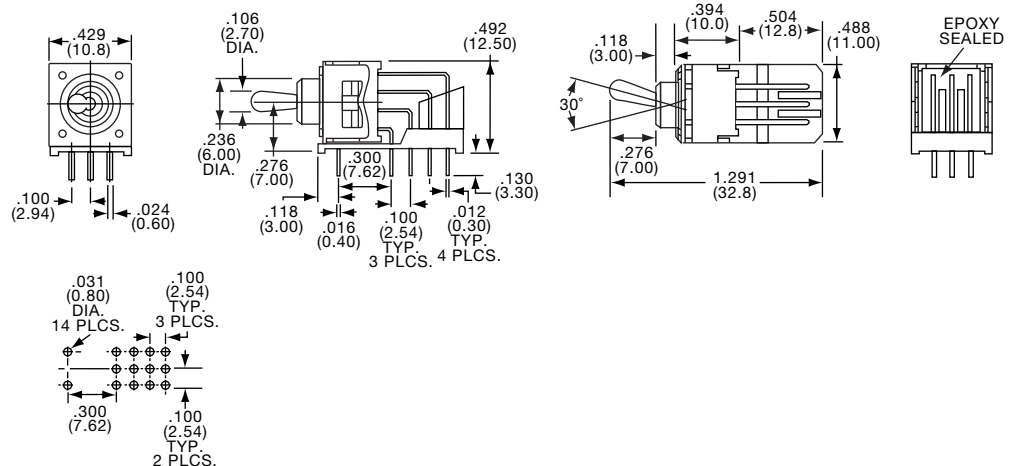


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5		Contact Type
2-1437557-1	ATE4DGPC2	4PDT	8	On None On	Gold

4PDT



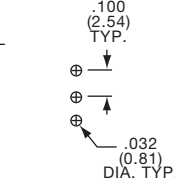
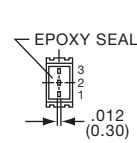
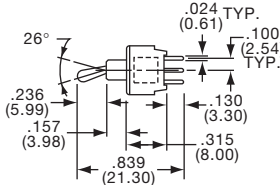
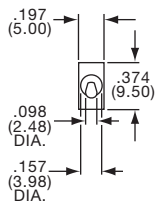
ATE4DGRA2



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

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

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

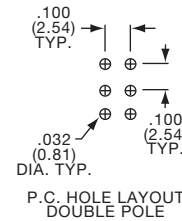
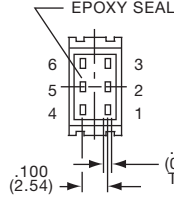
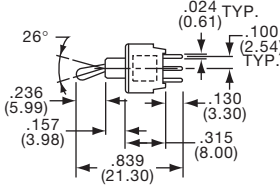
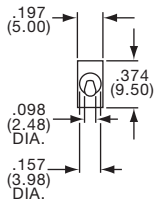


P.C. HOLE LAYOUT
SINGLE POLE

SPDT/DPDT



ATE1DGPC1



P.C. HOLE LAYOUT
DOUBLE POLE

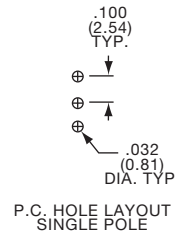
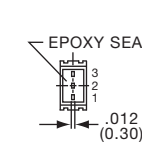
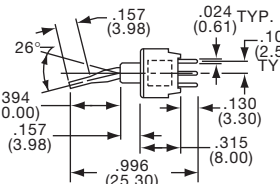
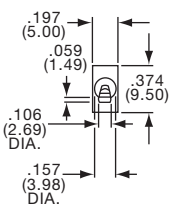
Extra compact double pole saves PCB real estate.



ATE2DGPC1

Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type
1437557-2	ATE1DGPC1	SPDT	On	None	On	Gold	1-1437557-5	ATE2DGPC1	DPDT	On	None	On	Gold
1437557-6	ATE1EGPC1	SPDT	On	Off	On	Gold	1-1437557-9	ATE2EGPC1	DPDT	On	Off	On	Gold
1-1437557-2	ATE1GGPC1	SPDT	On	None (On)	On	Gold	Terminals Connected:						
Terminals Connected:							2-3						
(On) indicates momentary position.							5-6						

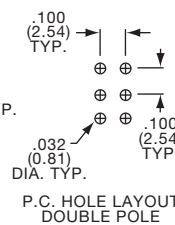
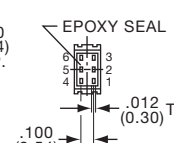
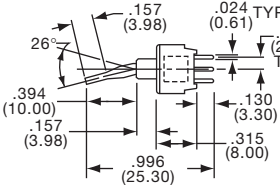
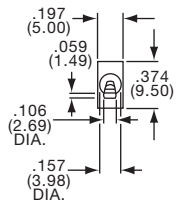
SPDT/DPDT



P.C. HOLE LAYOUT
SINGLE POLE



ATE1DGPC7



P.C. HOLE LAYOUT
DOUBLE POLE

Extra compact double pole saves PCB real estate.



ATE2DGPC7

Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type
1437557-3	ATE1DGPC7	SPDT	On	None	On	Gold	1-1437557-6	ATE2DGPC7	DPDT	On	None	On	Gold
1-1437557-3	ATE1GGPC7	SPDT	On	Off	On	Gold	Terminals Connected:						
Terminals Connected:							2-3						
(On) indicates momentary position.							5-6						

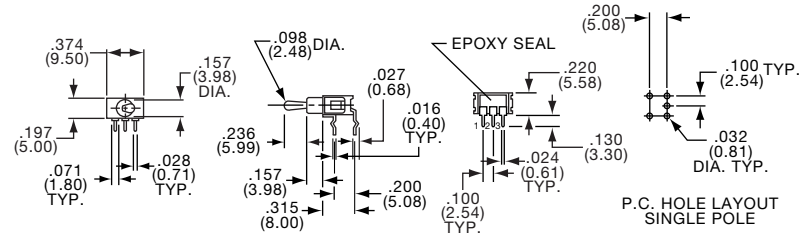
Toggle Switches, Process Sealed, Right Angle, Retention Feature

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



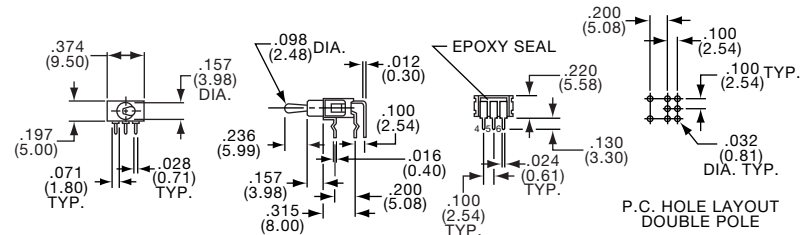
ATE1DGRA1
Horizontal Actuation



Extra compact double pole
saves PCB real estate.



ATE2DGRA1
Horizontal Actuation

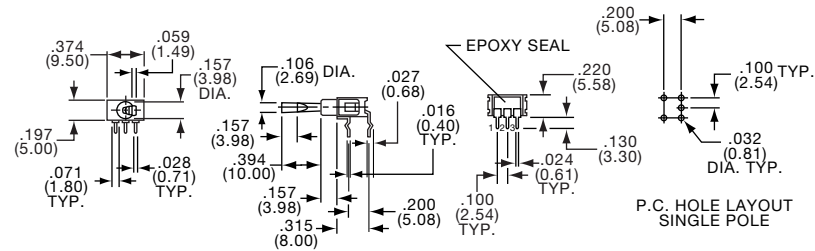


Tyco Electronics	Alcoswitch	Type	On	None	Off	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	Off	Contact Type
1437557-4	ATE1DGRA1	SPDT	On	None	On	Gold	1-1437557-7	ATE2DGRA1	DPDT	On	None	On	Gold
1437557-8	ATE1EGRA1	SPDT	On	Off	On	Gold	3-1437592-7	ATE2EGRA1	DPDT	On	Off	On	Gold
1-1437557-0	ATE1FGRA1	SPDT	On	None (On)		Gold		ATE2GGRA1	DPDT	(On)	Off	(On)	Gold
1-1437557-4	ATE1GGRA1	SPDT	(On)	Off (On)		Gold	Terminals Connected:			2-3		2-1	
Terminals Connected:			2-3		2-1					5-6		5-4	
(On) indicates momentary position.							(On) indicates momentary position.						

SPDT/DPD



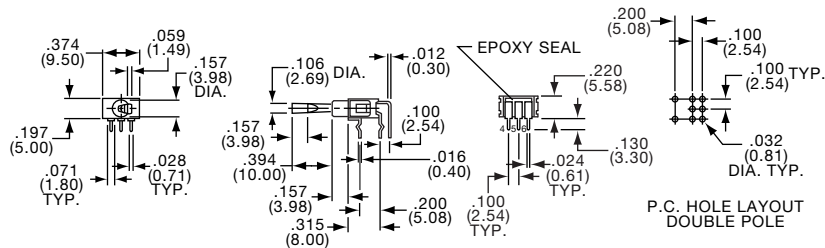
ATE1DGRA7
Horizontal Actuation



Extra compact double pole
saves PCB real estate.



ATE2DGRA7
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	On	None	Off	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	Off	Contact Type
1437557-5	ATE1DGRA7	SPDT	On	None	On	Gold	1-1437557-8	ATE2DGRA7	DPDT	On	None	On	Gold
1437557-9	ATE1EGRA7	SPDT	On	Off	On	Gold	Terminals Connected:			2-3		2-1	
1-1437557-1	ATE1FGRA7	SPDT	On	None (On)		Gold				5-6		5-4	
Terminals Connected:			2-3		2-1		(On) indicates momentary position.						