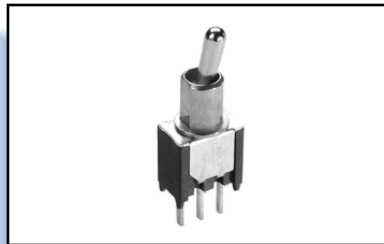
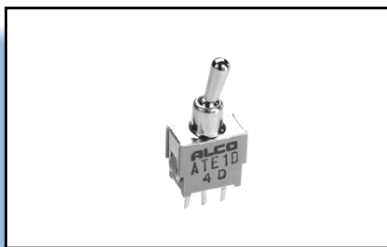


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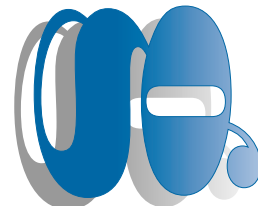
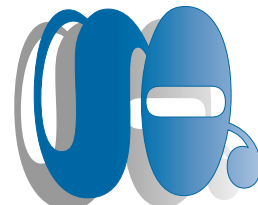
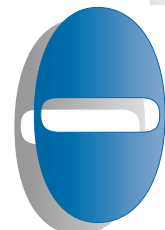
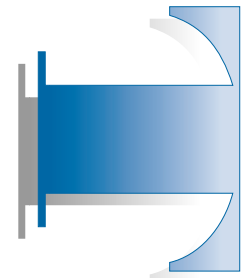
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A101KAQ	C22	A107MD9AV2B	C22	A208SYAB	C28	AE201MD1AQ	C40
A101KCC	C22	A107MD9CQ	C22	A208SYCB	C22,C28	AE201MD1AV2B	C41
A101KD9AQ	C22	A107MD9V30Q	C22	A208SYCQ	C22	AE201MD1AV2Q	C41
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A101KZQ2	C22	A107SYAQ	C22	A208T1ZQ	C22,C34	AE201MD1CQ	C41
A101MD9AB	C22,C32	A107SYCB	C22	A208T2Q	C22	AE201MD1V30B	C35
A101MD9AG	C22	A107SYCQ	C22	A211KZB	C22,C31	AE201SD1AB	C42
A101MD9AQ	C22,C32	A107SYZB	C27	A211KZQ	C31	AE201SD1AG	C35
A101MD9AV2B	C22,C32	A107SYZQ	C22,C27	A211MD9AQ	C22	AE201SD1AQ	C42
A101MD9AV2G	C22	A107TZB	C22	A211MYCQ	C22	AE201SD1AV2B	C42
A101MD9AV2Q	C22,C32	A108MD9AB	C22,C32	A211P3YCQ	C22	AE201SD1AV2Q	C42
A101MD9V30B	C22	A108MD9AQ	C32	A211P3YV40GUL	C22	AE201SD1CB	C39
A101MDAQ	C22	A108MD9AV2Q	C32	A211P3YZQ	C22,C33	AE201SD1CQ	C39
A101MDAV2B	C22	A108P3CWV30B	C22	A211SCWCQO	C22	AE201SD1CQUL	C35
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A101MDZQ	C22	A108P3YZQ	C22,C32	A211SHZQ	C22	AE203MD1AQ	C40
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A101MYZQ	C22	A108SDZQ	C22	A211SYCQ	C22	AE203MD1AV2Q	C41
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A101P3YCB	C22	A108SYCQ	C22	A211SYZQ	C22,C27	AE203MD1CQ	C41
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A103MD9AG	C22	A201SYZB	C22	AE103MD1AQ	C40	AE211MD1CQ	C41
A103MD9AQ	C22,C32	A201SYZQ	C22,C27	AE103MD1AV2B	C40	AE211MD1V30B	C35
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A103SD9AB	C30	A203KZB	C31	AE103MD1V30B	C35	AE215MD1CQ	C41
A103SD9AQ	C22,C30	A203KZQ	C22,C31	AE103SD1AB	C42	AE215SD1CB	C39
A103SD9AV2B	C22	A203MD9AB	C22,C32	AE103SD1AQ	C42	AE215SD1CQ	C39
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A103SDCB	C22	A203MD9AV2Q	C32	AE103SD1AV2Q	C42	ATE1DGPC7	C20
A103SDCQ	C22,C30	A203P3YAV2Q	C22	AE103SD1CB	C39	ATE1DGRA1	C21
A103SDZQ	C22,C29	A203P3YZQ	C22,C33	AE103SD1CQ	C39	ATE1DGRA7	C21
A103SYAB	C28	A203SD9AV2B	C22	AE103SD1CQUL	C35	ATE1EGPC1	C20
A103SYAQ	C22	A203SD9AV2Q	C22,C31	AE103SD1V30B	C35	ATE1EGRA1	C21
A103SYAV2Q	C22	A203SDCQ	C30	AE105MD1AB	C35	ATE1EGRA7	C21
A103SYCB	C22,C28	A203SDZQ	C22,C29	AE105MD1AG	C35	ATE1FGPC1	C20
A103SYCQ	C22	A203SYCB	C22,C28	AE105MD1AV2B	C35	ATE1FGRA1	C21
A103SYWB	C22	A203SYCQ	C22	AE105MD1CB	C41	ATE1FGRA7	C21
A103SYWQ	C22,C29	A203SYWQ	C29	AE105MD1CQ	C41	ATE1GGPC1	C20
A103SYZB	C22,C27	A203SYZQ	C22,C27	AE105SD1CB	C39	ATE1GGPC7	C20
A103SYZQ	C22,C27	A203T1ZQ	C22,C34	AE105SD1CQ	C39	ATE1GGRA1	C21
A103T1CG	C22	A203TZQ	C22,C32	AE105SD1V30B	C35	ATE2DGPC1	C20
A103T1ZQ	C22,C34	A205KZB	C22,C31	AE107MD1AV2B	C35	ATE2DGPC7	C20
A103TZQ	C22,C33	A205KZQ	C31	AE107MD1CB	C41	ATE2DGRA1	C21
A105MD9AB	C22	A205P3YZQ	C22,C33	AE107MD1CQ	C41	ATE2DGRA7	C21
A105MD9AQ	C22	A205SD9AB	C22	AE107SD1AB	C35	ATE2EGPC1	C20
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A105P3YCG	C22	A205SYCQ	C22	AE107SD1CB	C39	ATE2GGRA1	C21
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A105SD9AB	C22	A207P3YZQ	C22,C33	AE108MD1AQ	C40	B10482	C55
A105SD9AV2QUL	C22	A207SYCB	C22	AE108MD1AV2B	C40	B10488	C55
A105SD9V30B	C22	A207SYCQ	C22	AE108MD1AV2Q	C40	B14400	C55
A105SYAB	C22	A207SYZQ	C22,C27	AE108MD1CB	C41	B14402	C55
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A105SYCB	C22	A207TZQ	C22	AE108SD1AB	C42	B15320	C55
A105SYCQ	C22	A208KZGUL	C22	AE108SD1AQ	C42	B15322	C55
A105SYZB	C22,C27	A208MD9AV2B	C32	AE108SD1AV2B	C42	B15328	C55
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BT15328	C55	MTF226PA	C47	TT11AGPC1ES	C16	TT21PGPC3	C8
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MTA306FPC	C44	MTL206S	C50	TT11EGPC9T1/4ES	C16	TT41NGRA1	C8
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MTB306D	C45	N1C	C54	TT13D4T0	C8	TTE11EGRA1ES	C17
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MTE106F	C46	N40-AG	C54	TT13D9T1/4	C15	TTE13D9T1/4	C8
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MTE206PA	C46	TST11DGPC1D	C5	TT13E7T1/4	C14	TTE21NGPC1ES	C8
MTE206R	C46	TST11DGPC4D	C5	TT13E9T1/4	C15	TTE21NGPC3TES	C8
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MTE306D	C46	TST11DGSPC1D	C5	TT21KGPC9T1/4ES	C16	TTE21NGRA1ES	C8
MTE306E	C46	TST11DGSRAB1D	C5	TT21NG2T	C8	TTE21PGPC1ES	C17
MTE406N	C46	TST11DGVR1D	C5	TT21NGPC1	C10	TTE21PGPC3TES	C18
MTE406P	C46	TST11DGVR2D	C5	TT21NGPC1ES	C16	TTE21PGPC9T1/4ES	C18
MTF106D	C47	TST11EGPC1D	C5	TT21NGPC1T	C8	TTE21PGRA1ES	C17
MTF106E	C47	TST11EGRA1D	C5	TT21NGPC1T1/4	C8	TTE23N2T	C8
MTF106F	C47	TST11EGSRA1D	C5	TT21NGPC2T1/4	C8	TTE23N8T1/4	C8
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MTF106H	C47	TST11EGVRA1D	C5	TT21NGPC7T1/4	C8	TTE23NG2T	C8
MTF126D	C47	TST11FGPC1D	C5	TT21NGPC8T1/4	C8	TTE23P8T1/4	C8
MTF126E	C47	TST11FGRA1D	C5	TT21NGPC9T1/4	C11	TTE41NGPC1	C8
MTF126F	C47	TST11FGSPC1D	C5	TT21NGPC9T1/4ES	C16	TTE41NGWW2T	C8
MTF126G	C47	TST11FGSRA1D	C5	TT21NGRA1	C8	TTE43N8T1/4	C8
MTF206N	C47	TST11FGSRA2D	C5	TT21NGRA1ES	C8	TTE43N9T1/4	C8
MTF206P	C47	TST11FGVRA1D	C5	TT21NGRA3T1/4	C8	TTE43N9T1/4E	C8
MTF206PA	C47	TST11GGPC1D	C5	TT21NGRA7T1/4	C12	TTE43P8T1/4	C8
MTF206R	C47	TST11GGPC4D	C5	TT21NGRA8T1/4	C8		
MTF206S	C47	TST11GGRA1D	C5	TT21NGRA9T1/4	C8		
MTF206SA	C47			TT21NGVRA1	C11		

C
Toggle Switches

Toggle Switches, Poles, Throws & Functions Selection Guide

SERIES/CURRENT RATING/PAGE NUMBER

ATE Series0.4VAPage C19
A/AE Series 0.4VA ..5 Amps.....Page C22/35

TT Series0.4VA 3 AmpsPage C8
TST Series0.4VAPage C5
MT Series6 AmpsPage C43

C

Toggle Switch Selection Guide

	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		

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:

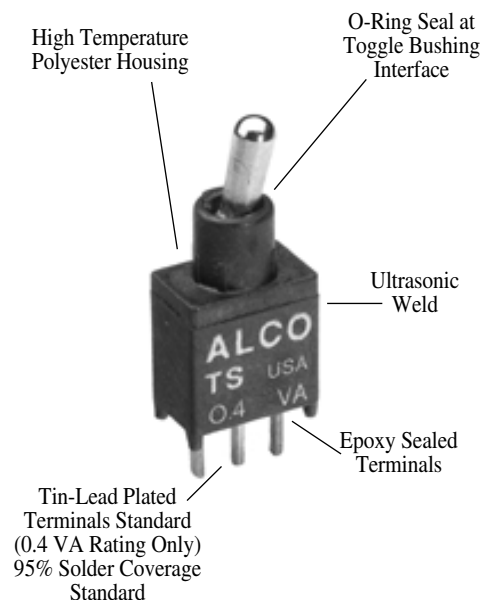
ContactsCopper alloy with gold over nickel plate
 Case MaterialLCP
 Actuator MaterialNickel plated brass
 TerminalsCopper alloy with gold over nickel plating inside, tin plating outside
 Terminal SealEpoxy
 Support BracketTin plated steel

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)

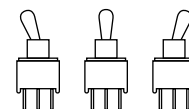


FUNCTION CHART

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

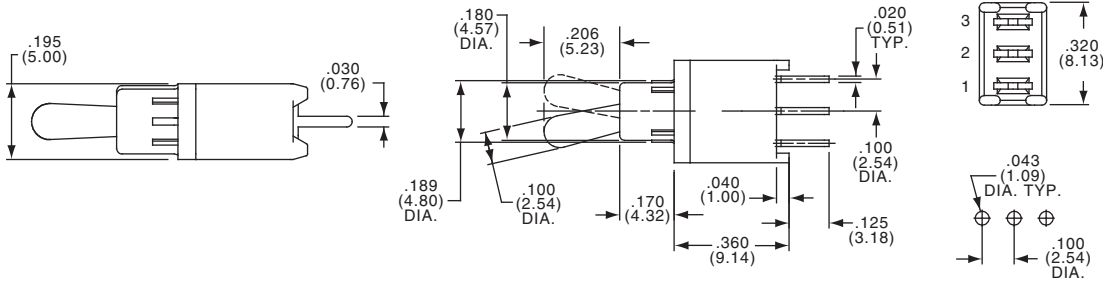
Model	No. of Poles	Contact Rating	Function	Contact Plating	Terminations	Actuator	Bushing (Plain)
TST	1	1	D on none on E on off on F on none(on) G (on) off (on)	G	PC RA VRA SPC SRA SRAB P.C. Right Angle Vertical Right Angle SurfaceMount Surface Mount R.A. SurfaceMount R.A. Butt	1 2 4 .206" .250" .400"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

APPLICATION NOTE:

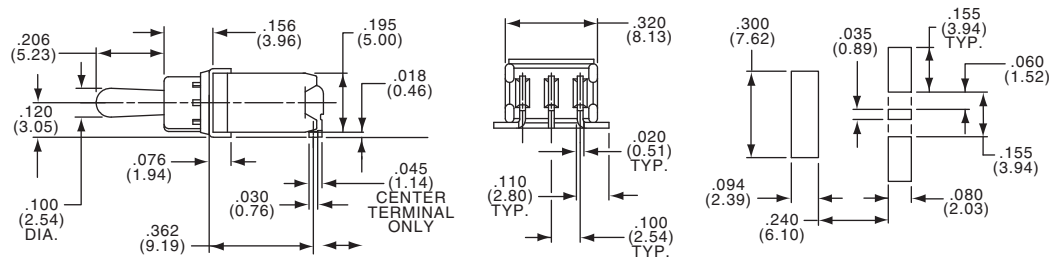
For sealed pushbutton switches, see page D3 - D5

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

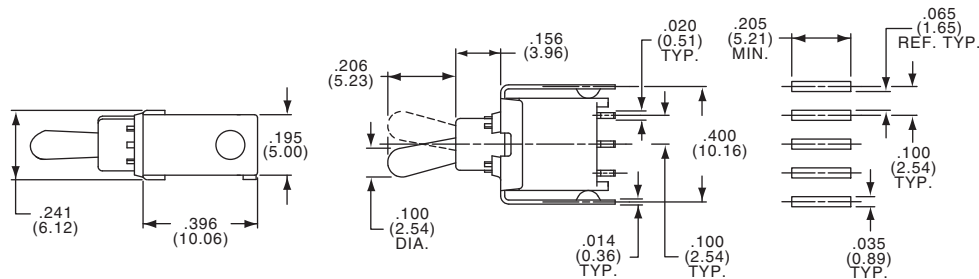
PC MOUNT PC



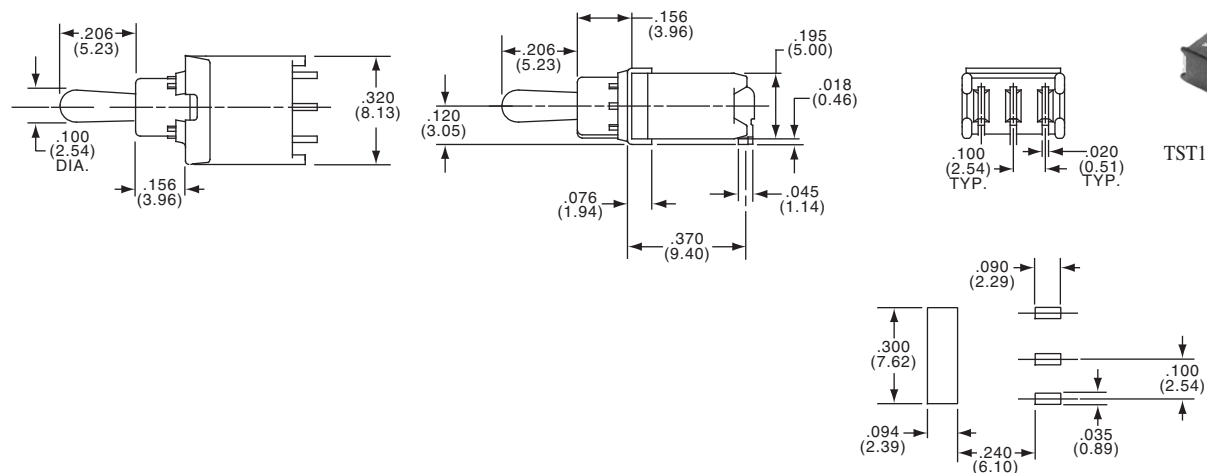
SURFACE MOUNT RIGHT ANGLE "L" BEND SRA



SURFACE MOUNT SPC



SURFACE MOUNT RIGHT ANGLE BUTT SRAB



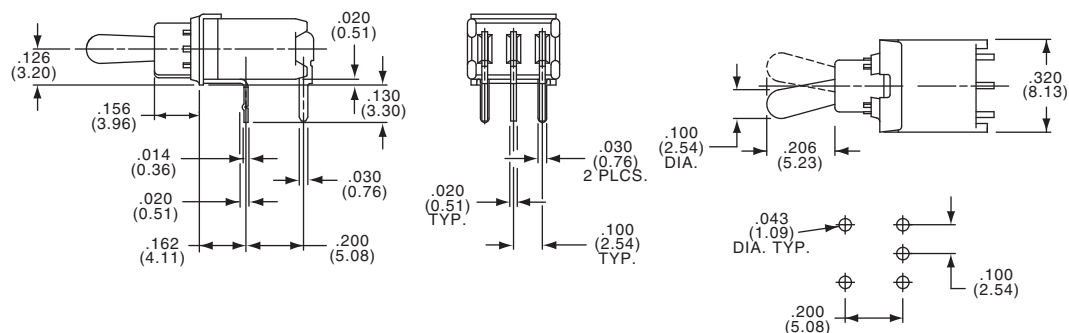
Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

RA

Right Angle



TST11DGRA1D

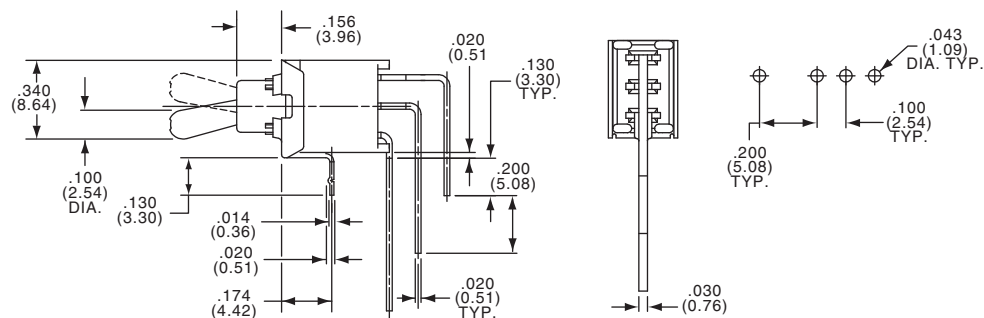


VRA

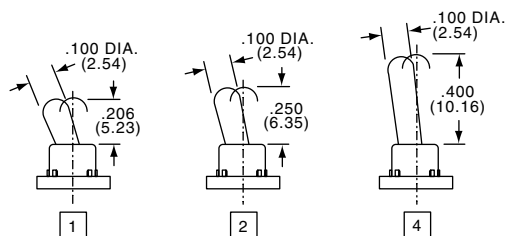
Vertical Right Angle



TST11DGVRA1D



ACTUATORS



Toggle Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

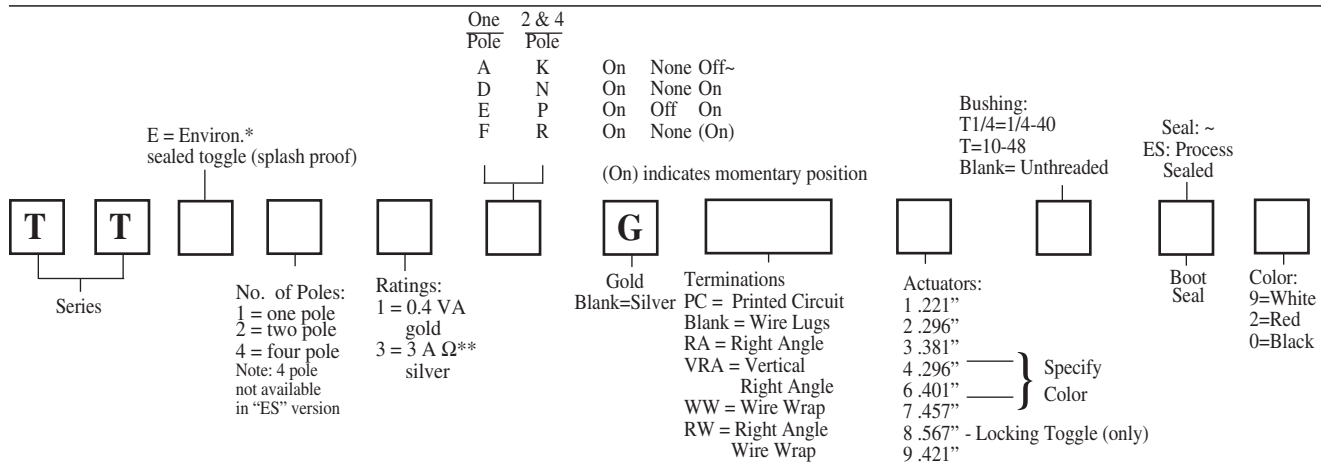
Contacts.....Gold over nickel or silver plate
Case Material.....Thermoplastic 94V-0
Terminals/Fixed Contacts.....Tin lead plate
Terminal Seal.....Epoxy on single pole, optional
on double pole
Process Seal.....ES version only (see page C16 - C17)

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.)

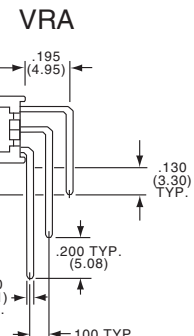
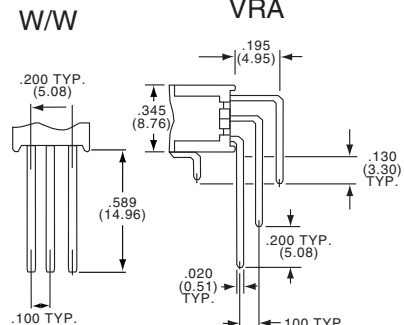
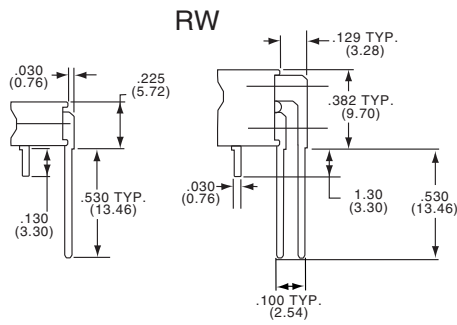
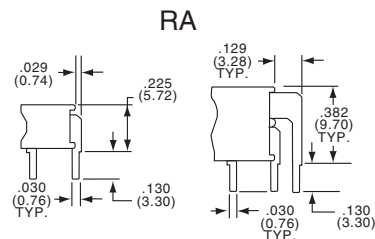
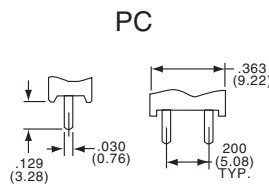
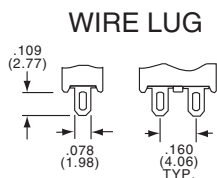
APPLICATION NOTE:

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

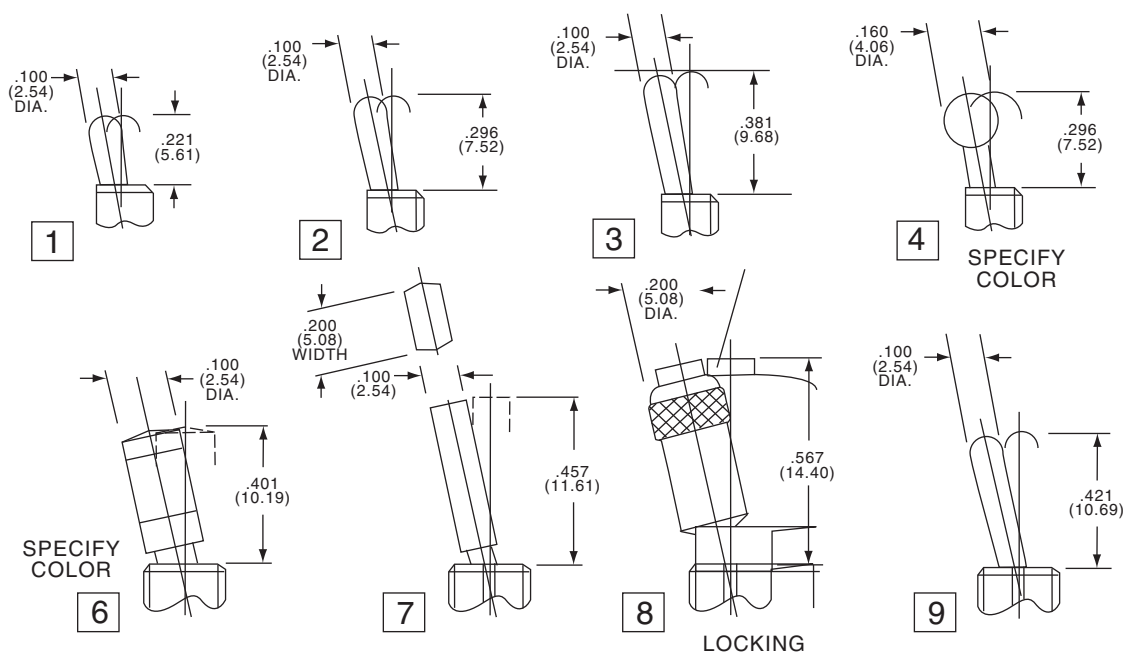
* Not available on 7 actuator or with VRA.
** Not available in RA.
Ω Available in PC & WL only.
~ Available in WL & PC only.

TERMINATIONS

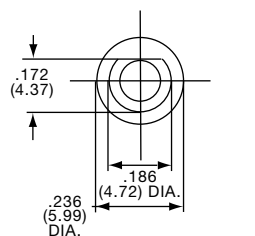
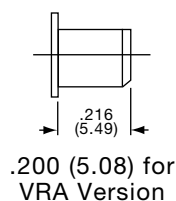


Toggle Switches, Tiny, Actuator and Bushing Options

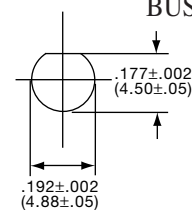
Toggle Cap
Series C-11*
Available



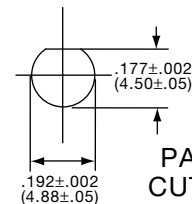
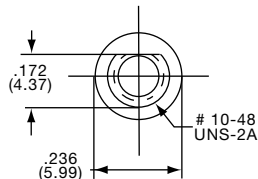
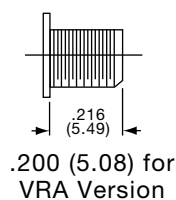
BLANK



BUSHINGS

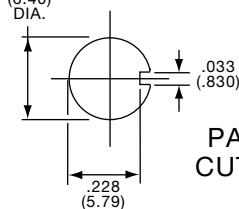
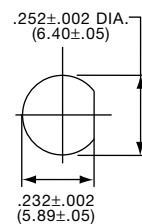
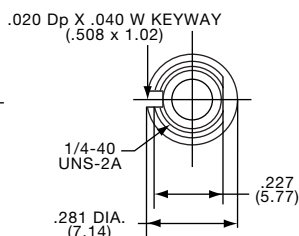
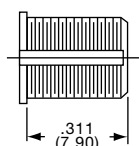


T



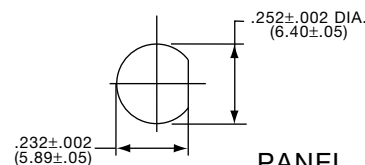
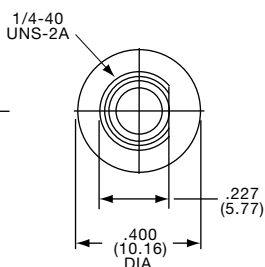
PANEL CUTOUT

T1/4



PANEL CUTOUT

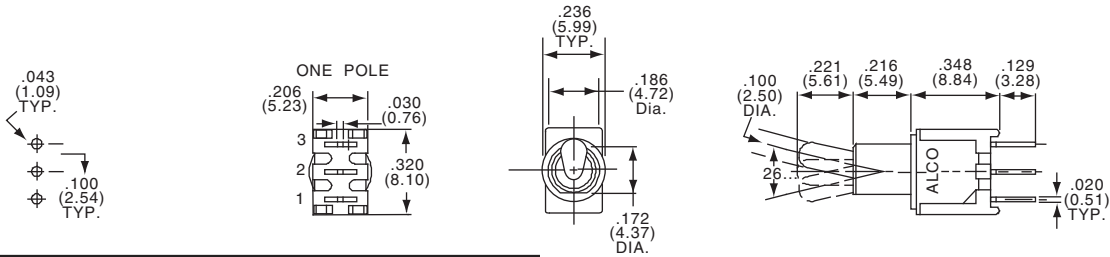
*T1/4



PANEL CUTOUT

*VERSION USED
ON TTE(Enviromental
Sealed) Series

Toggle Switches, Tiny, Vertical, PC Mount



1 POLE

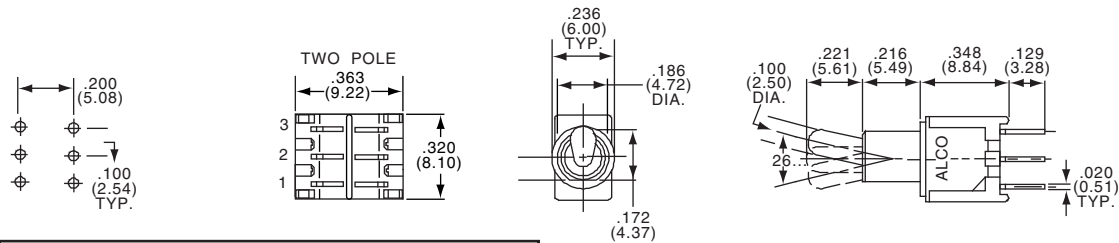
For Terminal Connections refer to Code Chart (see page M5-6)



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

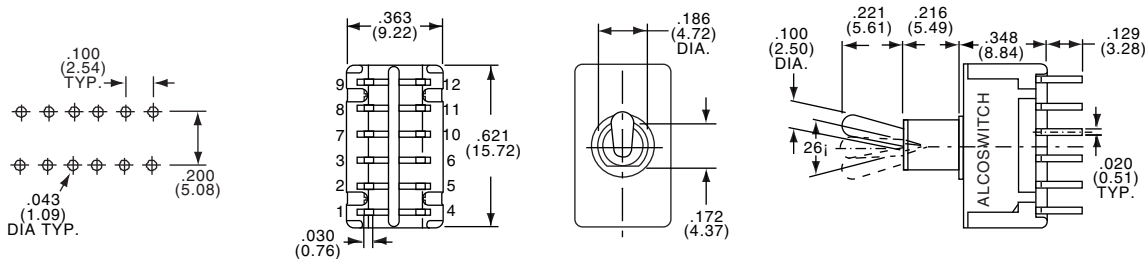
For Terminal Connections refer to Code Chart (see page M5-6)



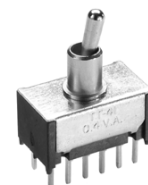
TT21NGPC1

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

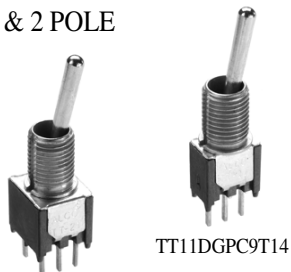
Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	Off
6-1437562-6	TT41NGPC1	4PDT	N		On	None	On

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

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

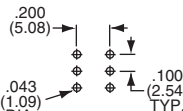
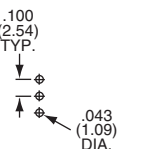
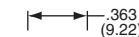
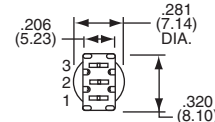
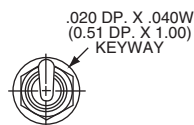
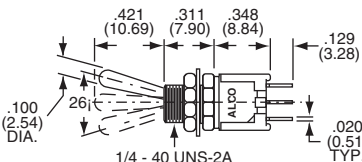
For terminal connections refer to Code Chart on page M5-6

1 & 2 POLE

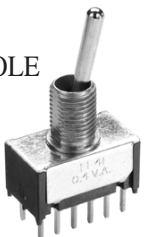


TT11DGPC9T1/4

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.

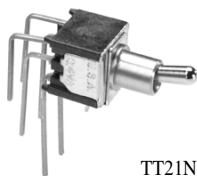
(On) indicates momentary position.

Note: Hardware Included

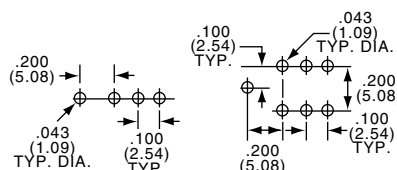
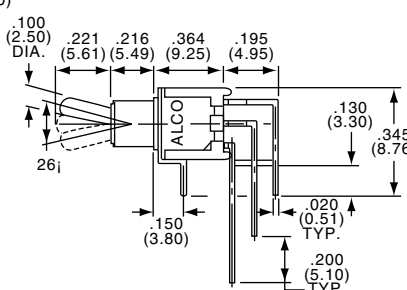
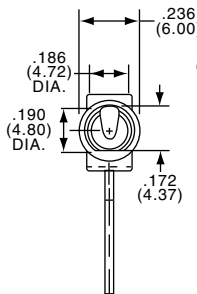
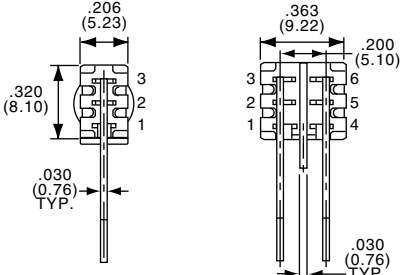
1 & 2 POLE



TT11DGVRA1
Vertical Actuation

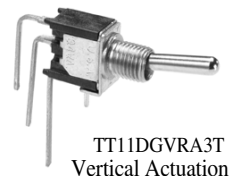


TT21NGVRA1
Vertical Actuation

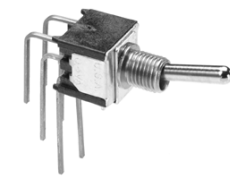


Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5			
4-1437561-8	TT11DGVRA1	SPDT	D	On	None	On			
6-1437561-9	TT11EGVRA1	SPDT	E	On	Off	On			
2-1437562-2	TT21NGVRA1	DPDT	N	On	None	On			
4-1437562-3	TT21PGVRA1	DPDT	P	On	Off	On			

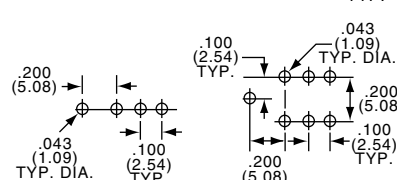
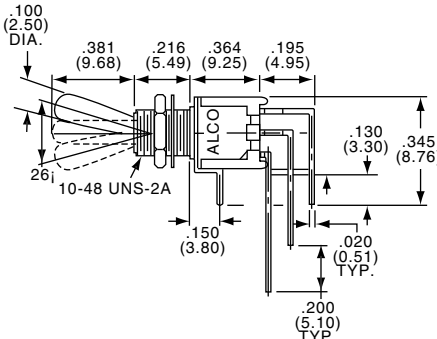
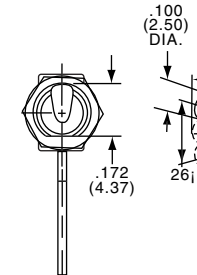
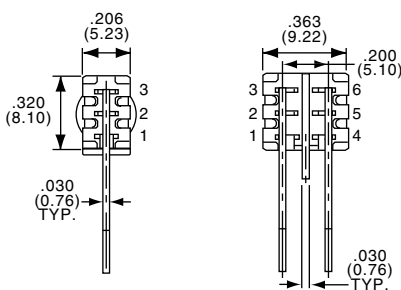
1 & 2 POLE



TT11DGVRA3T
Vertical Actuation



TT21NGVRA3T
Vertical Actuation



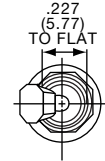
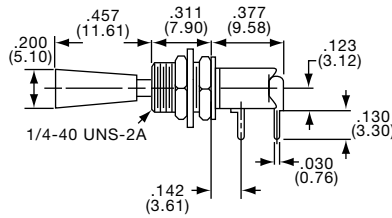
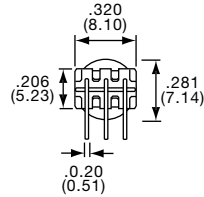
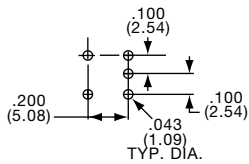
Tyco Electronics	Alcoswitch	Type	Act.	Code	P.	M5			
4-1437561-9	TT11DGVRA3T	SPDT	D	On	None	On			
7-1437561-0	TT11EGVRA3T	SPDT	E	On	Off	On			
2-1437562-3	TT21NGVRA3T	DPDT	N	On	None	On			

Toggle Switches, Tiny, Right Angle, Flat Actuator

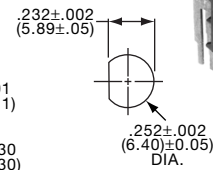
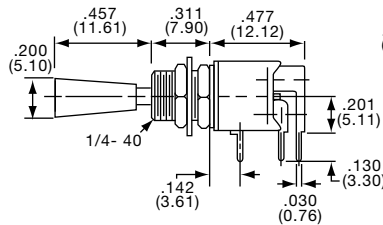
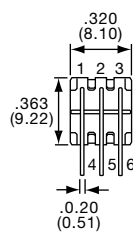
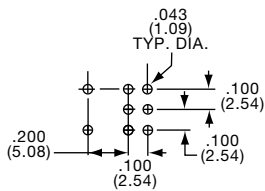
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

* Refer to Page C8 for
Other Options *

1 & 2 POLE FLAT



TT11DGRA7T1/4
Horizontal Actuation



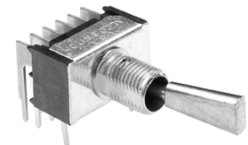
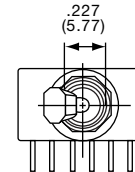
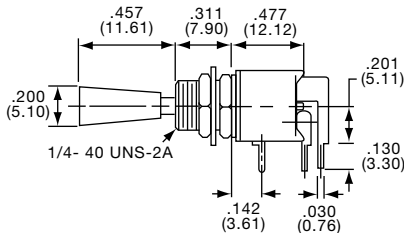
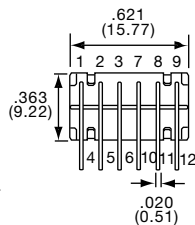
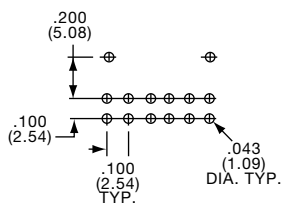
TT21NGRA7T1/4
Horizontal Actuation

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

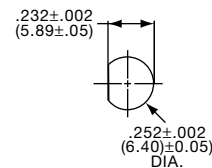
(On) indicates momentary position

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

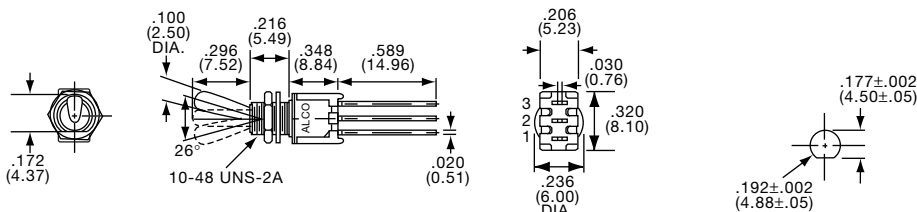
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

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

1 POLE



TT11DGWW2T

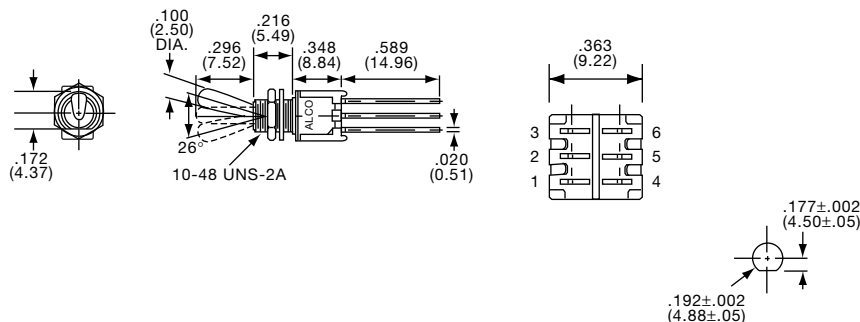


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
5-1437561-0	TT11DGWW2T	SPDT	D	On None On
7-1437561-1	TT11EGWW2T	SPDT	E	On Off On

2 POLE

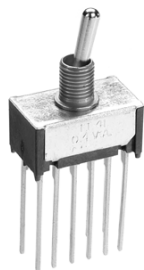


TT21NGWW2T

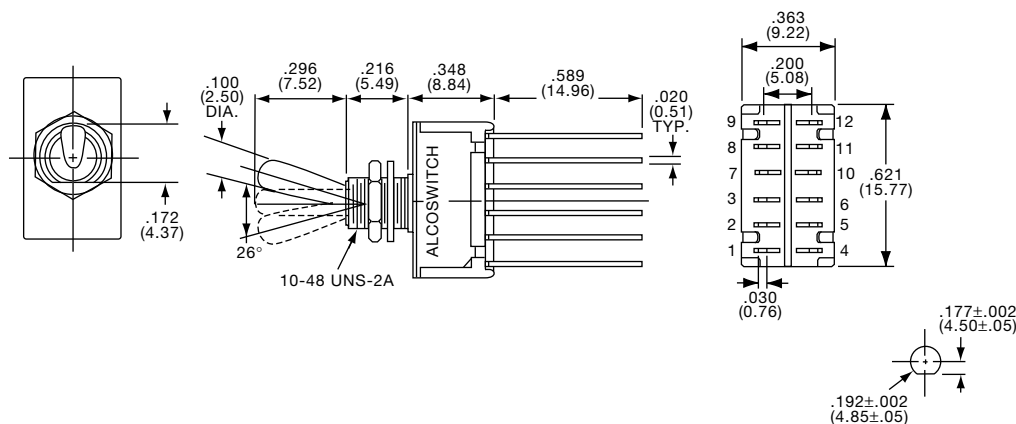


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
2-1437562-4	TT21NGWW2T	DPDT	N	On None On
4-1437562-4	TT21PGWW2T	DPDT	P	On Off On

4 POLE



TT41NGWW2T



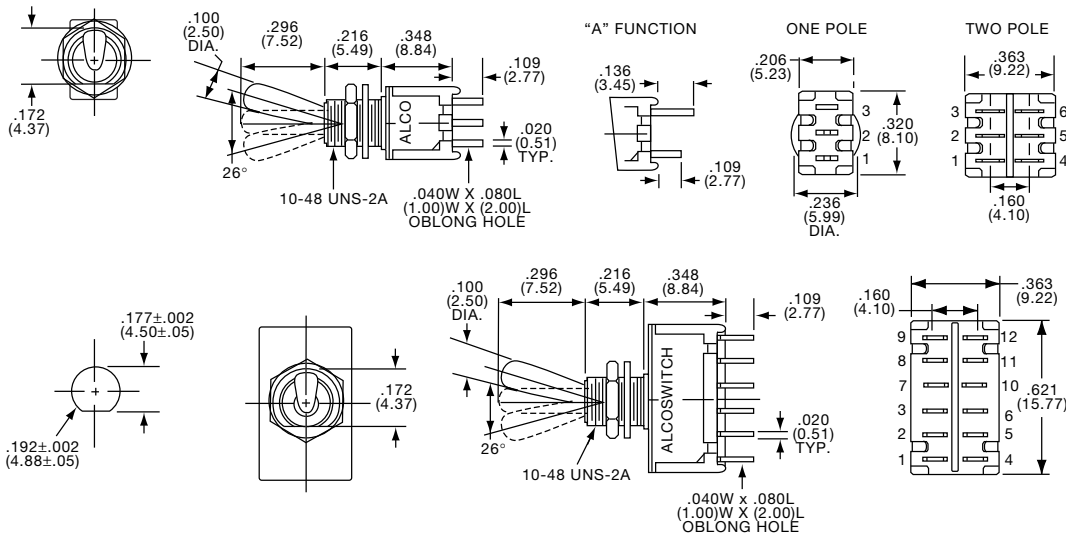
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	
7-1437562-4	TT41NGWW2T	4PDT	N	On None On

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

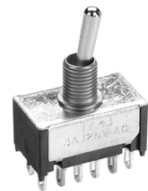


TT13D2T



TT23N2T

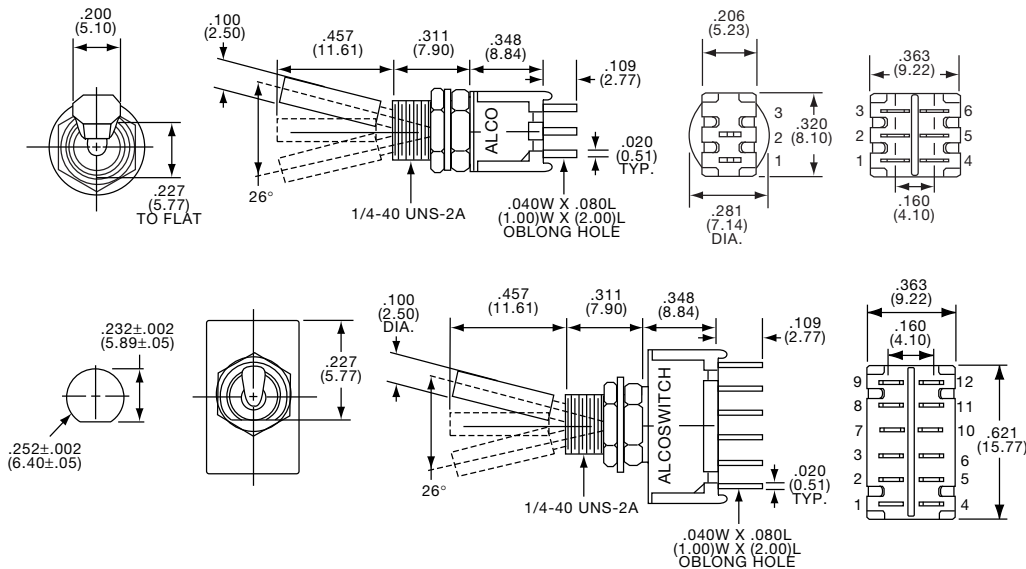
4 POLE



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

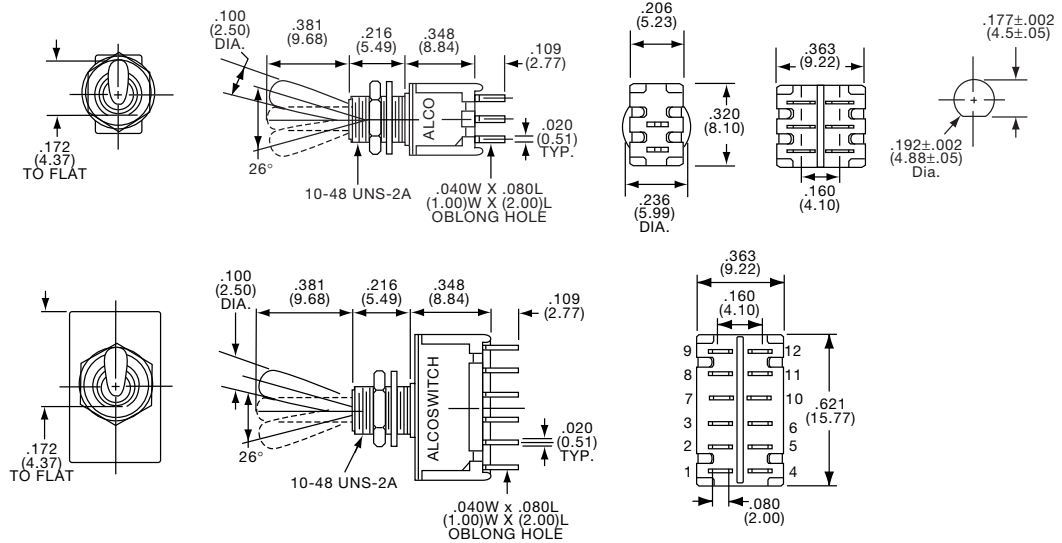
1 & 2 POLE



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.

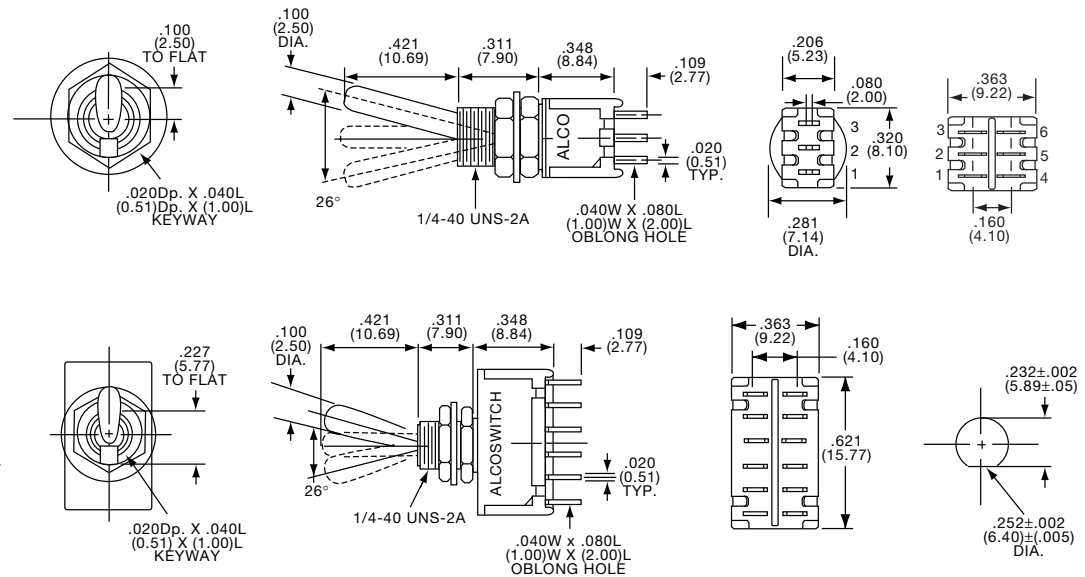
1 & 2 POLE



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

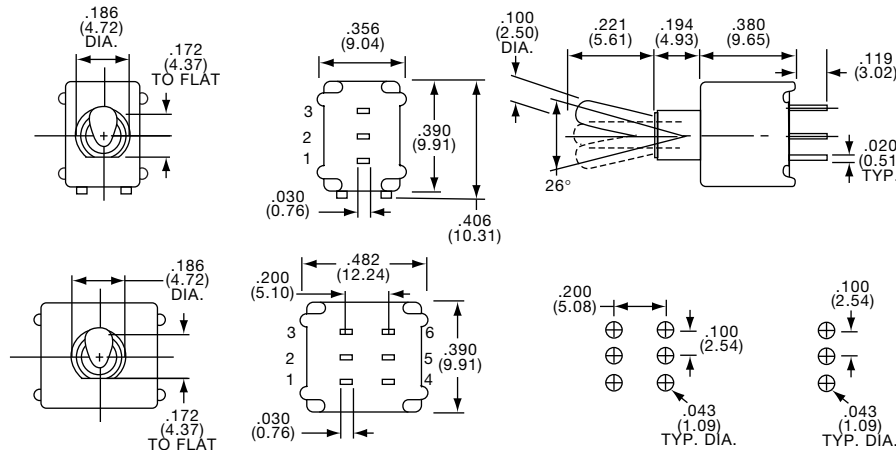
ENVIRONMENTAL SPECIFICATIONS

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

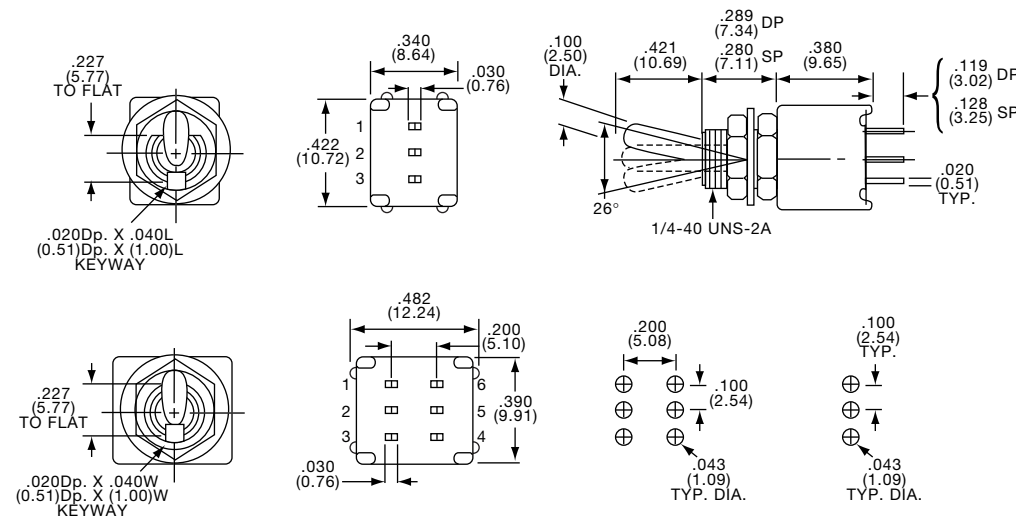


TT11DGPC1ES

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

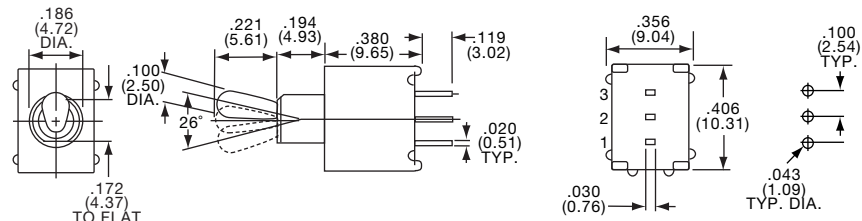
(On) indicates momentary position.

Toggle Switches, Tiny, Enviromental and Process Sealed

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

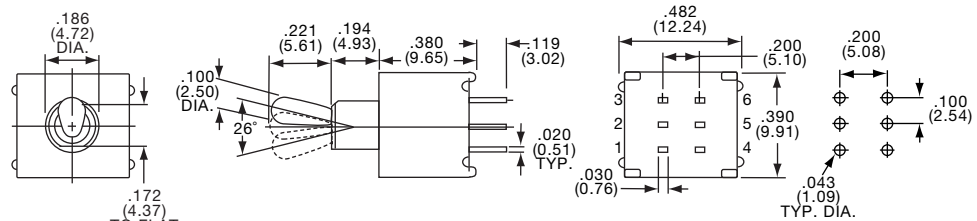
For terminal connections refer to Code Chart on page M5-6

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

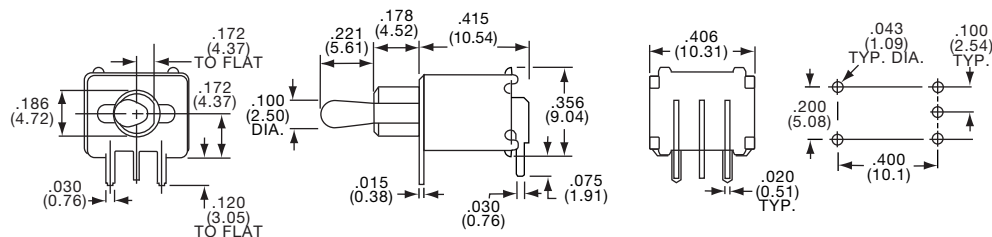


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1437563-1	TTE21NGPC1ES	DPDT	N	On	None	On
	TTE21PGPC1ES	DPDT	P	On	Off	On

1 POLE-PC RIGHT ANGLE



TTE11DGRA1ES
Horizontal Actuation

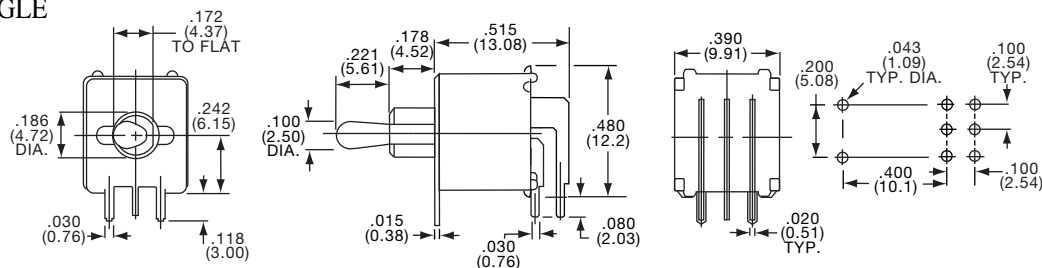


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
8-1437562-9	TTE11DGRA1ES	SPDT	D	On	None	On
9-1437562-2	TTE11EGRA1ES	SPDT	E	On	Off	On

2 POLE-PC RIGHT ANGLE



TTE21NGRA1ES
Horizontal Actuation



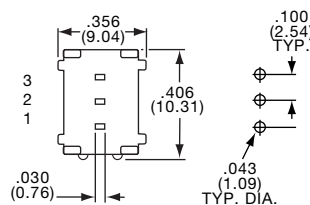
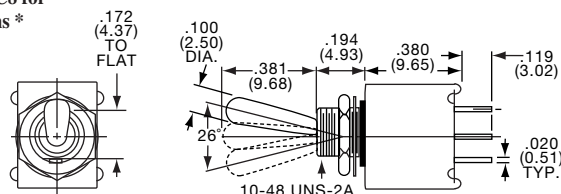
Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	On	None	On
1437563-4	TTE21NGRA1ES	DPDT	N	On	None	On
	TTE21PGRA1ES	DPDT	P	On	Off	On

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 *



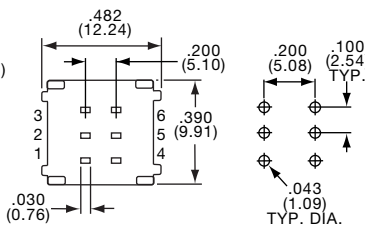
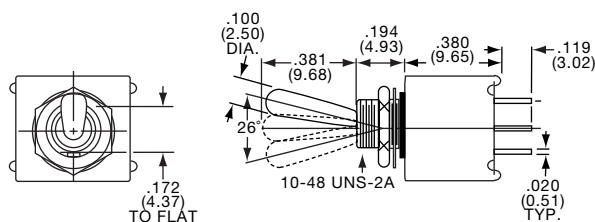
1 POLE



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.

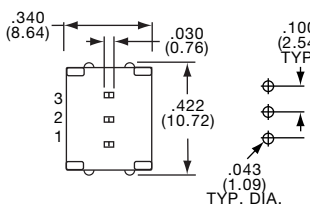
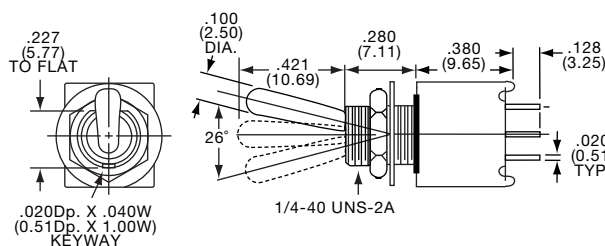


2 POLE



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



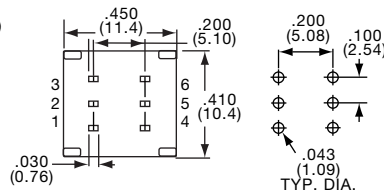
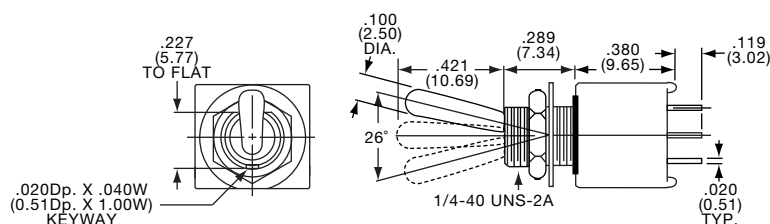
1 POLE



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

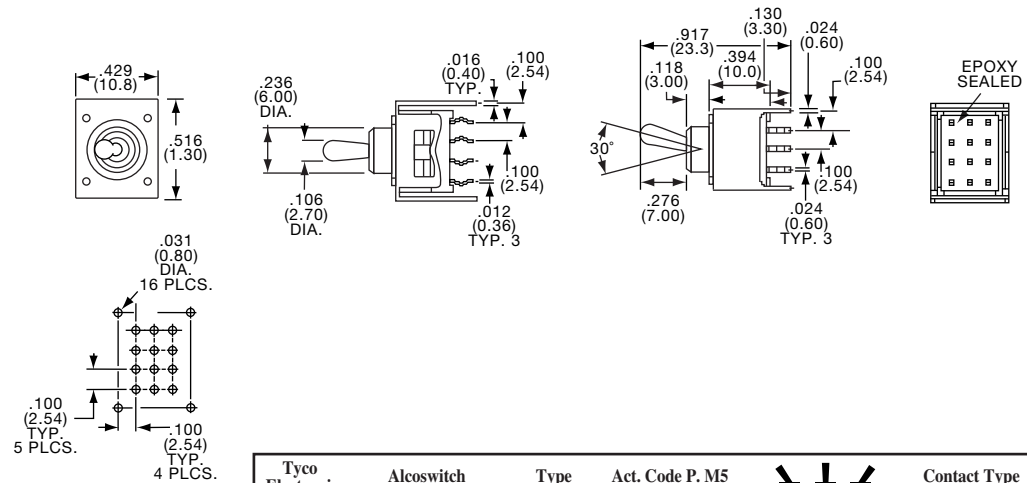
ENVIRONMENTAL SPECIFICATIONS

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

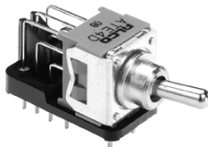


ATE4DGPC2

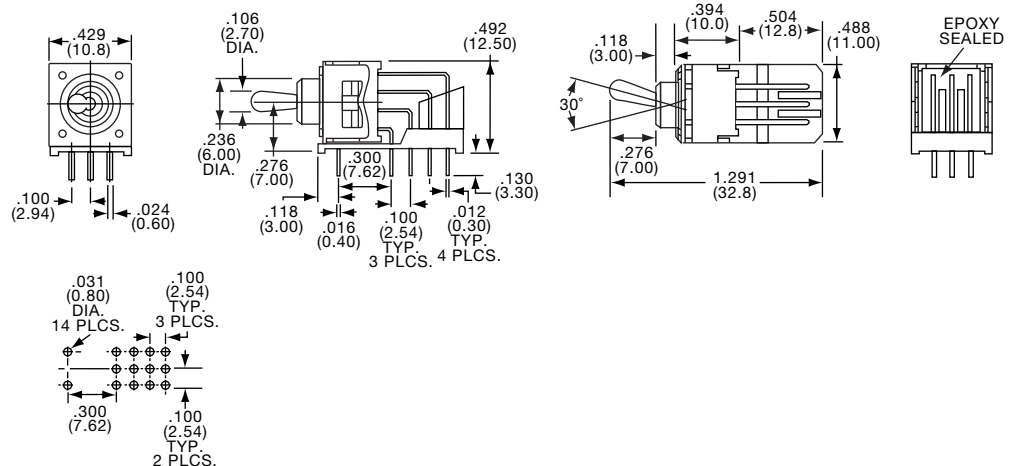


Tyco Electronics	Alcoswitch	Type	Act. Code P. M5		Contact Type
2-1437557-1	ATE4DGPC2	4PDT	8	On None On	Gold

4PDT



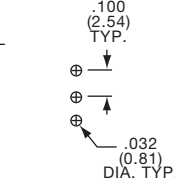
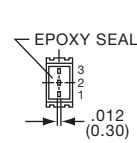
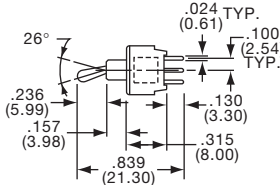
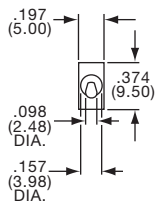
ATE4DGRA2



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

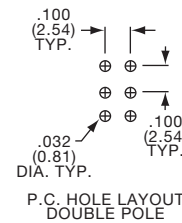
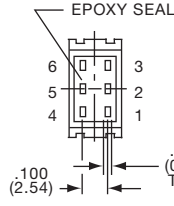
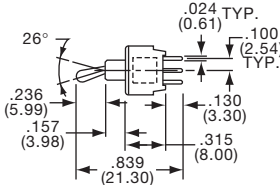
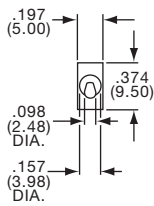


P.C. HOLE LAYOUT
SINGLE POLE

SPDT/DPDT



ATE1DGPC1



P.C. HOLE LAYOUT
DOUBLE POLE

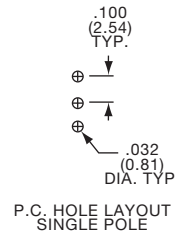
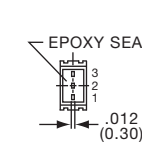
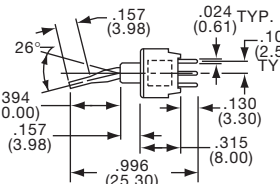
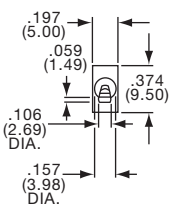
Extra compact double pole saves PCB real estate.



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						

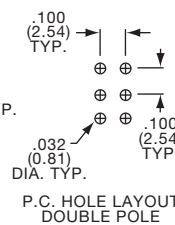
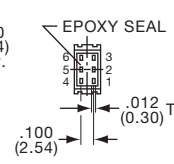
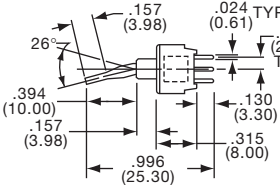
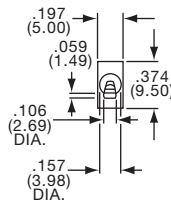
SPDT/DPDT



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						

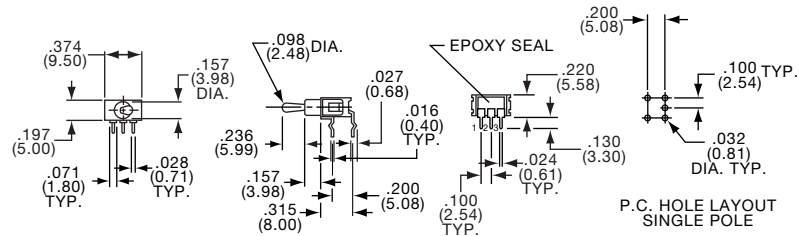
Toggle Switches, Process Sealed, Right Angle, Retention Feature

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



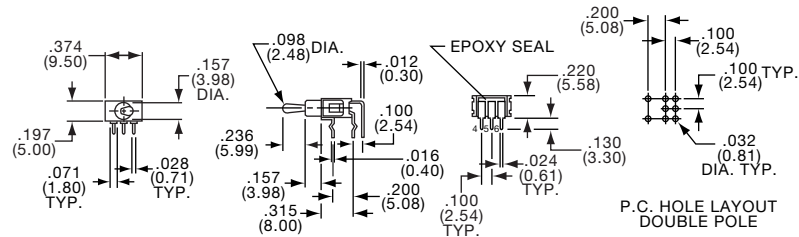
ATE1DGRA1
Horizontal Actuation



Extra compact double pole
saves PCB real estate.



ATE2DGRA1
Horizontal Actuation

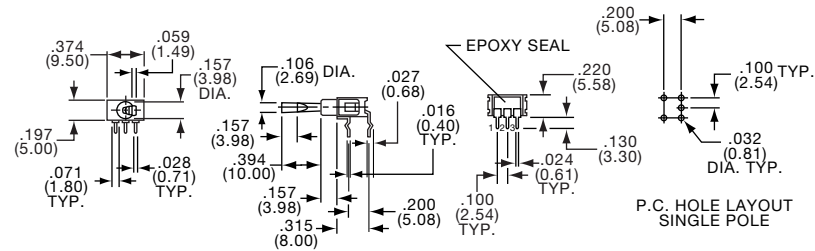


Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type
1437557-4	ATE1DGRA1	SPDT	On	None	On	Gold	1-1437557-7	ATE2DGRA1	DPDT	On	None	On	Gold
1437557-8	ATE1EGRA1	SPDT	On	Off	On	Gold	3-1437592-7	ATE2EGRA1	DPDT	On	Off	On	Gold
1-1437557-0	ATE1FGRA1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

SPDT/DPD



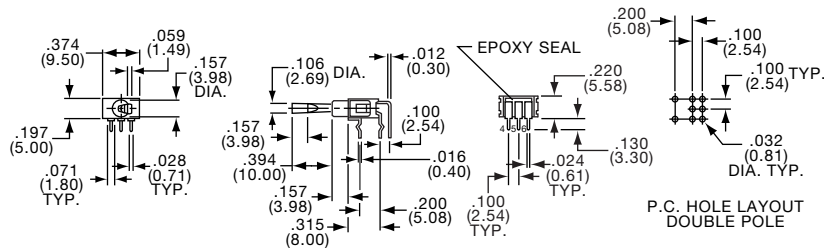
ATE1DGRA7
Horizontal Actuation



Extra compact double pole
saves PCB real estate.



ATE2DGRA7
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	On	None	On	Contact Type	Tyco Electronics	Alcoswitch	Type	On	None	On	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:							(On) indicates momentary position.						
(On) indicates momentary position.							(On) indicates momentary position.						