









CONTACT RATING: Dependent upon contact material See page 17.

MECHANICAL LIFE: 30,000 make-and-break cycles. **CONTACT RESISTANCE:** 10 m Ω max. initial @ 2-4VDC 100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 M Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE & BUSHING: Glass filled nylon 6/6,flame retardant.heat

stabilized (UL94v-0).

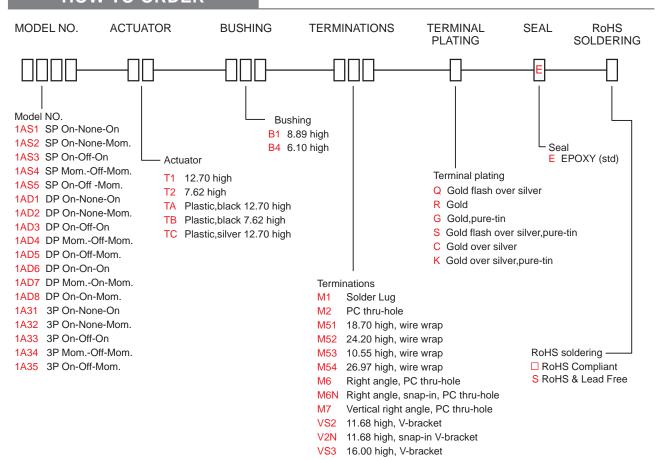
ACTUATOR: Brass, chrome plated with internal, O-ring seal standard.

SWITCH SUPPORT: Brass or steel,tin plated. **SWITCH SUPPORT RETAINER:** Stainless steel.

CONTACT / TERMINALS: Copper alloy, with Silver or gold plated.

(See Page 17)

HOW TO ORDER



1 A Toggle Switches

SWITCH FUNCTION

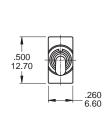
			CWITCH FUNCTION		CONNECTED TERMINALS (COLUMN TIC			
			SWITCH FUNCTION		TION	CONNECTED TERMINALS / SCHEMATIC		
NO. POLES	UL/CSA MODEL	MODEL	POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
POLES	NO.	NO.	7		4),	.	
SP	Q11A11	1AS1	ON	NONE	ON		NI/A	
	Q11A12	1AS2	ON	NONE	МОМ	2-3	N/A	2-1
	Q11A13	1AS3	ON	OFF	ON	2-3 •(2 (COMM)		2-1 • 2 (COMM)
	Q11A14	1AS4	MOM	OFF	МОМ	1• 3	OPEN	1 • 3
	Q11A15	1AS5	ON	OFF	МОМ			
DP	Q11A21	1AD1	ON	NONE	ON			
	Q11A22	1AD2	ON	NONE	МОМ	2-3,5-6	N/A	2-1,5-4
	Q11A23	1AD3	ON	OFF	ON	•2 (COMM) 5•		• 2 (COMM) 5•
	Q11A24	1AD4	MOM	OFF	МОМ	1 • 2 (COMM) 5 • 6	OPEN	1 3 4 6
	Q11A25	1AD5	ON	OFF	МОМ			
	Q11A26	1AD6	ON	ON	ON			
_	Q11A27	1AD7	MOM	ON	МОМ	2-3,5-6	2-3,5-4	2-1,5-4
A	Q11A28	1AD8	ON	ON	МОМ			
3P	Q11A31	1A31	ON	NONE	ON		NI/A	
	Q11A32	1A32	ON	NONE	MOM	2-3,5-6,8-9	N/A	2-1,5-4,8-7
	Q11A33	1A33	ON	OFF	ON			5° (COMM) 8° 10 • 3 4 • 6 7 • 9
	Q11A34	1A34	MOM	OFF	MOM	1 • 2 3 4 • 6 7 • 9	OPEN	1 3 4 6 7 9
	Q11A35	1A35	ON	OFF	МОМ			

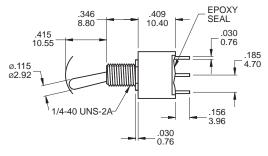
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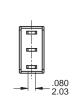
▲ Please check the availability in advance before order

POLE OPTIONS









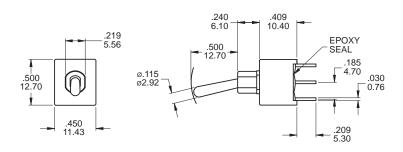
SPDT

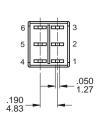
Part No. Shown: 1AS1T1B1M1QE



1 A Toggle Switches



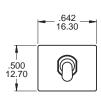


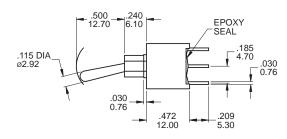


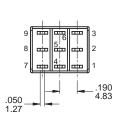
DPDT

Part No. Shown: 1AD1T1B4M2QE









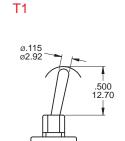
3PDT

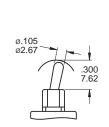
Part No. Shown: 1A31T1B4M2QE

T2

ACTUATOR OPTIONS

Actuator shown with standard B4 Bushing, Subtract .085 (2.15) for B1 bushing.





TA TB

0.115
02.92
0.105
02.67
0.30
7.6

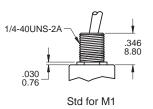
Standard with M1,M2 terminations.

Standard with M6,M7,VS2-3 terminations.

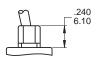
PLASTIC ACTUATOR (TC,Silver)

BUSHING OPTIONS

B1



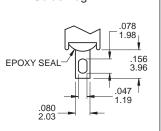
B4



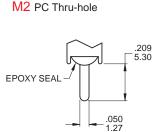
Std for M2, M6, M7, VS termination

TERMINATION OPTIONS

M1 Solder lug

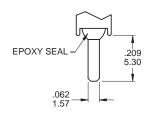


THK .030(0.76)



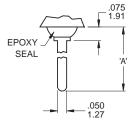
THK .030(0.76)

M3 Quick connect



.030(0.76) THK.

M5 Wire Wrap



THK .030(0.76)

OPTION CODE	DIM. 'A'		
M51	.736 (18.70)		
M52	.953 (24.20)		
M53	.415 (10.55)		
M54	1.062 (26.97)		

P.C. MOUNTING

.200 5.08 4.70

12.7

ø.073 ø1.85

OTHER TERMINATION OPTIONS

M6 Right angle P.C. Mount

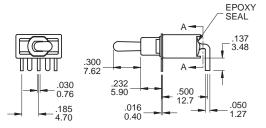
M7 Vertical right angle P.C. Mount

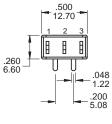
VS2 Vertical bracket P.C. Mount

VS3 Vertical bracket P.C. Mount

M6







SECTION A-A TERM. NOS. FOR REFERENCE ONLY

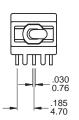
.500 12.70

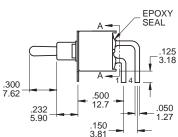
SPDT

Part No. Shown: 1AS1T2B4M6QE

M6

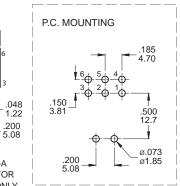






SECTION A-A TERM. NOS. FOR REFERENCE ONLY

.129 3.28

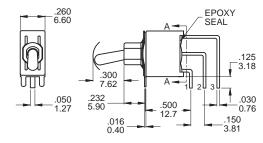


DPDT

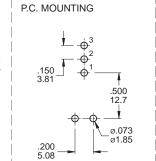
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M7





> SECTION A-A TERM. NOS. FOR REFERENCE ONLY

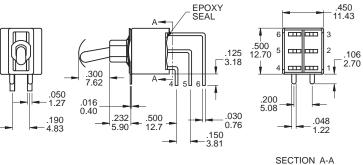


SPDT

Part No. Shown: 1AS1T2B4M7RE

M7





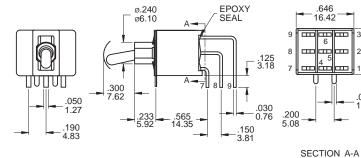
P.C. MOUNTING .190 4.83 ø.073 ø1.85 .200 5.08

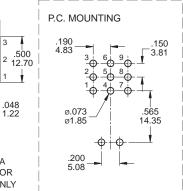
DPDT

Part No. Shown: 1AD1T2B4M7RE

M7





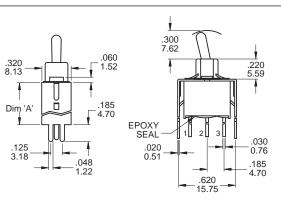


3PDT

Part No. Shown: 1A31T2B4M7QE

VS2 - VS3





OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00

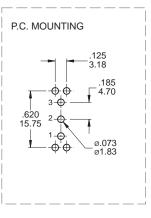
TERM. NOS. FOR

REFERENCE ONLY

.048 1.22

TERM. NOS. FOR

REFERENCE ONLY

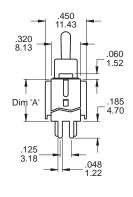


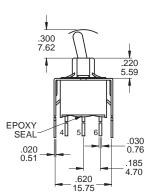
SPDT

Part No. Shown: 1AS1T2B4VS2QE

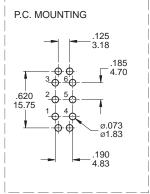
VS2 - VS3







OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



DPDT

Part No. Shown: 1AD1T2B4VS2QE

.460

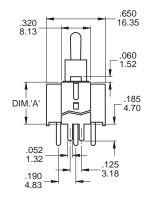
11.68

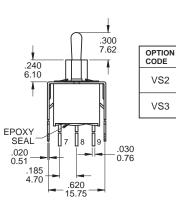
.630

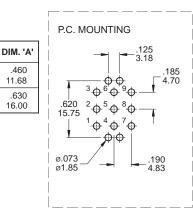
16.00

VS2 - VS3









3PDT

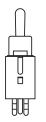
Part No. Shown: 1A31T2B4VS2QE

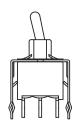
SNAP-IN TERMINATION OPTIONS

M₆N V2N

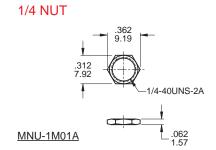


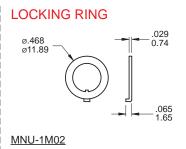






HARDWARE







CONTACT MATERIAL **OPTIONS**

	CONTACT PLATING	TERMINAL PLATING	RATINGS		
Q	Silver	Q = Gold flash over silver			
S	Silvei	S = Gold flash over silver,pure - tin	5 Amps with resistant load @ 120VAC or 28VDC		
С	Gold over Silver	C = Gold over silver	2 Amps with resistant load @ 250VAC		
K	Oold over Sliver	K = Gold over silver,pure - tin			
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)		
G	Goid	G = Gold,pure - tin	0.4 Voit - Amps (VA) max. @ 20V max. (AC 01 DC)		

SOLDERING PROCESSES

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 350°C

approximately 5 seconds while applying solder.

WAVE SOLDERING: Recommended Soldering Temperature: 260 ± 5°C

Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)

SPECIFICATIONS

CONTACT RATING: 0.4Volt-Amps(VA) max.@20V max(AC or DC)

MECHANICAL LIFE: 100,000 make-and-break cycles.

ELECTRICAL LIFE: 50,000 cycles.

CONTACT RESISTANCE: 10 m Ω max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 M Ω min.

DIELECTRIC STRENGTH: 1,000 V RMS@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

GENRAL SPECIFICATIONS

TORQUE: 0.8Nm max. applied to unt.

PANEL THICKNESS: 6mm max. ,2mm min.

MATERIALS

CASE & BUSHING: Glass filled nylon 6/6,flame

retardant.heat stabilized (UL94v-0).

ACTUATOR: Brass, chrome plated with internal, O-ring seal

standard.

SWITCH SUPPORT: Brass or steel,tin plated. **CONTACT / TERMINALS:** Copper alloy,gold plated.

SEALIND: IP67.







SWITCH FUNCTION

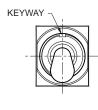
		SWIT	CH FUNC	CTION	CONNECTED TERMINALS / SCHEMATIC		
NO.	MODEL	POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
POLES	NO.	7	.	4	À		
SP	1AS1	ON	NONE	ON		N1/A	
	1AS2	ON	NONE	MOM	2-3	N/A	2-1
	1AS3	ON	OFF	ON	९ 2 (COMM)		9 2 (COMM)
	1AS4	MOM	OFF	MOM	1.3	OPEN	1 • 3
	1AS5	ON	OFF	MOM			
	1AS9	ON	NONE	OFF			ODEN
	1ASD	MOM	NONE	OFF	2-3	N/A	OPEN

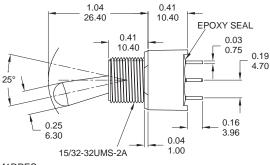
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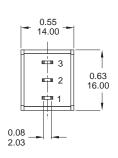
M1



PANEL MOUNTING







Part No. Shown: 1AS1T8B22M1RPES

PANEL MOUNTING / HARDWARE

0.06 0.03 0.03 0.84

