

Datasheet

ENGLISH

Stock No: 394-431

RS Pro Toggle Switch DPDT On-On, 5 A@ 120 V ac, 5 A@ 28 V dc, Panel Mount

Product Details

Large Lever Toggle Switches

Epoxy sealed terminals prevent contamination during soldering

Chrome Plated Brass actuator

Diallyl Phthalate (DAP) case (UL94V-0)

Silver contacts

Note

For biased switches '(on)' refers to momentary 'on' position

Approvals

UL E187490

Toggle Switches

Momentary function (spring- loaded return):	The switch or contact breaker returns to its original position when the load is removed. E.g. bell push)
Stay-put function:	The switch or contact breaker remains (stop) in the new position after the load has been removed.





Specifications

CONTACT RATING: Dependent upon contact material MECHANICAL LIFE: 40,000 make-and-break cycles. CONTACT RESISTANCE: 10m 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: Diallyl phthalate (DAP) (UL94v-0).

ACTUATOR: Brass, chrome plated.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, tin plated.

CONTACT / TERMINALS: Brass, Silver or gold plated.



Switch Function

	PARTICIONE IN	L MODEL	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC				
NO. POLES	MODEL NO.		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3	
			À		4	7	Ā	4	
SP	Q1111	1MS1	ON	NONE	ON	2-3	N/A	2-1	
	Q1112	1MS2	ON	NONE	мом				
	Q1113	1MS3	ON	OFF	ON			200000000000000000000000000000000000000	
	Q1114	1MS4	MOM	OFF	мом		OPEN	1 2 100MM)	
	Q1115	1MS5	ON	OFF	МОМ				
DP	Q1121	1MD1	ON	NONE	ON		N/A	2-1,5-4 2-1,5-4 2-1,5-4	
	Q1122	1MD2	ON	NONE	MOM	2-3,5-6			
	Q1123	1MD3	ON	OFF	ON	8	+. OPEN		
	Q1124	1MD4	MOM	OFF	MOM	1* 13 4* 7°			
	Q1125	1MD5	ON	OFF	MOM				
	Q1126	1MD6	ON	ON	ON	2-3,5-6	2-3,5-4		
	Q1127	1MD7	MOM	ON	MOM				
	Q1128	1MD8	ON	ON	MOM				
3P	Q1131	1M31	ON	NONE	ON	2-3,5-6,8-9	N/A 2-3,5-6,8-9	245407	
	Q1132	1M32	ON	NONE	мом				
	Q1133	1M33	ON	OFF	ON				2-1,5-4,8-7
	Q1134	1M34	MOM	OFF	MOM		9 OPEN	1 3 4 6 7 .s	
	Q1135	1M35	ON	OFF	мом				
4P	Q1141	1M41	ON	NONE	ON	2-3,5-6,8-9,11-12			
	Q1142	1M42	ON	NONE	MOM		N/A	2-1,5-4,8-7,11-10	
	Q1143	1M43	ON	OFF	ON				
	Q1144	1M44	MOM	OFF	мом		OPEN	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Q1145	1M45	ON	OFF	MOM				
	Q1146	1M46	ON	ON	ON	2-3,5-6,8-9,11-12			
	Q1147	1M47	мом	ON	МОМ		2-3,5-6,8-9,11-12 2-3,5-4,8-9,11-10	2-3,5-4,8-9,11-10	2-1,5-4,8-7,11-10
	Q1148	1M48	ON	ON	MOM				

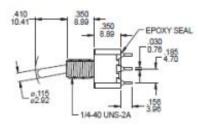


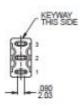


Pole Options





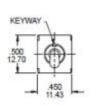


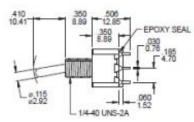


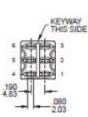
SPDT

Part No. Shown: 1MS1T1B1M1QE





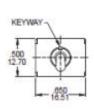


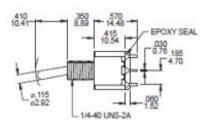


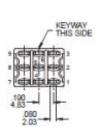
DPDT

Part No. Shown: 1MD1T1B1M1QE





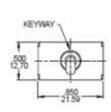


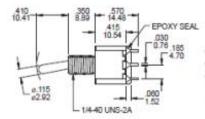


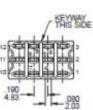
3PDT

Part No. Shown: 1M31T1B1M1QE









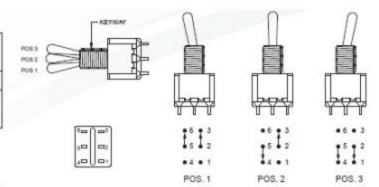
4PDT

Part No. Shown: 1M41T1B1M1QE



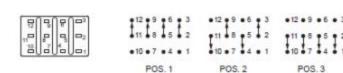
3-Way Switch SINGLE POLE, 3 POSITION

Model No.	POS 1	POS 2	POS 3
1MD6	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

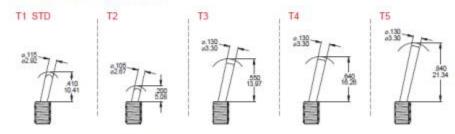


DOUBLE POLE, 3 POSITION

	Model No.	POS 1	POS 2	POS 3
I	1M46	ON	ON	ON
I	Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10

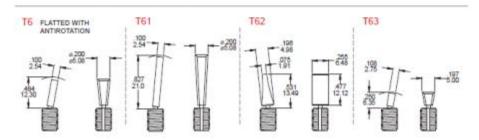


Actuator Options



NOTE T1 ~ T5 Actuator shown with standard B1 Bushing : Add .070 (1.78) for B3 Bushing;

Subtract .020 (0.51) for B6 Bushing; Std for M1, M2 Terminal sub .016 (0.40) for M6, M7, VSX



NOTE T6,T6-1,T6-2,T63 use with B11, B12, B15, B16 bushing only.



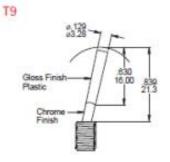
Actuator Options



Use with B13 bushing Use with B18,B20 the lever is antirotation and the size of lever is 13,00mm

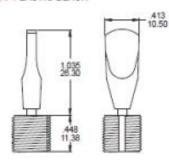
15/32-32 UNS-2A 17.56 17.56 17.56 17.56

Use with B13 bushing Use with B18,B20 the lever is antirotation and the size of lever is 18,00mm



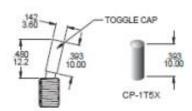
B1 / B2 bushing std with black and red color only (std.)

TA PLASTIC BLACK



Use with B18 bushing only

T11



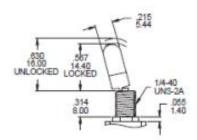
NOTE T11Actuator shown with standard B1 Bushing; Add .070 (1.78) for B3 Bushing; Subtract .020 (0.51) for B6 Bushing. Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.VSX

Plastic No.Color:

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

T62 , TA , T9 , T11 ACTUATOR ONLY

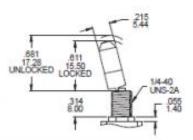
TL1B25

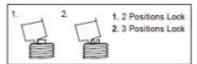


TL2B25

64D 579 16.20 14.73 UNLOCKED LOCKED 1/4-40 UNS-2A 0.55 1.40

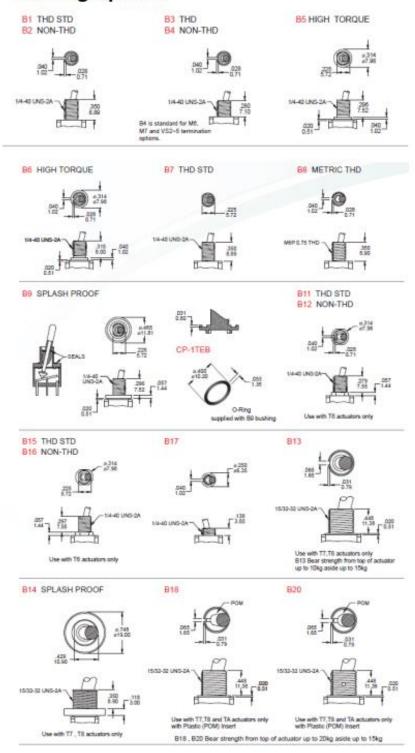
TL3B25







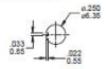
Bushing Options





Panel Mounting

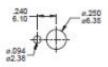
1/4 IN BUSHING



Without looking ring (Keyway)

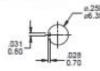


Without looking ring (Flat)

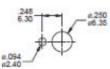


With standard locking ring.

METRIC BUSHING

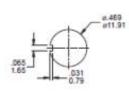


Without looking ring (Keyway)

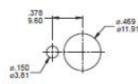


With standard looking ring.

15/32 IN BUSHING



Without looking ring (Keyway)



With standard locking ring.

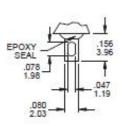
SPLASH PROOF BUSHING



Without locking ring (Flat)

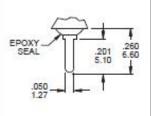
Termination Options

M1 Solder lug



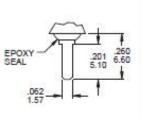
.030(0.76) THK.

M2 PC Thru-hole



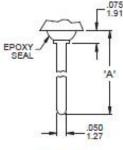
.030(0.76) THK.

M3 Quick connect



.030(0.76) THK.

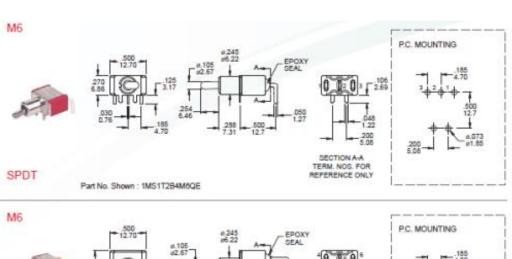
M5 Wire Wrap

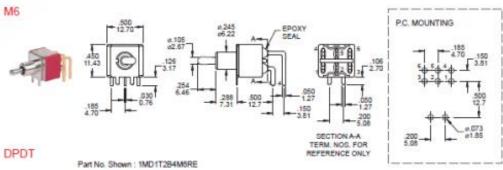


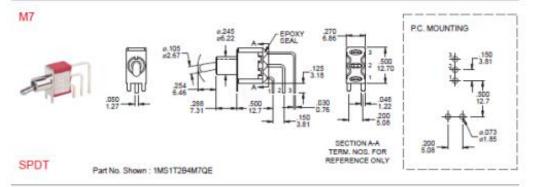
.030(0.76) THK.

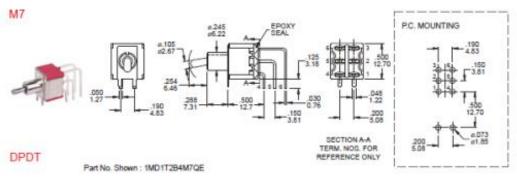








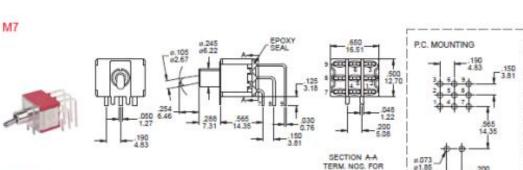




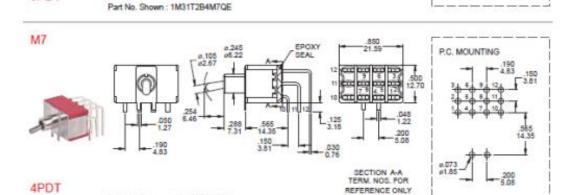


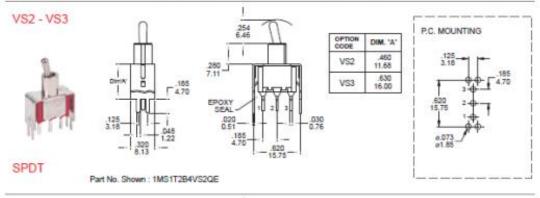


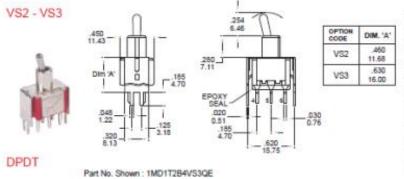
3PDT



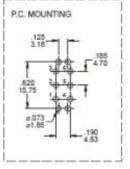
REFERENCE ONLY







Part No. Shown: 1M41T2B4M7QE



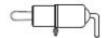




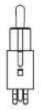
Snap - In Termination Options

M6N





V2N





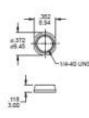
Hardware

1/4 NUTS HDW2

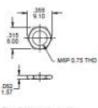


Supplied standard with B1, B3, B5, B6 and B9 options

DRESS NUT HDW3



METRIC NUT HDW6



Supplied standard with B8 metric bushing

LOCK WASHER HDW11



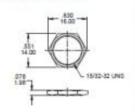
Supplied standard with B1 / B3 bushing

OPTIONAL RUBBER HOOD SEALING



K1=Metric E1=Inch (Std.) for actuator T1, T2 and B1, B3, B6, B6 Bushing only

15/32 NUTS HDW4



Supplied standard with B13 bushing

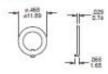
LOCK WASHER HDW12



1.0

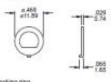
Supplied standard with B13 bushing

HDW15



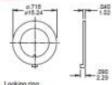
Locking ring supplied standard

HDW16



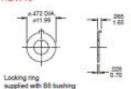
Looking ring supplied with B5 bushing

HDW17

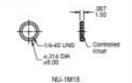


Looking ring supplied with 813,818,820 bushing

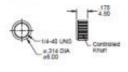
HDW18



HDW19



HDW20



NU-1M24



Optional Toggle Cap

CP-T1XX



Use with T1

CAP	CORO	

ITEM NO	COLOR			
1	White			
2	Black (Std)			
3	Red			
5	Yellow			
6	Green			
7	Blue			
9	Gray			

Contact Material Options

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	
S	Silver	S = 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	Gold over Silver	K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G	Gold	G = Gold,pure - tin	0.4 Voit - Amps (VA) max. (@ 20V max. (AC or 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)