



#### **Datasheet**

# SPDT Toggle Switch On-(ON), 5 A, Panel Mount

**RS Stock number 734-7117** 



#### **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 $\Omega$  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

			SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC				
NO. POLES	MODEL	MODEL NO.	POS.1	POS.2	POS.3	POS.1	POS.2	POS.3	
	NO.		1	4	4	À	<b>.</b>	4	
SP	Q1111	1MS1	ON	NONE	ON		N/A		
	Q1112	1MS2	ON	NONE	MOM	2-3	NA	2-1	
	Q1113	1MS3	ON	OFF	ON				
	Q1114	1MS4	МОМ	OFF	MOM	1. \(\frac{2}{3}(COMM)\)	OPEN	2 (COMM)	
	Q1115	1MS5	ON	OFF	MOM				
DP	Q1121	1MD1	ON	NONE	ON		N/A		
	Q1122	1MD2	ON	NONE	MOM	2-3,5-6	NA	2-1,5-4	
	Q1123	1MD3	ON	OFF	ON				
	Q1124	1MD4	МОМ	OFF	MOM	1. 12 (COMM) 55 6	OPEN	1 × 3 4 • 6	
	Q1125	1MD5	ON	OFF	MOM				
	Q1126	1MD6	ON	ON	ON				
<b>A</b>	Q1127	1MD7	МОМ	ON	MOM	2-3,5-6	2-3,5-4	2-1,5-4	
<b>A</b>	Q1128	1MD8	ON	ON	MOM				
3P	Q1131	1M31	ON	NONE	ON		N/A		
	Q1132	1M32	ON	NONE	MOM	2-3,5-6,8-9		2-1,5-4,8-7	
	Q1133	1M33	ON	OFF	ON				
	Q1134	1M34	МОМ	OFF	MOM	1 - 2 5 (COMM) 8 7 9	OPEN 12.		
	Q1135	1M35	ON	OFF	MOM				
4P	Q1141	1M41	ON	NONE	ON		N/A		
	Q1142	1M42	ON	NONE	MOM	2-3,5-6,8-9,11-12		2-1,5-4,8-7,11-10	
	Q1143	1M43	ON	OFF	ON	1. 12 1 NCOMM 24 119 120 120		1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	Q1144	1M44	МОМ	OFF	MOM	յուհցվուհը չուհցվուհ <u>։</u>	OPEN	14 = 2 44 = 6 74 = 9 704 = 12	
	Q1145	1M45	ON	OFF	MOM				
	Q1146	1M46	ON	ON	ON				
<b>A</b>	Q1147	1M47	МОМ	ON	MOM	2-3,5-6,8-9,11-12	2-3,5-4,8-9,11-10	2-1,5-4,8-7,11-10	
<b>A</b>	Q1148	1M48	ON	ON	MOM				

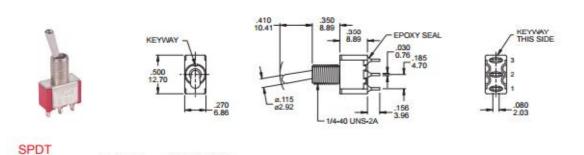
MOM= MOMENTARY

A Please check the availability in advance before order

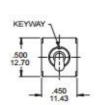
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



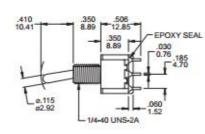
#### POLE OPTIONS

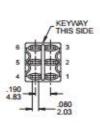






Part No. Shown: 1MS1T1B1M1QE

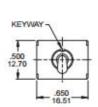


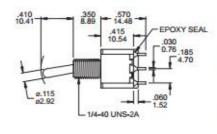


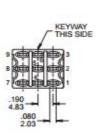
DPDT

Part No. Shown: 1MD1T1B1M1QE





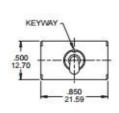


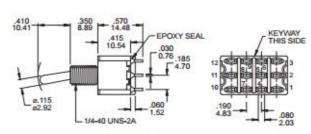


3PDT

Part No. Shown: 1M31T1B1M1QE



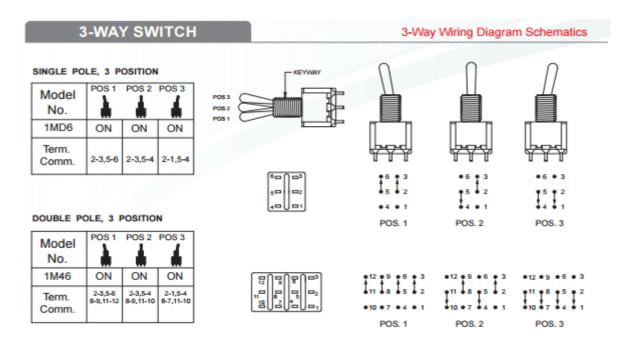




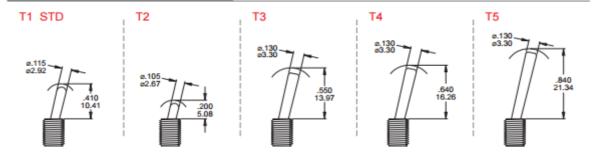
4PDT

Part No. Shown: 1M41T1B1M1QE

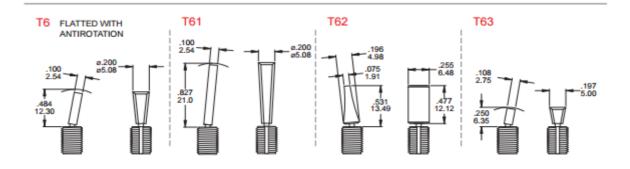




#### **ACTUATOR OPTIONS**

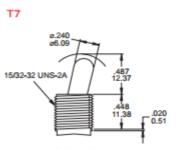


NOTE T1 ~ T5 Actuator shown with standard B1 Bushing :
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing ;
Std for M1 , M2 Terminal sub .016 (0.40) for M6 , M7 , VSX



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

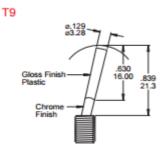




Use with B13 bushing Use with B18,B20 the lever is antirotation and the size of lever is 13.00mm

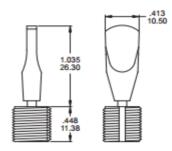
# T8 15/32-32 UNS-2A

Use with B13 bushing Use with B18,B20 the lever is antirotation and the size of lever is 18.00mm



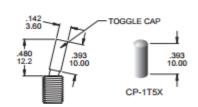
B1 / B2 bushing std with black and red color only ( std. )

#### TA PLASTIC BLACK



Use with B18 bushing only

#### T11

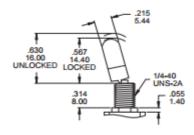


NOTE T11Actuator shown with standard B1 Bushing; Add .070 ( 1.78 ) for B3 Bushing ; Subtract .020 ( 0.51 ) for B6 Bushing. Std for M1.M2 Terminal sub .016 (0.40 ) for M6.M7.VSX

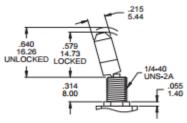
#### Plastic No.Color:

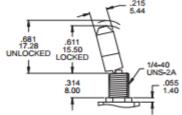
ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

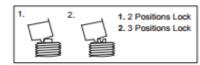
#### TL1B25



#### TL2B25



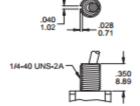




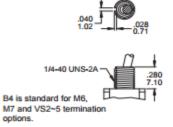
TL3B25

#### **BUSHING OPTIONS**

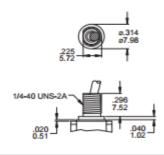




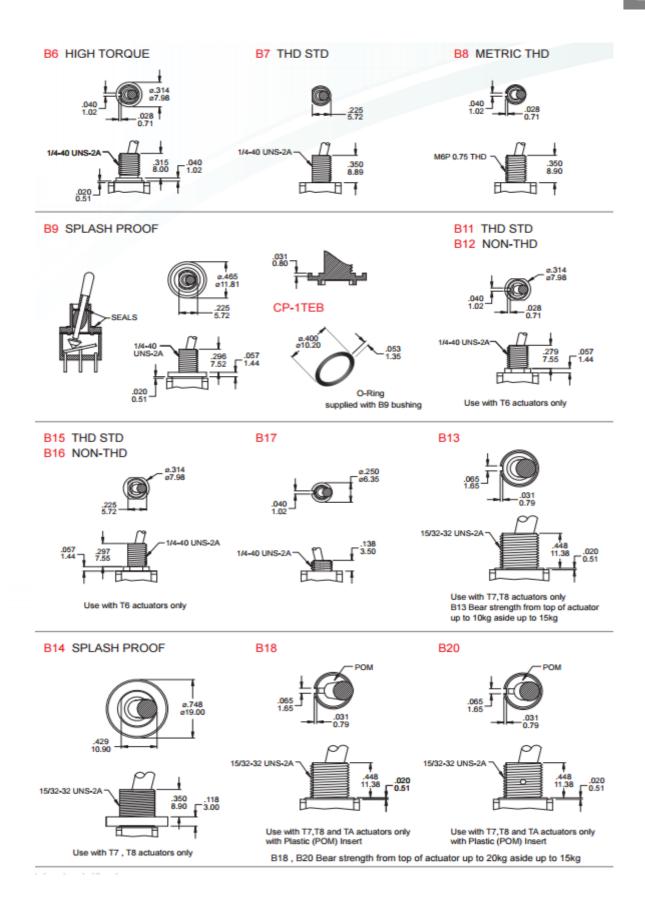
# **B4 NON-THD**



#### **B5 HIGH TORQUE**

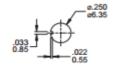






#### PANEL MOUNTING

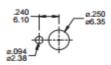
#### 1/4 IN BUSHING



Without locking ring (Keyway)

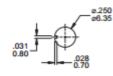


Without locking ring (Flat)

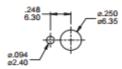


With standard locking ring.

#### METRIC BUSHING

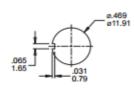


Without locking ring (Keyway)

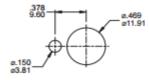


With standard locking ring.

#### 15/32 IN BUSHING



Without locking ring (Keyway)



With standard locking ring.

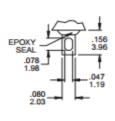
#### SPLASH PROOF BUSHING



Without locking ring (Flat)

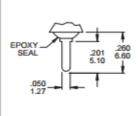
#### **TERMINATION OPTIONS**





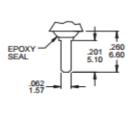
.030(0.76) THK.

#### M2 PC Thru-hole



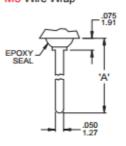
.030(0.76) THK.

#### M3 Quick connect



.030(0.76) THK.

#### M5 Wire Wrap



.030(0.76) THK.

#### OTHER TERMINATION OPTIONS

M6 RIGHT ANGLE P.C. MOUNT

M7 RIGHT ANGLE P.C. MOUNT

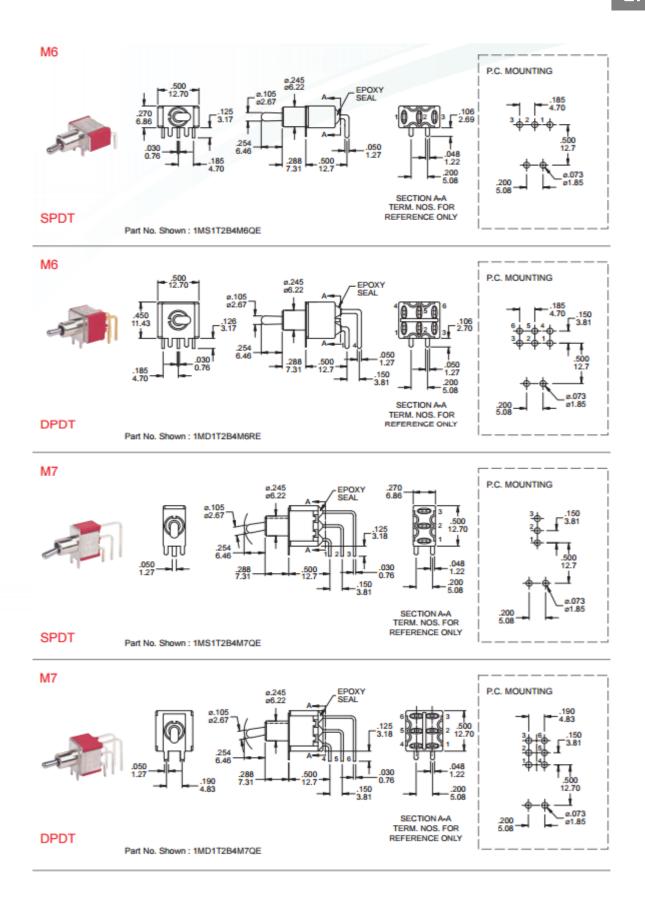
VS2 VERTICAL BRACKET P.C. MOUNT

VS3 VERTICAL BRACKET P.C. MOUNT

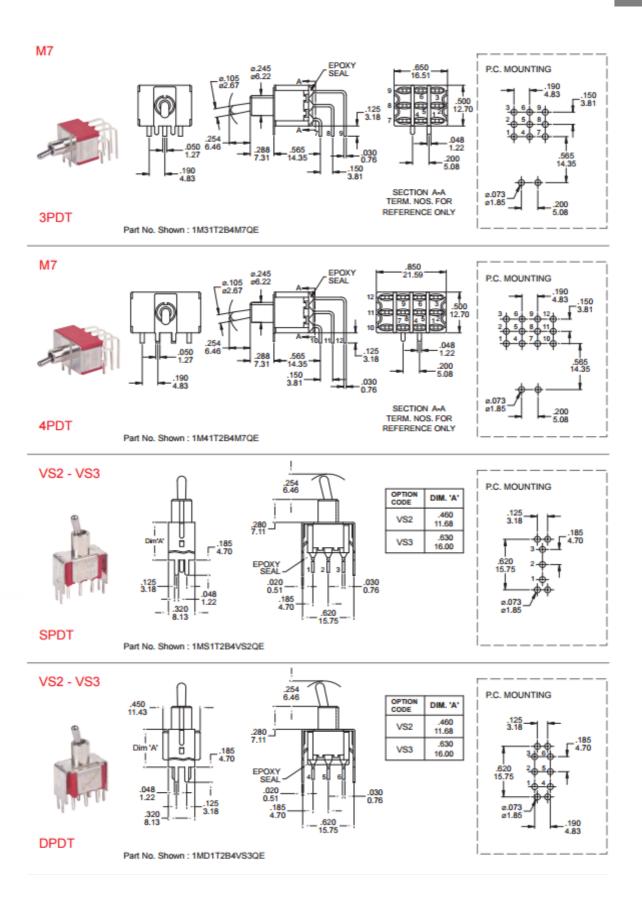
VS5 VERTICAL BRACKET P.C. MOUNT

OPTION	DIM. 'A'
M5-1	.736 (18.70)
M5-2	.953 (24.20)
M5-3	.415 (10.55)
M5-4	1.062 (26.97)



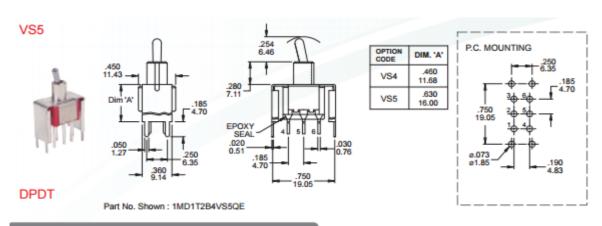






RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



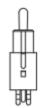


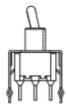
#### SNAP-IN TERMINATION OPTIONS





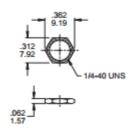
#### V2N





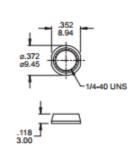
#### HARDWARE

#### 1/4 NUTS HDW2

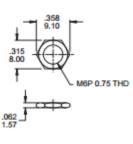


Supplied standard with B1, B3, B5, B6 and B9 options

#### DRESS NUT HDW3

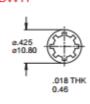


#### METRIC NUT HDW6



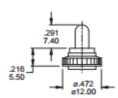
Supplied standard with B8 metric bushing

### LOCK WASHER



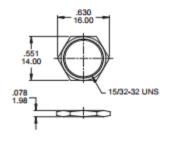
Supplied standard with B1 / B3 bushing

# OPTIONAL RUBBER HOOD SEALING



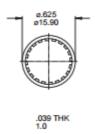
K1=Metric E1=Inch (Std.) for actuator T1, T2 and B1, B3, B5, B6 Bushing only

#### 15/32 NUTS HDW4



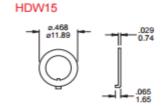
Supplied standard with B13 bushing

#### LOCK WASHER HDW12



Supplied standard with B13 bushing

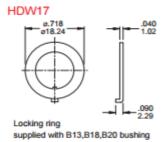




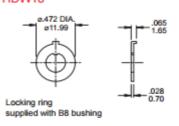
Locking ring supplied standard

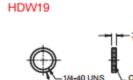
# ## desired for a second second

Locking ring supplied with B5 bushing



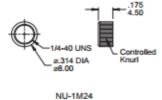






e.314 DIA 'e8.00 NU-1M18





#### **OPTIONAL TOGGLE CAP**

#### CP-T1XX



Use with T1

~	_	_	_	
CA		оп		-

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

#### **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 - Allips (VA) max. @ 20V max. (AC of 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)