



Datasheet

SPDT Toggle Switch On-Off-On, 5A, Panel Mount

RS Stock number 734-7123



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 | | TION | CONNECTED TERMINALS / SCHEMATIC | | | | |
|--------------|-----------------|--------------|-------|---------------------------------|-------|----------------------------|-------------------|---------------------------|
| NO. POLES | MODEL | MODEL NO. | POS.1 | POS.2 | POS.3 | POS.1 | POS.2 | POS.3 |
| | NO. | | 1 | | 4 | <u>l</u> | 4 | 4 |
| SP | Q1111 | 1MS1 | ON | NONE | ON | | N/A | |
| | Q1112 | 1MS2 | ON | NONE | MOM | 2-3 | IVA | 2-1 |
| | Q1113 | 1MS3 | ON | OFF | ON | | | |
| | Q1114 | 1MS4 | MOM | 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 | IVA | 2-1,5-4 |
| | Q1123 | 1MD3 | ON | OFF | ON | | | |
| | Q1124 | 1MD4 | MOM | OFF | MOM | 1+ 2 (COMM) 5+ 6 | OPEN | 1 × 3 4 × 6 |
| | Q1125 | 1MD5 | ON | OFF | MOM | | | |
| | Q1126 | 1MD6 | ON | ON | ON | | | |
| A | Q1127 | 1MD7 | MOM | ON | MOM | 2-3,5-6 | 2-3,5-4 | 2-1,5-4 |
| A | Q1128 | 1MD8 | ON | ON | MOM | | | |
| 3P | Q1131 | 1M31 | ON | NONE | ON | | N/A | |
| | Q1132 | 1M32 | ON | NONE | MOM | 2-3,5-6,8-9 | IVA | 2-1,5-4,8-7 |
| | Q1133 | 1M33 | ON | OFF | ON | | | |
| | Q1134 | 1M34 | MOM | OFF | MOM | 1+ 2 3 4+ 6 7+ 9 | OPEN | 1 +3 4 +6 7 +9 |
| | 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 | N/A | 2-1,5-4,8-7,11-10 |
| | Q1143 | 1M43 | ON | OFF | ON | 14 73 4 7 SCOOMS 87 117 12 | | 1 2 5000MM) by 11y 12 |
| | Q1144 | 1M44 | MOM | OFF | MOM | 1+ 12 4+ 14 7+ 18 10+ 12 | OPEN | 14 +2 44 +0 74 +2 104 +12 |
| | Q1145 | 1M45 | ON | OFF | MOM | | | |
| | Q1146 | 1M46 | ON | ON | ON | | | |
| A | Q1147 | 1M47 | MOM | 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 |
| A | Q1148 | 1M48 | ON | ON | MOM | | | |

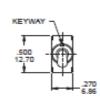


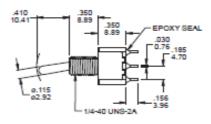


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POLE OPTIONS





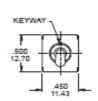


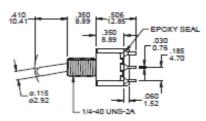


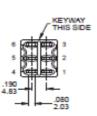
SPDT

Part No. Shown: 1MS1T1B1M1QE





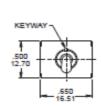


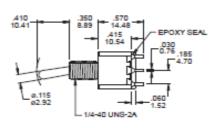


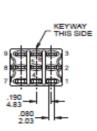
DPDT

Part No. Shown: 1MD1T1B1M1QE





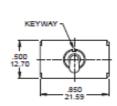


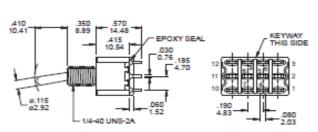


3PDT

Part No. Shown: 1M31T1B1M1QE





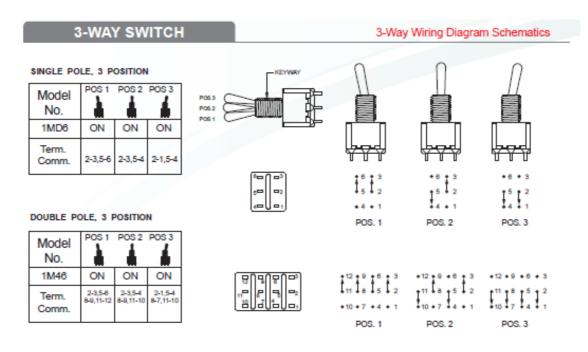


4PDT

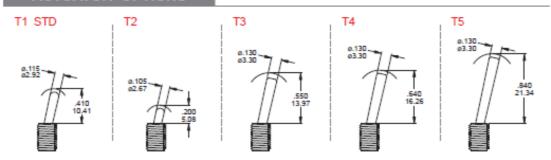
Part No. Shown: 1M41T1B1M1QE



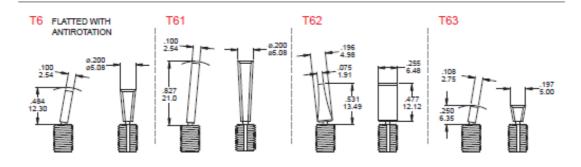




ACTUATOR OPTIONS

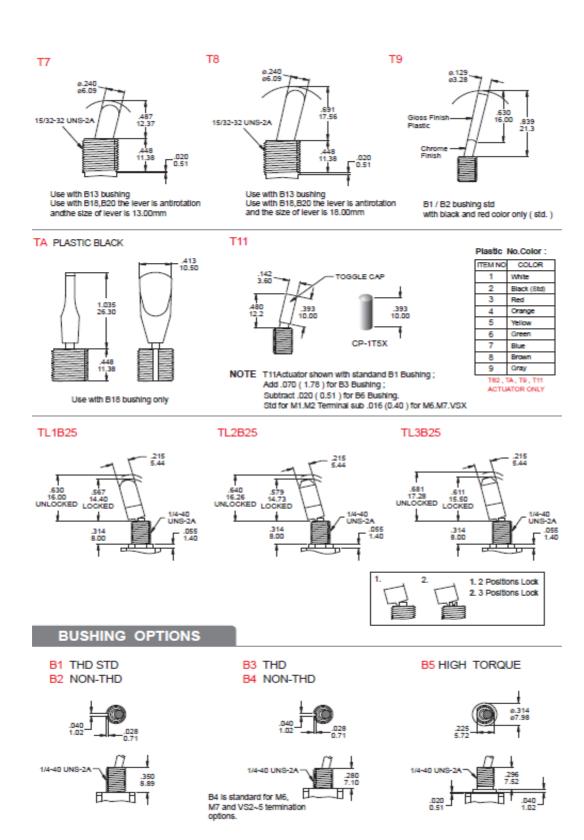


NOTE T1 ~ T5 Actuator shown with standard B1 Bushing :
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing ;
Std for M1 , M2 Terminal sub .016 (0.40) for M6 , M7 , VSX

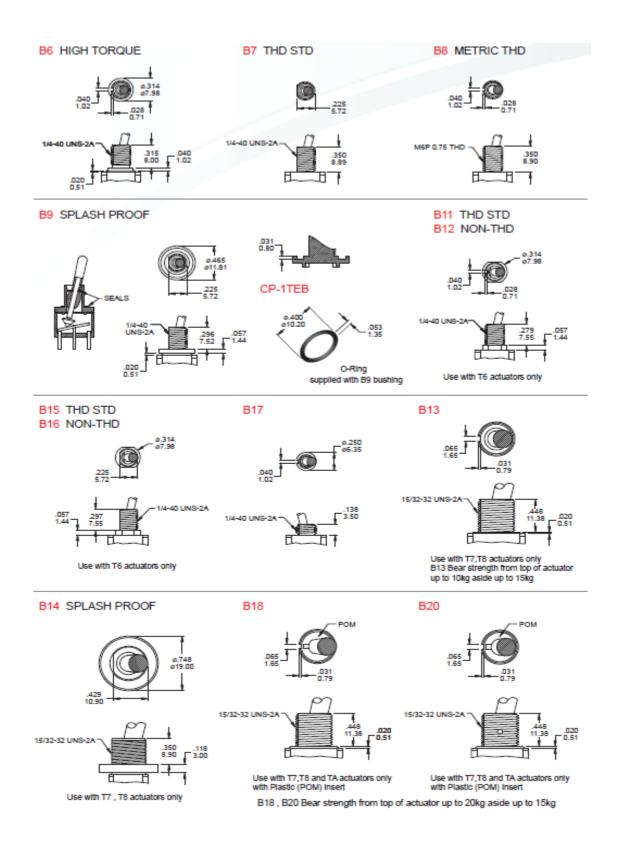


NOTE T6,T6-1,T6-2,T63 use with B11, B12, B15, B16 bushing only.



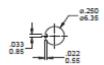






PANEL MOUNTING

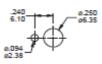
1/4 IN BUSHING



Without locking ring (Keyway)

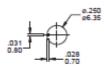


Without locking ring (Flat)

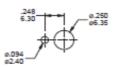


With standard locking ring.

METRIC BUSHING

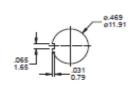


Without locking ring (Keyway)

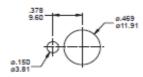


With standard locking ring.

15/32 IN BUSHING



Without locking ring (Keyway)



With standard locking ring.

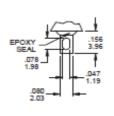
SPLASH PROOF BUSHING



Without locking ring (Flat)

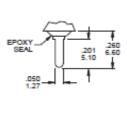
TERMINATION OPTIONS





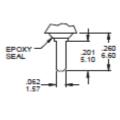
.030(0.76) THK.

M2 PC Thru-hole



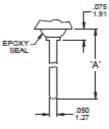
.030(0.76) THK.

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

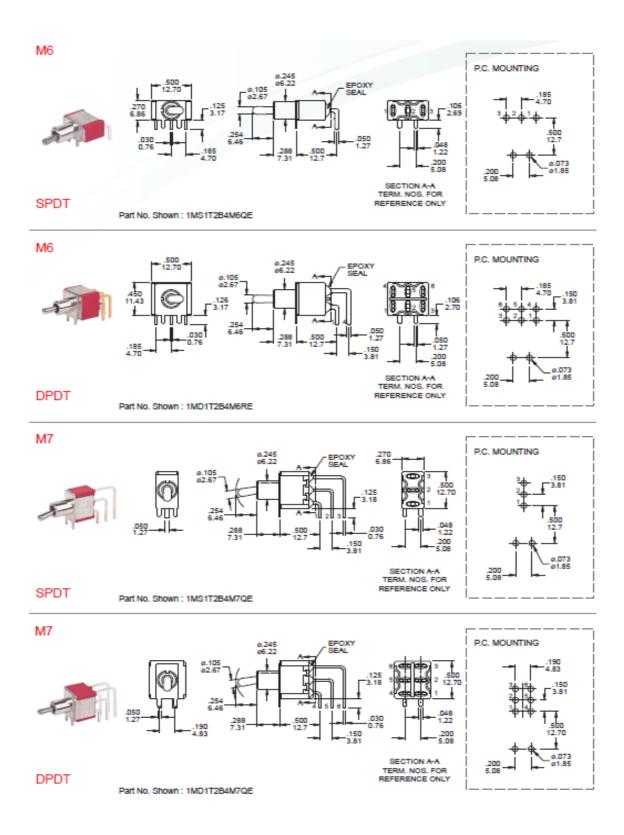
VS2 VERTICAL BRACKET P.C. MOUNT VS3 VERTICAL BRACKET P.C. MOUNT

V\$5 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) |

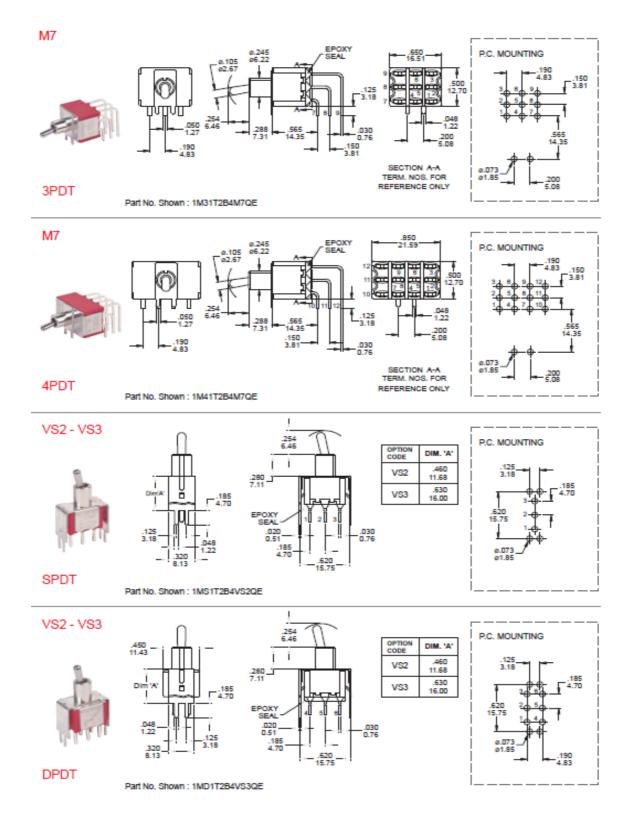




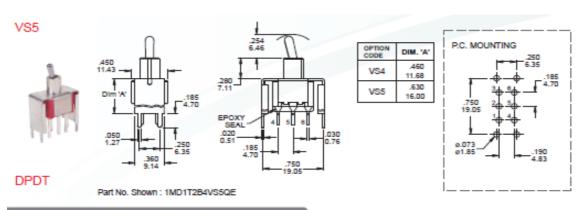












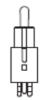
TERMINATION OPTIONS







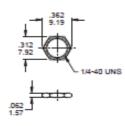
V2N





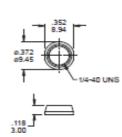
HARDWARE

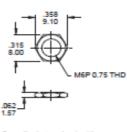
1/4 NUTS HDW2



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

DRESS NUT HDW3





METRIC NUT HDW6

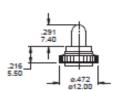
Supplied standard with B8 metric bushing

LOCK WASHER HDW11



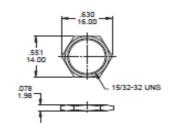
Supplied standard with B1 / B3 bushing

OPTIONAL RUBBER HOOD SEALING



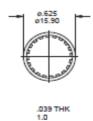
K1=Metric E1=Inch (Std.) for actuator T1, T2 and B1, B3, B5, B6 Bushing only

15/32 NUTS HDW4



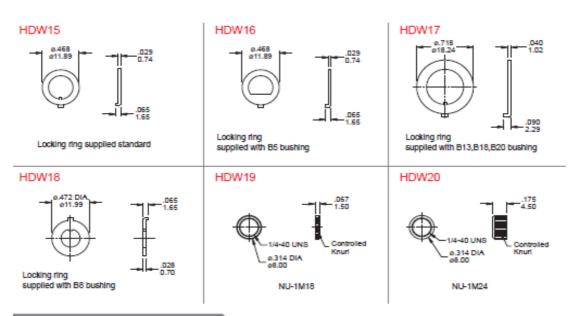
Supplied standard with B13 bushing

LOCK WASHER HDW12



Supplied standard with B13 bushing





OPTIONAL TOGGLE CAP

CP-T1XX



CAP Color:

| 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 | 35/4 | G = Gold,pure - tin | 0.4 Volt - Alips (VA / Hax. (@ 20 V Hax. (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)