

# Miniature Toggle Switch



**RoHS  
Compliant**



## Specifications

Contact Rating : Silver  
 Mechanical Life : 40,000 Make-and-Break Cycles  
 Contact Resistance : 10mΩ Max. Initial @ 2-4V DC 100mA for both Silver contacts  
 Insulation Resistance : 1,000MΩ Min.  
 Dielectric Strength : 1,000Vrms Min. @Sea Level  
 Operating Temperature : -30°C to +85°C

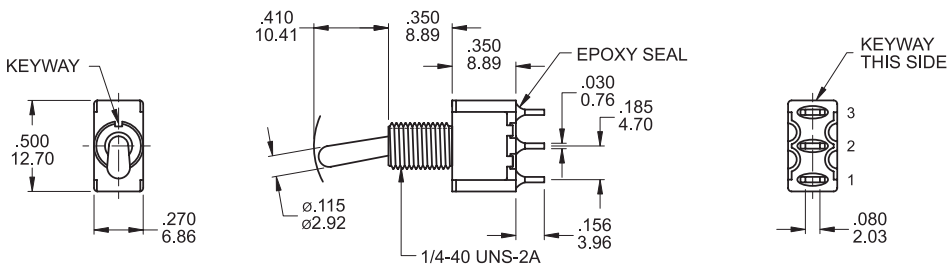
## Materials

Case : Diallyl phthalate (DAP)  
 Actuator : Brass  
 Bushing : Brass, Nickel plated  
 Housing : Stainless Steel  
 Switch Support : Brass, Tin Plated  
 Contact / Terminals : Silver

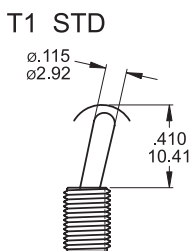
## Switch Function

Part Number	Switch Function			Connected Terminals / Schematic		
	POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3
1MS1T1B1M1QE	ON	NONE	ON	2-3 	N/A	2-1 

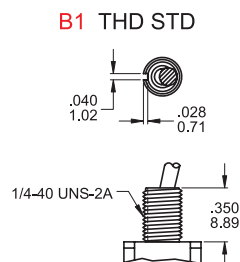
## Pole Option



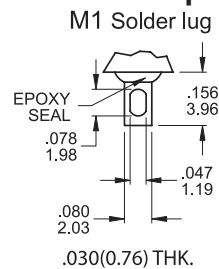
## Actuator Option



## Bushing Option



## Termination Option



Dimensions : Inches (Millimetres)

www.element14.com  
 www.farnell.com  
 www.newark.com

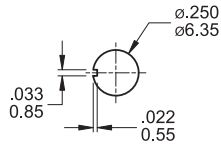


# Miniature Toggle Switch



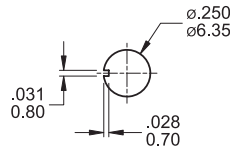
## Panel Mounting

### 1/4 IN BUSHING



Without locking ring (Keyway)

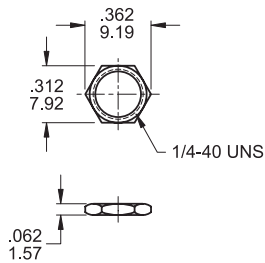
### METRIC BUSHING



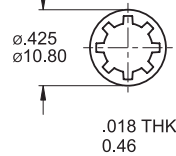
Without locking ring (Keyway)

## Hardware

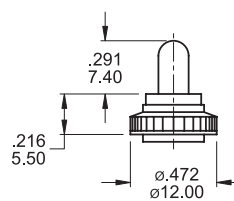
### 1/4 NUTS HDW2



### LOCK WASHER HDW11



### OPTIONAL RUBBER HOOD SEALING



Dimensions : Inches (Millimetres)

## 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)

## Part Number Explanation:

<u>Model No.</u>	<u>Actuator</u>	<u>Bushing</u>	<u>Terminations</u>	<u>Contact Material</u>	<u>Seal</u>
1MS1	T1	B1	M1	Q	E
SP On-None-On	10.41mm high	8.89 high, keyway (thd std)	Solder lug	Silver	EPOXY (std)

## Part Number Table

Description	Part Number
Miniature Toggle Switch	1MS1T1B1M1QE

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

