

## Series 11

### MINIATURE 10 AMP DOUBLE-BREAK SNAP ACTION SWITCHES

This rugged miniature switch features the Butterfly® double-break snap action switch mechanism. It is ideal for tough applications where high current capability and Butterfly® reliability are needed.



#### APPLICATIONS

- Welding guns
- Pipeline valve actuator
- Discrete length tape dispenser machines
- Lift trucks
- Electrical contractors

#### KEY FEATURES:

- Gold or silver contacts
- Variety of terminals configurations and styles available
- UL recognized and CSA certified
- Reset style switch available
- Roller lever and overtravel plunger actuator are available

ACTUAL SIZE

#### ORDERING INFORMATION:

##### Switches

Part Number	Terminals
<b>11-104</b>	End Solder
<b>11-204</b>	#4 Screw
<b>11-304</b>	Side Solder
<b>11-314 Reset</b>	Side Solder
<b>11-504</b>	Quick Disconnect .250

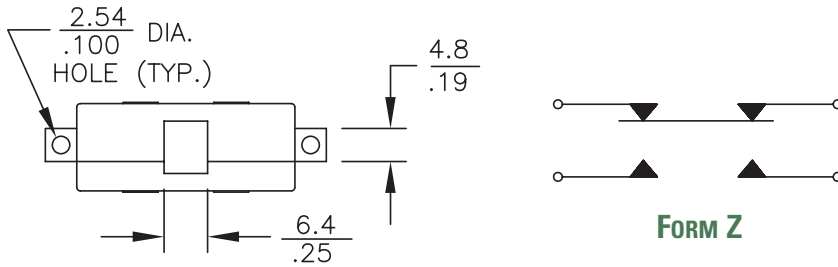
##### Actuators (see page 68 for additional specifications)

Part Number	Oper. Force	Release Force	Pretravel	Overtravel	Movement Diff.	Operating Point
<b>71-1040</b> Roller Lever	3.5 oz max	2 oz min	.093 max	.062 min	.030 ± .015	.671 ± .031
<b>71-2010</b> Over Travel	8 ± 3 oz	4 oz min	.050 max	.215 min	.020 ± .005	.828 ± .015

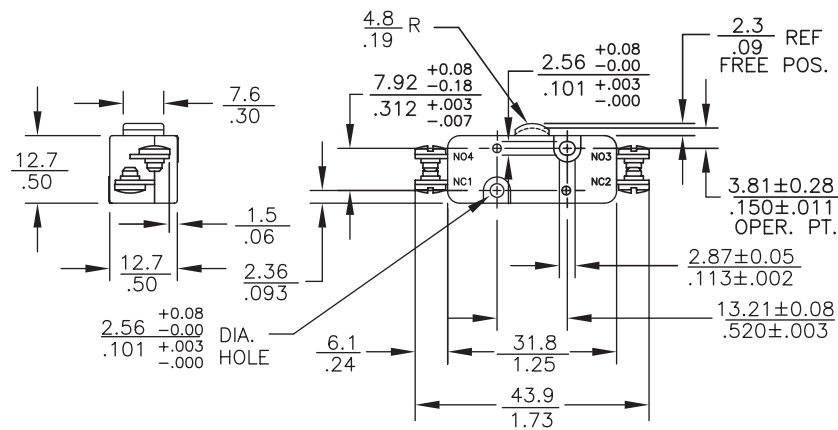
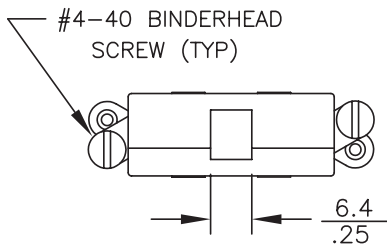
#### STANDARDS / AGENCY / RATINGS:



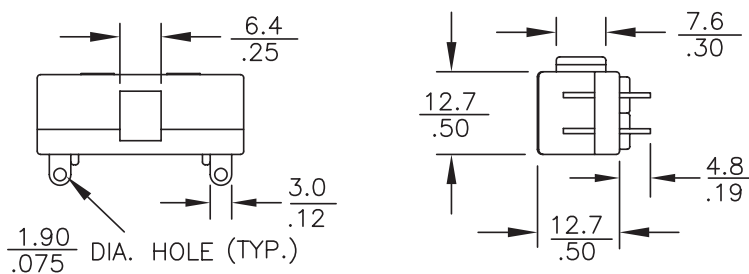
**END SOLDER**



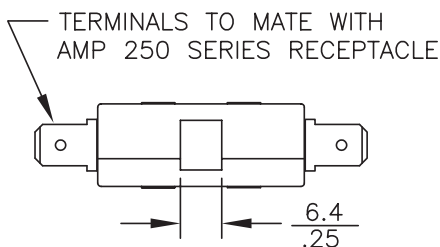
**# 4 SCREW**



**SIDE SOLDER**



**QUICK DISCONNECT**



**MECHANICAL / ELECTRICAL CHARACTERISTICS:**

- Pretravel:**  
0.050 inches max
- Overtravel:**  
0.015 inches min
- Operating Force:**  
8 oz + 3 oz
- Release Force:**  
4 oz min
- Movement Differential:**  
0.020 ± 0.007 inches
- Operating Point:**  
0.150 ± 0.011 inches  
(from mounting hold centers)
- Circuit:**  
SPDT-DB (Form Z)

**Electrical Ratings (Typical):**

Circuitry	125/250 VAC	28 VDC
SPST-DB NC (Form Y) or NO (Form X)	10 amp (75-80% PF) 1/2 HP 125 VAC	10 amp Ind 15 amp Res
SPDT-DB (Form Z)	3/4 HP 250 VAC	7 amp Ind 10 amp Res
SPDT-SB (Form C)		4 amp Ind 6 amp Res

# Mouser Electronics

Authorized Distributor

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[ITW Switches:](#)

[11-104](#) [11-304](#) [11-504](#)