

## Series 16

### SUB-MINIATURE 10.1 AMP DOUBLE-BREAK SNAP ACTION SWITCHES

Series 16 switches feature the Butterfly® double-break momentary switch mechanism. This offers the capability of handling high (or low) current loads in a small switch and gives the options of controlling two circuits with the Form Z switch circuitry.

#### APPLICATIONS

- Lift truck seat switch
- Aircraft contactor or actuator
- Sump pump float switch
- Valve actuator
- Industrial equipment and machinery
- Office equipment

#### KEY FEATURES:

- Gold or silver contacts
- Meets MIL-PRF-8805/7
- UL recognized and CSA certified: 10.1 amps @ 125/250 VAC
- Variety of terminal configurations and styles
- Roller lever, lever, short roller lever and bushing mount actuator are available



ACTUAL SIZE

#### ORDERING INFORMATION:

Part Number	Circuit	Temperature Index	Contacts	Terminals	RoHS Compliant
16-104	SPDT (Form Z)	To 275°F Ambient	Silver **	End Solder	✓
16-188051	SPDT (Form Z)	To 275°F Ambient	Gold Plated	End Solder	✓
16-204	SPDT (Form Z)	To 275°F Ambient	Silver **	End Screw	—
16-304	SPDT (Form Z)	To 275°F Ambient	Silver **	Side Solder	✓
16-404	SPDT (Form Z)	To 275°F Ambient	Silver **	Bottom Solder	✓
16-40401	SPDT (Form Z)	To 275°F Ambient	Gold Plated	Bottom Solder	✓
16-4044*	SPDT (Form Z)	To 275°F Ambient	Silver **	Bottom Solder	✓
16-40441*	SPDT (Form Z)	To 275°F Ambient	Gold Plated	Bottom Solder	✓
16-488051	SPDT (Form Z)	To 275°F Ambient	Gold Plated	Bottom Solder	—
16-530004***	SPDT (Form Z)	To 275°F Ambient	Silver **	Bottom QC .110	✓

\* Thermoplastic case and cover.

\*\* For electrical loads under 250mA, consult factory.

\*\*\* Mounts easily to Series 76-95 Switches.

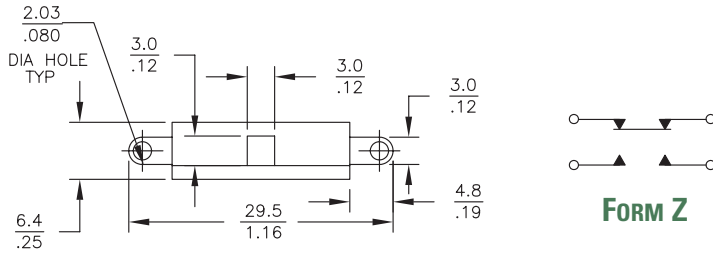
#### Actuators (see page 69 for additional specifications)

Part Number	Switch Series	Oper. Force	Release Force	Pretravel	Overtravel	Movement Diff.
76-1200 Roller Lever	16	4 oz max	1 oz min	.125 max	.025 min	.045 ± .011
76-1210 Lever	16	2.5 oz max	1 oz min	.125 max	.025 min	.047 ± .013
76-1220 Short Roller Lever	16	5 + 3 oz - 2 oz min	2 oz min	.050 max	.023 min	.020 ± .005
76-22604 Bushing Mount	16	5 oz	—	.050 max	.156 MIN	—

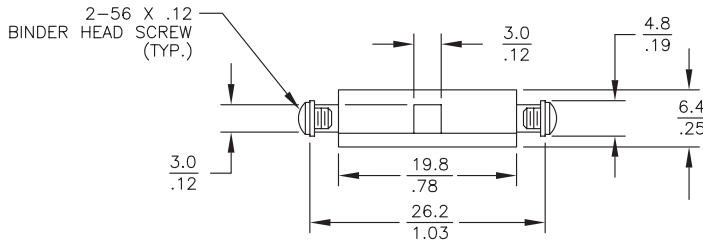
#### STANDARDS / AGENCY / RATINGS:



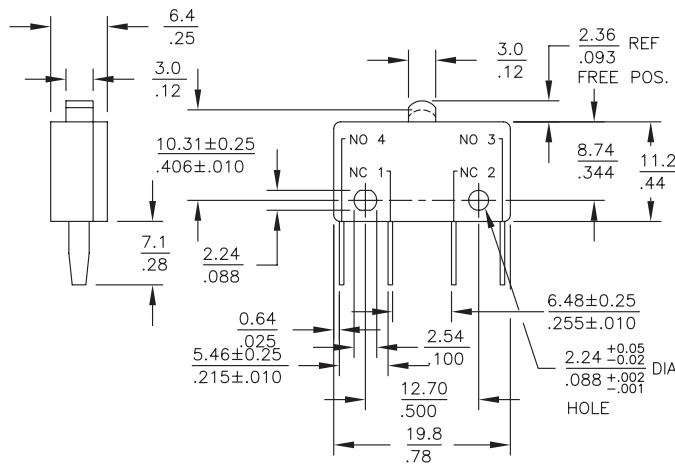
**END SOLDER**



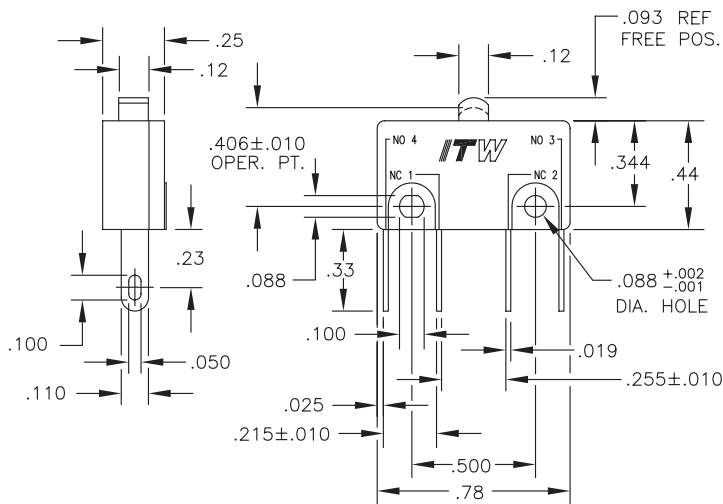
**END SCREW**



**QC TAPER TAB**



**BOTTOM QC .110**



**MECHANICAL / ELECTRICAL CHARACTERISTICS:**

**Pretravel:**  
0.050 inches max

**Overtravel:**  
0.012 inches min

**Operating Force:**  
5 oz + 3 oz - 2 oz

**Release Force:**  
2 oz min

**Movement Differential:**  
0.020 inches ± 0.005

**Operating Point:**  
0.406 inches ± 0.010  
(from mounting hold centers)

**Circuit:**  
SPDT-DB (Form Z)

**Temperature Index:**  
-54°C to +135°C  
(-65°F to +275°F)

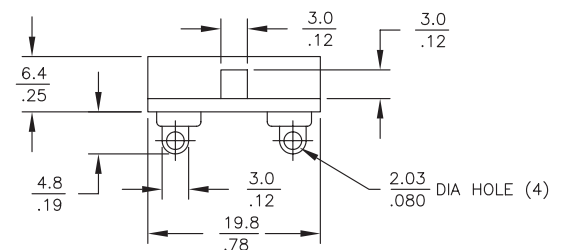
**MIL-PRF-8805/7 QPL listed:**  
16-188051 MS25476-1  
16-488051 MS27217-1

**Electrical Rating @ 28VDC:**

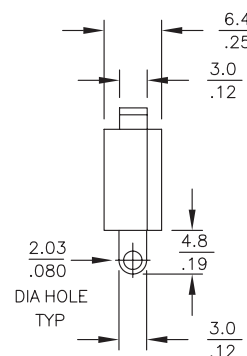
		Sea Level	70,000 Feet
Form Z 2 Circuit	Res	10A	10A
	Ind*	5A	2A
	Lamp	3A	—

\*L/R = .026

**SIDE SOLDER**



**BOTTOM SOLDER**



# Series 16 Actuators

SEE PAGES 50 & 52  
FOR SWITCHES



**KEY FEATURES:**

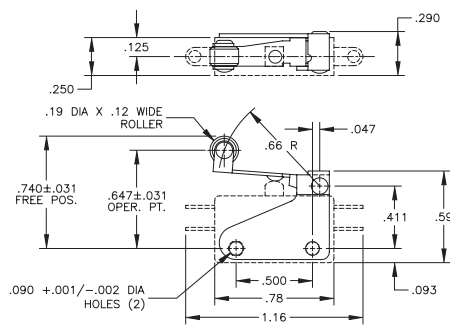
- Roller Lever
- Short Roller Lever
- Lever
- Bushing Mount

**MECHANICAL CHARACTERISTICS:**

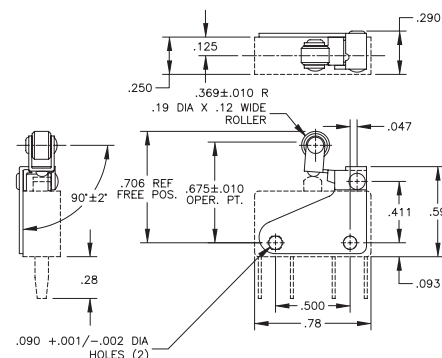
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<b>76-22604</b> Bushing Mount	16	5 oz	—	.050 max	.156 min	—

Notes: (1) Characteristics may vary depending on type of basic switch used in assembly. (2) All actuators supplied with mounting hardware.

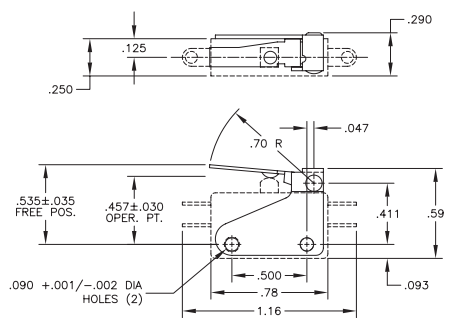
**76-1200**



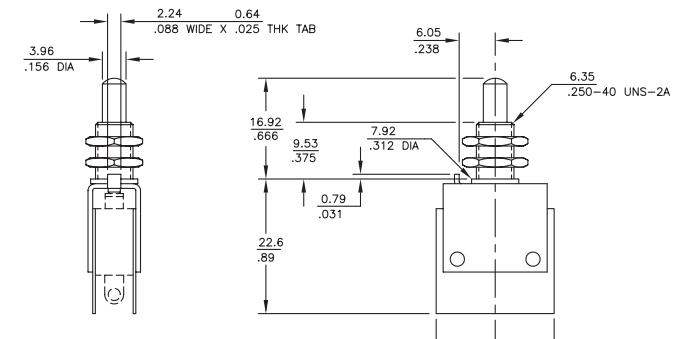
**76-1220**



**76-1210**



**76-22604**



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