

# 8700 Series

## Overtravel Pushbutton Switches



### Description

Designers in the medical test equipment and telecommunications industries turn to the 8700 series of overtravel pushbutton switches when engineering their latest product applications. With a long electrical lifecycle of 100k cycles, a heavy-duty brass plunger and extended pre-travel or overtravel options, the 8700 series give designers the highly-responsive, long-lasting switches they need to succeed.

### Features & Benefits

- Extended pre-travel or over-travel
- Heavy-duty brass plunger
- Long electrical life — 100K cycles
- RoHS compliant

### Applications

- Telecommunications
- High end Instrumentation
- Medical & test equipment
- Detection

### Specifications

<b>Contact Rating</b>	Q contact material: 1 amp @ 120 V AC or 28 V DC.
<b>Electrical Life</b>	100,000 actuations at full load.
<b>Contact Resistance</b>	Below 30 mΩ typ. Initial @ 2-4 V DC, 100 mA.
<b>Insulation Resistance</b>	10 <sup>3</sup> Ω min.
<b>Dielectric Strength</b>	1,000 Vrms min. @ sea level.
<b>Operating Temperature</b>	-30°C to 65°C

**Notes:**

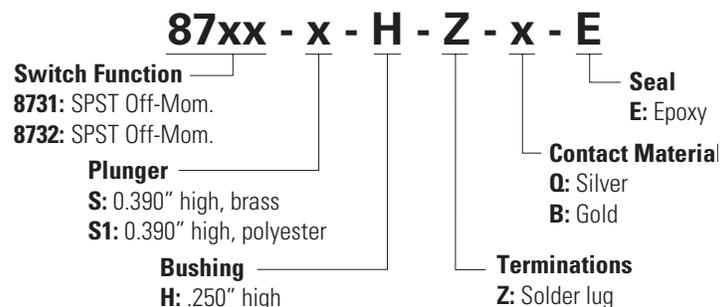
Any models supplied with Q, or B contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Materials

<b>Case</b>	Diallyl phthalate (DAP) (UL 94V-0).
<b>Plunger</b>	8731 – .3901" brass, nickel plated. 8732 – .390"1 PBT polyester, black.
<b>Bushing</b>	Brass, nickel plated.
<b>Contacts</b>	Q contact material: Coin silver, silver plated.
<b>Terminals</b>	Q contact material: Copper alloy, silver plated.
<b>Terminal Seal</b>	Epoxy
<b>Hardware</b>	Nut: Brass, nickel plated; lockwasher: Steel, bright nickel plate. One mounting nut & lockwasher supplied with all switches.

### Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



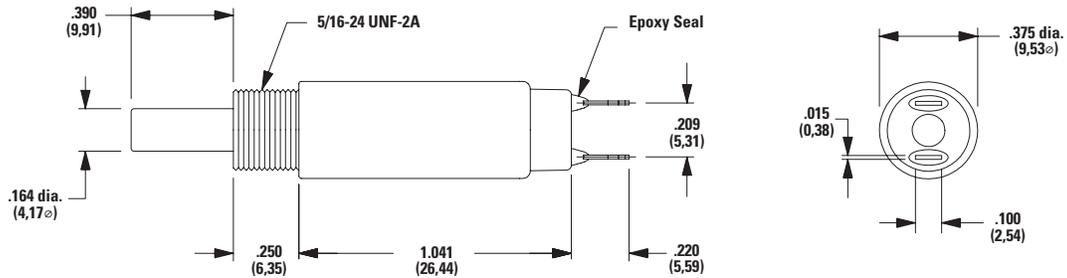
# 8700 Series

## Overtravel Pushbutton Switches



### Switch Function SPST

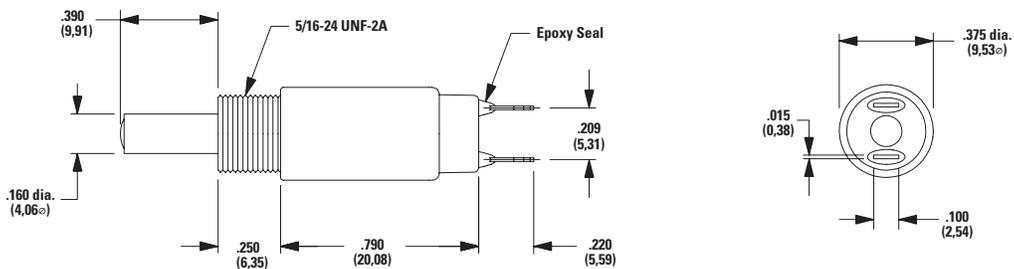
No. Poles	Model No.	Switch Function		Total Travel	Actuation Force	Schematic
		POS. 1	POS. 2			
SP	8731	OFF	MOM.	0.390 (9.91) TYP. With overtravel 0.311 TYP.	4.7 oz TYP.	N.O. with overtravel SPST 



Part Number Shown: 8731SHZQE

### SPST

No. Poles	Model No.	Switch Function		Total Travel	Actuation Force	Schematic
		POS. 1	POS. 2			
SP	8732	OFF	MOM.	0.390 (9.91) TYP. With overtravel 0.350 TYP.	2.2 oz TYP.	N.O. with overtravel SPST 

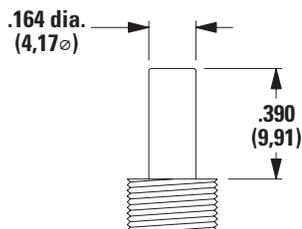


Part Number Shown: 8732SHZQE

Notes:  
MOM. = Momentary

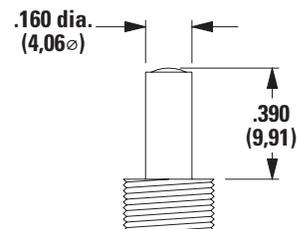
### Plunger

#### S 0.390" High, Brass



Available with 8731 model only.

#### S1 0.390" High, PBT Polyester



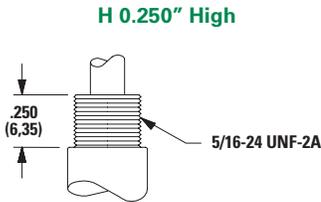
Available with 8732 model only.

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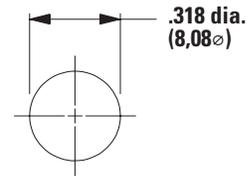
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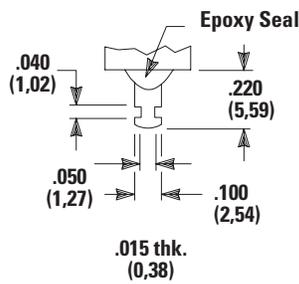
### Bushing



### Panel Mounting



### Terminations Z Solder Lug



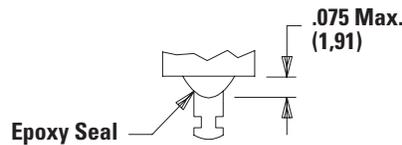
### Contact Material

Option Code	RoHS Compliant <sup>1</sup>	RoHS Compatible <sup>1</sup>	Contact Material	Terminal Plating	Ratings
Q	Yes	Yes	Silver		Power 1 amp @ 125 V AC or 28 V DC.
B	Yes	Yes	Gold		Low Level/Dry Circuit 0.4 VA max. @ 20 V AC or DC max.

**Notes:**

See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications. Any models supplied with Q, or B contact material are RoHS compliant.

### Seal E Epoxy Seal



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