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

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

Case	Diallyl phthalate (DAP) (UL 94V-0).
Plunger	8731 – .3901" brass, nickel plated. 8732 – .390"1 PBT polyester, black.
Bushing	Brass, nickel plated.
Contacts	Q contact material: Coin silver, silver plated.
Terminals	Q contact material: Copper alloy, silver plated.
Terminal Seal	Epoxy
Hardware	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.

87xx - x - H - Z - x - E

Switch Function
8731: SPST Off-Mom.
8732: SPST Off-Mom.

Plunger
S: 0.390" high, brass
S1: 0.390" high, polyester

Bushing
H: .250" high

Terminations
Z: Solder lug

Contact Material
Q: Silver
B: Gold

Seal
E: Epoxy

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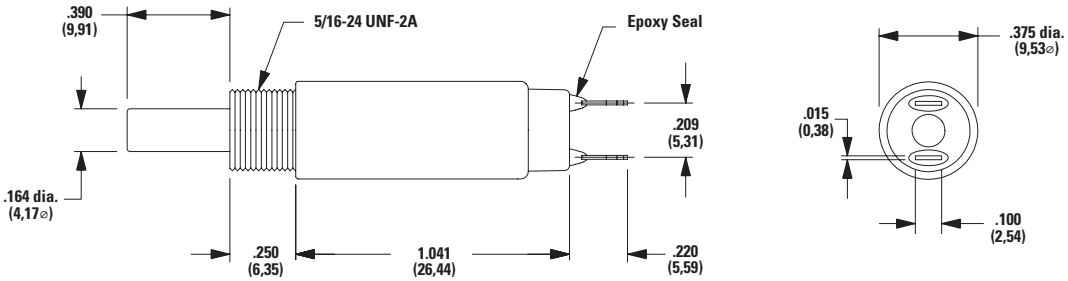
Switch Function
SPST

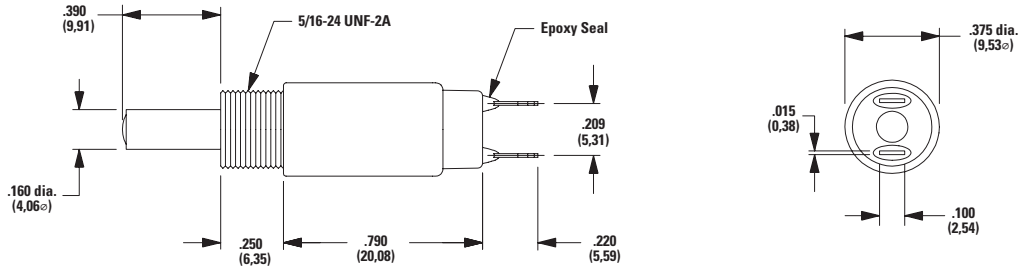
No. Poles	Model No.	Switch Function POS. 1	Switch Function POS. 2	Total Travel	Actuation Force	Schematic
SP	8731	OFF	MOM.	0.390 (9.91) TYP. With overtravel 0.311 TYP.	4.7 oz TYP.	N.O. with overtravel SPST



Part Number Shown: 8731SHZQE

SPST

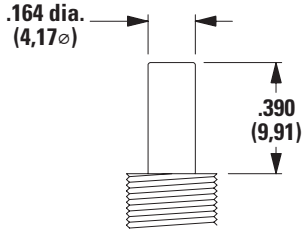
No. Poles	Model No.	Switch Function POS. 1	Switch Function POS. 2	Total Travel	Actuation Force	Schematic
SP	8732	OFF	MOM.	0.390 (9.91) TYP. With overtravel 0.350 TYP.	2.2 oz TYP.	N.O. with overtravel SPST



Part Number Shown: 8732SHZQE
Notes:
MOM. = Momentary

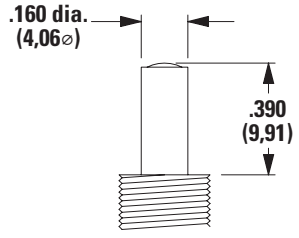
Plunger

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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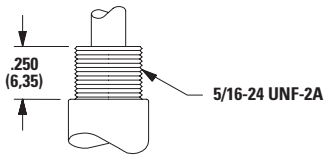
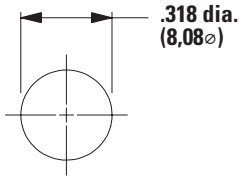
Bushing

H 0.250" High

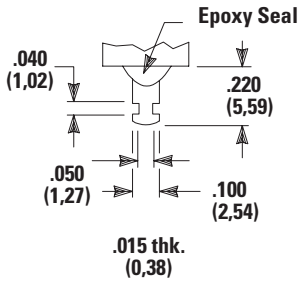


Panel Mounting



Terminations

Z Solder Lug



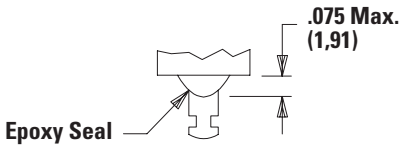
Contact Material

Option Code	RoHS Compliant[1]	RoHS Compatible[1]	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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