



**THE DATASHEET OF**  
**8632CQD2**



# 8600 Series

## Microminiature Pushbutton Switches



### Description

The 8600 series microminiature pushbutton switches are the perfect size for applications where space is limited. Commonly used in the networking, detection and telecommunications industry, the 8600 switches are available in closed models with optional overtravel.

### Features & Benefits

- Available with overtravel
- Microminiature size ideal for applications where space is limited
- RoHS compliant
- Normally closed models available

### Applications

- Telecommunications and networking equipment
- Computers and peripherals
- Detection

### Agency Approvals

Agency	Agency File Number
	E42363

Note: UL Recogniton for 8631 and 8632 only

### Specifications

<b>Contact Rating</b>	Q contact material (8631, 8632 models): 500 mA @ 120 V AC or 28 V DC; 250 mA @ 250 V AC; (8633 model): 250 mA @ 120 V AC or 28 V DC; 125 mA @ 250 V AC. See page 4 for additional ratings.
<b>Electrical Life</b>	8631 and 8633 models: 250,000 actuations at full load. 8632 model: 100,000 actuations at full load.
<b>Contact Resistance</b>	Below 30 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts
<b>Insulation Resistance</b>	10 <sup>9</sup> Ω min.
<b>Dielectric Strength</b>	500 Vrms min. @ sea level.
<b>Operating Temperature</b>	-30°C to 65°C
<b>Solderability</b>	Per MIL-STD-202F method 208D, or EIA RS-186E method 9.

**Notes:**

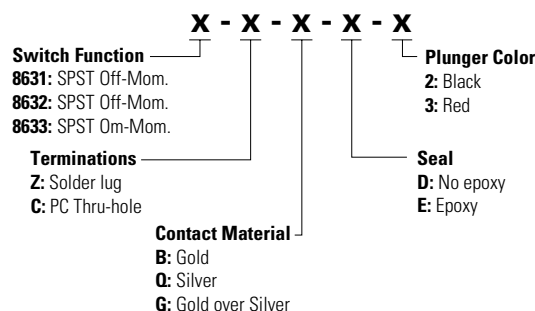
Any models supplied with Q, B or G contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Materials

<b>Case</b>	Glass filled phenolic or diallyl phthalate (DAP), (UL 94V-0).
<b>Plunger</b>	Glass filled nylon (UL 94V-0), black standard.
<b>Bushing</b>	Brass, nickel plated.
<b>Contacts</b>	Q contact material: Coin silver, silver plated. See page 4 for additional contact materials.
<b>Terminals</b>	8631, 8632 models: Copper alloy, silver plated. 8633 model: Q contact material: Coin silver. See page 4 for additional contact materials.
<b>Terminal Seal</b>	8633 model: Epoxy. 8631, 8632 models: Terminals insert molded.
<b>Hardware</b>	Nut: Brass, nickel plated.

### Ordering Number

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described below. For additional options not shown in catalog, consult Customer Service Center.



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## Microminiature Pushbutton Switches

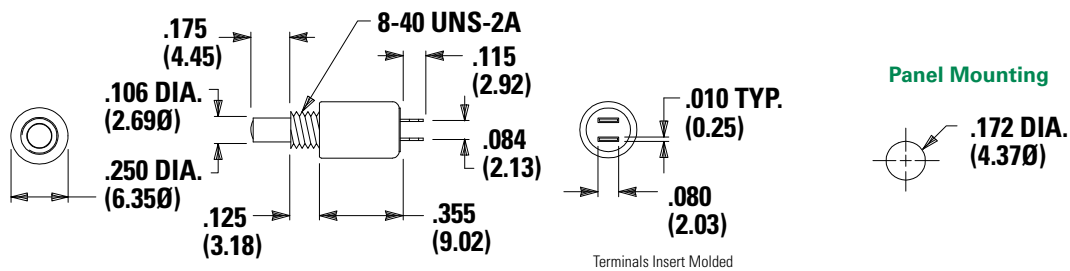


### Switch Function

#### SPST



No. Poles	Model NO.	Switch Function		Total Travel	Actuation Force	Schematic
		POS. 1 	POS. 2 			
SP	8631	OFF	MOM.	0.040 (1.02) TYP.	5 oz (140g) TYP.	

#### Dimensions: inches(mm)

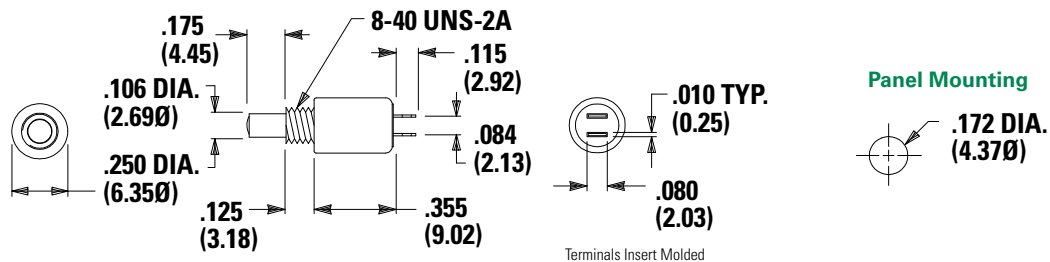


Part Number Shown: 8631ZQD2

### SPST

No. Poles	Model NO.	Switch Function		Total Travel	Actuation Force	Schematic
		POS. 1 	POS. 2 			
SP	8632	OFF	MOM.	0.106 (2.69) TYP. With overtravel 0.024 (0.61) TYP.	6.25 oz (177g) TYP.	

#### Dimensions: inches(mm)



Part Number Shown: 8632ZQD2

# 8600 Series

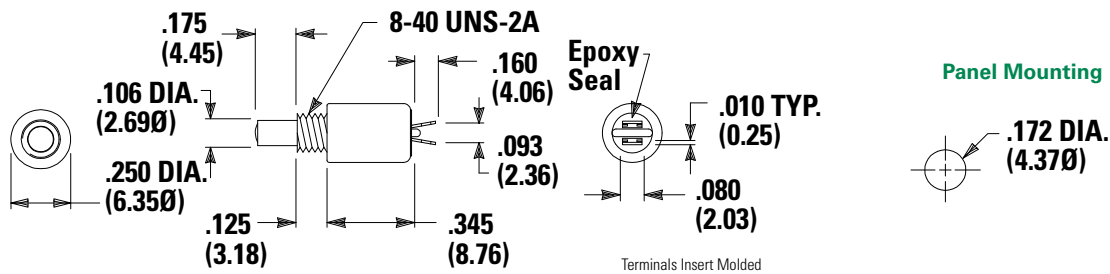
## Microminiature Pushbutton Switches



### SPST

No. Poles	Model NO.	Switch Function		Total Travel	Actuation Force	Schematic
		POS. 1 	POS. 2 			
SP	8633	ON	MOM.	0.048 (1.22) TYP.	5 oz (140g) TYP.	N.C. 

### Dimensions: inches(mm)

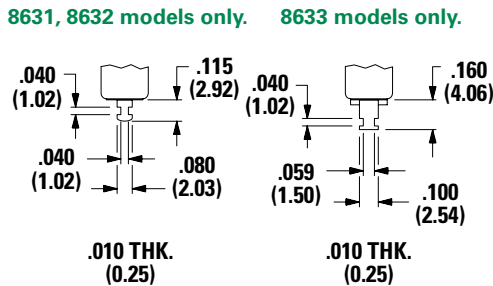


Part Number Shown: 8633ZQE2

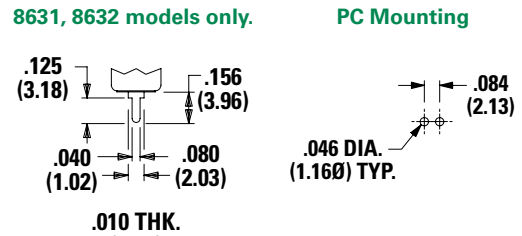
**Notes:**  
MOM. = Momentary  
Caps available for plunger options, see page 4.

### Terminations

#### Z Solder Lug



#### C PCThu-hole



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## Microminiature Pushbutton Switches



### Contact Material

Option Code	RoHS Compliant*	RoHS Compatible*	Contact Material	Terminal Plating		Ratings
B	Yes		Gold <sup>1</sup>	Gold <sup>2</sup>	Low Level/Dry Circuit	0.4 VA max. @ 20 V AC or DC Max.
Q	Yes		Silver <sup>4</sup>	Silver <sup>5</sup>	Power	8631, 8632 models: 500 mA @ 120 V AC OR 28 V DC; 250 mA @ 250 V AC. 8633 models: 250 mA @ 120 V AC OR 28 V DC; 125 mA @ 250 V AC.
G	Yes		Gold over Silver <sup>4</sup>	Gold <sup>3</sup>	Low Level/Dry Circuit or Power	0.4 VA max. @ 20 V AC OR DC max. OR 8631, 8632 models: 500 mA @ 120 V AC OR 28 V DC; 250 mA @ 250 V AC. 8633 models: 250 mA @ 120 V AC OR 28 V DC; 125 mA @ 250 V AC.

**Notes:**


\* See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

**1 Contacts & Terminals:** Copper alloy, with gold plate over nickel plate.

**2 Contacts:** Coin silver, with gold plate over nickel plate.

**3 Terminals:** Copper alloy, with gold plate over nickel plate. 8633 model only; Coin silver, with gold plate over nickel plate.

**4 Contacts:** Coin silver, silver plated.

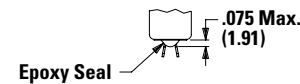
**5 Terminals:** Copper alloy, silver plated. 8633 model only; coin silver. Any models supplied with Q, B or G contact material are RoHS compliant. 8631, 8632 models  with all options when ordered with G or Q contact material. Q contact material standard with C, Z terminations.

### Seal

#### D No Epoxy Seal

Not available on 8633 model. Standard on 8631, 8632 models.

#### E Epoxy Seal



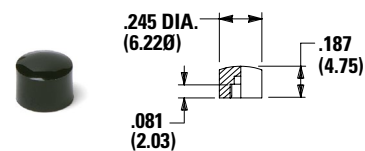
Not available on 8631, 8632 models. Standard on 8633 model only.

### Plunger Color

Option Code	Color
2	Black
3	Red

### Available Hardware

#### Cap



**PART NO.**  
 785101000 WHITE  
 785102000 BLACK  
 785103000 RED  
**Material:** Nylon  
**Finish:** Gloss

**Notes:** Other cap colors available, consult Customer Service Center.

**Disclaimer Notice** - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at <http://www.littelfuse.com/disclaimer-electronics>.

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