# 8600 Series

# Microminiature Pushbutton Switches







#### **Agency Approvals**

Agency	Agency File Number
c <b>'91</b> 2°us	E42363

Note: UL Recogniton for 8631 and 8632 only

#### **Specifications**

Contact Rating	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.
Electrical Life	8631 and 8633 models: 250,000 actuations at full load. 8632 model: 100,000 actuations at full load.
Contact Resistance	Below 30 m $\Omega$ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts
Insulation Resistance	$10^9~\Omega$ min.
Dielectric Strength	500 Vrms min. @ sea level.
Operating Temperature	−30°C to 65°C
Solderability	Per MIL-STD-202F method 208D, or EIA RS-186E method 9.

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.

### **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**

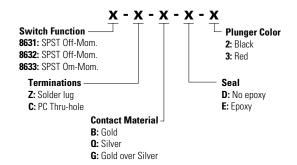
- Telecommunications and networking equipment
- Computers and peripherals
- Detection

#### **Materials**

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



# Microminiature Pushbutton Switches



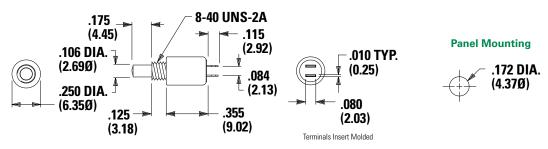


#### **Switch Function**

#### **SPST**

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

#### Dimensions: inches(mm)

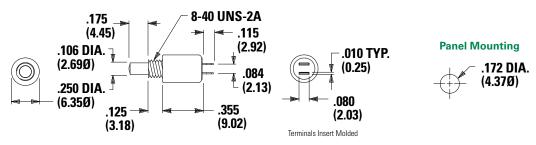


Part Number Shown: 8631ZQD2

#### **SPST**

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

### Dimensions: inches(mm)



Part Number Shown: 8632ZQD2



# 8600 Series

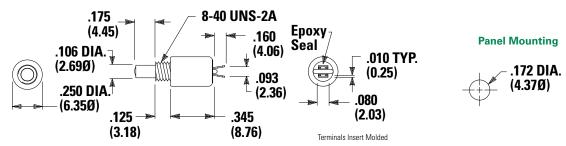
# Microminiature Pushbutton Switches



#### **SPST**

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

#### Dimensions: inches(mm)



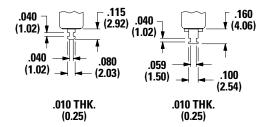
Part Number Shown: 8633ZQE2

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

#### **Terminations**

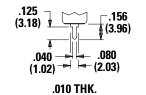
### **Z Solder Lug**

#### 8631, 8632 models only. 8633 models only.



## C PC Thru-hole

#### 8631, 8632 models only. **PC Mounting**







# 8600 Series

# Microminiature Pushbutton Switches





#### **Contact Material**

Option Code	RoHS Compliant*	RoHS Compatible*	Contact Material	Terminal Plating	Ratings	
В	Y	es	Gold <sup>1</sup>	Gold <sup>2</sup>	Low Level/Dry Circuit	0.4 VA max. @ 20 V AC or DC Max.
Q	Y	es	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	Y	es	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 Roy 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.



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

#### **Plunger Color**

Option Code	Color
2	Black
3	Red

#### **Available Hardware**

Cap .245 DIA .187 (4.75)(2.03)

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

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

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