

8600 Series  
Microminiature Pushbutton Switches



Features/Benefits

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

Typical Applications

- Detection
- Telecommunications and networking equipment
- Computers and peripherals



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 A-73 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 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 Ω 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.

Materials

CASE: Glass filled phenolic or diallyl phthalate (DAP), (UL94V-0).

PLUNGER: Glass filled nylon (UL94V-0), black standard.

BUSHING: Brass, nickel plated.

CONTACTS: Q contact material: Coin silver, silver plated.  
See page A-73 for additional contact materials.

TERMINALS:  
8631, 8632 MODELS: Copper alloy, silver plated.  
8633 MODEL: Q contact material: Coin silver.  
See page A-73 for additional contact materials.

TERMINAL SEAL:  
8633 MODEL: Epoxy.  
8631, 8632 MODELS: Terminals insert molded.

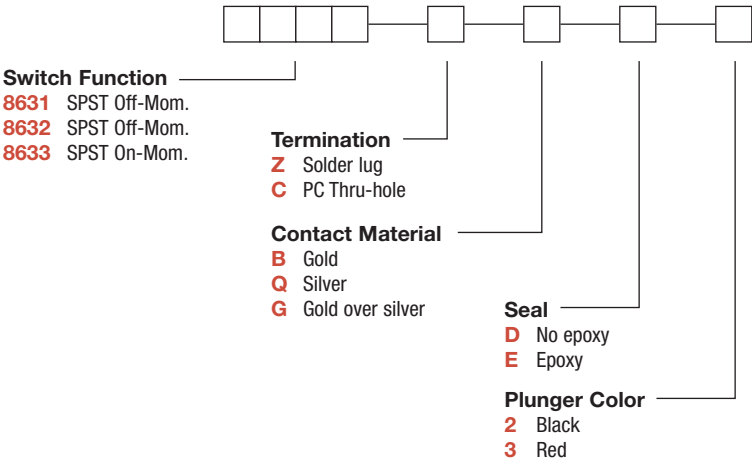
HARDWARE: Nut: Brass, nickel plated.

**NOTE:** Any models supplied with Q, B or G contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-72 and A-73. For additional options not shown in catalog, consult Customer Service Center.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 8600 Series Microminiature Pushbutton Switches

## SWITCH FUNCTION



A

Pushbutton

| NO. POLES                                      | MODEL NO. | SWITCH FUNCTION |        | TOTAL TRAVEL                                         | ACTUATION FORCE     | SCHEMATIC            |
|------------------------------------------------|-----------|-----------------|--------|------------------------------------------------------|---------------------|----------------------|
|                                                |           | POS. 1          | POS. 2 |                                                      |                     |                      |
| SP                                             | 8631      | OFF             | MOM.   | .040 (1,02) TYP.                                     | 5 oz (140g) TYP.    | N.O.                 |
| <b>SPST</b><br><br>Part number shown: 8631ZQD2 |           |                 |        |                                                      |                     |                      |
| SP                                             | 8632      | OFF             | MOM.   | .106 (2,69) TYP. with overtravel<br>.024 (0,61) TYP. | 6.25 oz (177g) TYP. | N.O. with overtravel |
| <b>SPST</b><br><br>Part number shown: 8632ZQD2 |           |                 |        |                                                      |                     |                      |
| SP                                             | 8633      | ON              | MOM.   | .048 (1,22) TYP.                                     | 5 oz (140g) TYP.    | N.C.                 |
| <b>SPST</b><br><br>Part number shown: 8633ZQE2 |           |                 |        |                                                      |                     |                      |

MOM. = Momentary

**NOTE:** Caps available for plunger options, see page A-73.

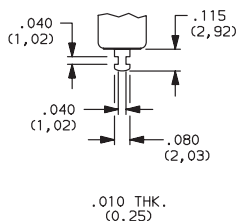
## TERMINATIONS



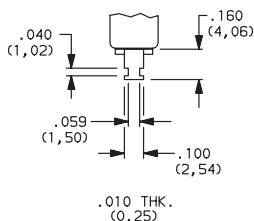
**Z** SOLDER LUG

**C** PC THRU-HOLE

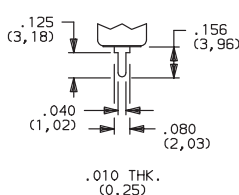
8631, 8632 models only.



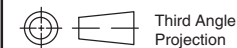
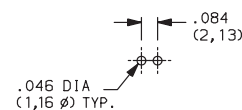
8633 models only.



8631, 8632 models only.



**PC MOUNTING**



**C&K**

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

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CONTACT MATERIAL

| OPTION CODE | RoHS COMPLIANT * | RoHS COMPATIBLE * | CONTACT MATERIAL   | TERMINAL PLATING | RATINGS                        |                                                                                                                                                                      |
|-------------|------------------|-------------------|--------------------|------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B           | YES              | YES               | GOLD 1             | GOLD 1           | LOW LEVEL/ DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                                                                                                     |
| Q           | YES              | YES               | SILVER 4           | SILVER 5         | 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              | YES               | GOLD OVER SILVER 4 | GOLD 3           | 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. |

\* Note: 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.

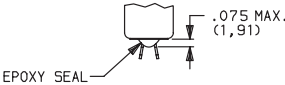
NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

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

E 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

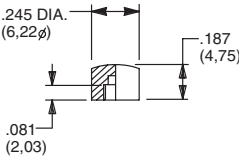
| OPTION CODE | COLOR |
|-------------|-------|
| 2           | BLACK |
| 3           | RED   |

AVAILABLE HARDWARE

Cap

- PART NO.
- 785101000 WHITE
  - 785102000 BLACK
  - 785103000 RED

Material: Nylon  
Finish: Gloss



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



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change