

### Features/Benefits

- Pre-travel or over-travel models available
- Ratings up to 3 AMPS
- Reliable contact design
- RoHS compliant

### **Typical Applications**

- Detection
- Telecommunications and networking equipment
- Computers and peripherals



#### Specifications

CONTACT RATING: Q contact material (853X Models): 1 AMP @ 120 V AC or 28 V DC; (855X Models): 3 AMPS @ 120 V AC or 28 V DC. See page A-65 for additional ratings.

ELECTRICAL LIFE:

853X MODELS: 250,000 actuations at full load. 855X MODELS: 10,000 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: 1,000 Vrms min. @ sea level. OPERATING TEMPERATURE: -30°C to 65°C.

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.

#### Materials

CASE: Glass filled phenolic or diallyl phthalate (DAP) (UL 94V-0).

PLUNGER: Phenolic or glass filled polyester, black standard(UL94V-0). CAP & FRAME: Nylon, black, standard.

BUSHING: Brass, nickel plated.

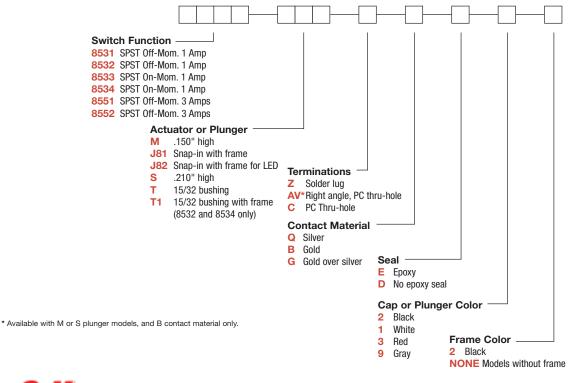
- CONTACTS: Q contact material: Coin silver, silver plated. See page A-65 for additional contact materials.
- TERMINALS: Q contact material: Copper alloy, silver plated. See page A-65 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut: Brass, nickel plated; Lockwasher: Steel, bright nickel plated.

#### **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-63 thru A-66. 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.



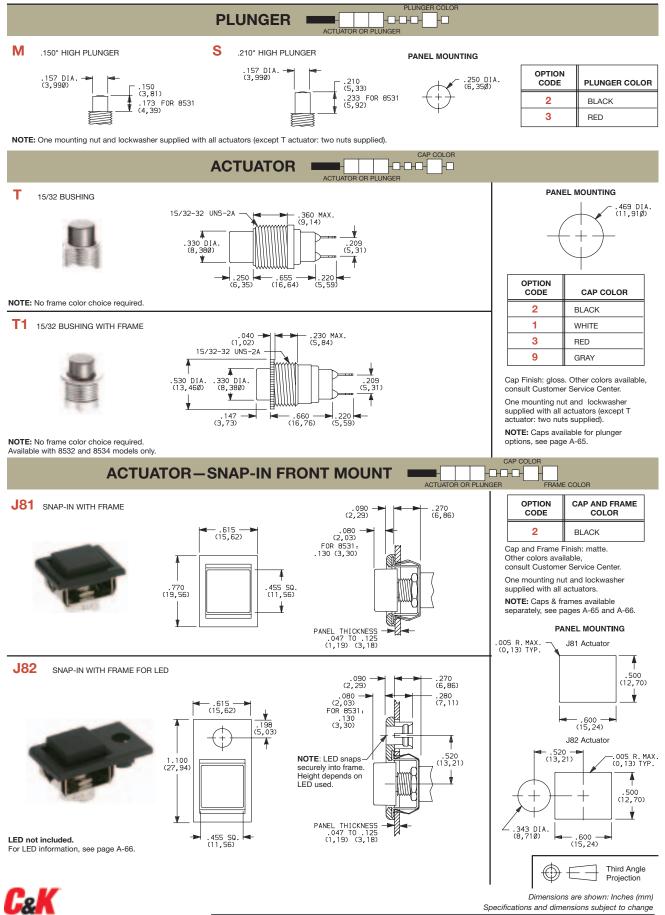


**SWITCH FUNCTION** SWITCH FUNCTION POS. 1 POS. 2 NO. POLES MODEL NO. ACTUATION FORCE 4 4 RATING TOTAL TRAVEL SCHEMATIC 8531 1 AMP with overtravel SP OFF MOM. .095 (2,41) TYP. 7.7 oz (220g) TYP. N.O. with overtravel .042 (1,07) TYP. • • 8551 3 AMPS SPST 1/4-40 UNS-2A .173 EPOXY SEAL ŧ Ť .015 TYP. (0,38) .209 (5,31) 375 DIA (9,53Ø)  $\bigcirc$ .157 DIA. 4 ŧ .100 (2,54) .227 - .427 - .220 -(5,77) (10,85) (5,59) Part number shown: 8531MZQE2 8532 1 AMP N.O. SP OFF MOM. .050 (1,27) TYP. 6 oz (170g) TYP. • • 8552 3 AMPS SPST 1/4-40 UNS-2A .150 EPOXY SEAL ł ¥ .015 TYP. (0,38) .209 (5,31) 375 DIA. (9,53Ø)  $\bigcirc$ .157 DIA. ŧ 4 .100 (2,54) .315 (8,00) .250 .220 (5,59) Part number shown: 8532MZQE2 with pretravel 8533 1 AMP -•\_-MOM. .080 (2,03) TYP. 11.5 oz (456 g) TYP. ON N.C. with pretravel .057 (1,45) TYP. SP with overtravel 8534 1 AMP ON MOM. .032 (0,81) TYP. 10.3 oz (282g) TYP. N.C. woth overtravel \_\_\_\_\_ .028 (0,71) TYP. SPST 1/4-40 UNS-2A .150 (3,81) EPOXY SEAL V Ŵ .015 TYP. (0,38) .209 375 DIA. (9,53Ø)  $\cap$ .157 DIA. 4 4 .100 (2,54) .250 🔫 .427 ➡ .220 🔫 (6,35) (10,85) (5,59) Part number shown: 8533MZQE2

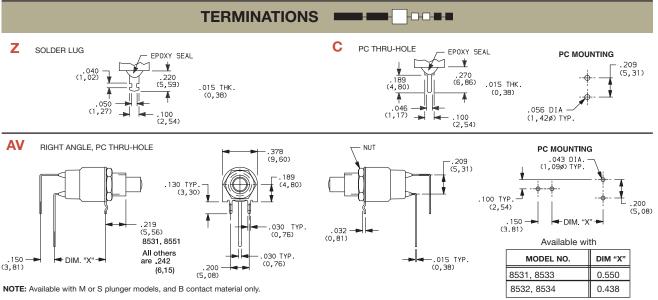
MOM. = Momentary

All models . The with all options when ordered with G or Q contact material.



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ck-components.com 

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### CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	TERMINAL PLATING	CONTACT MATERIAL	RATINGS	
В	YES	YES	GOLD <sup>1</sup>	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Q	YES	YES	SILVER <sup>4</sup>	SILVER 5	POWER	853X MODELS: 1 AMP @ 120 V AC OR 28 V DC. 855X MODELS: 3 AMPS @ 120 V AC OR 28 V DC.
G	YES	YES	GOLD OVER SILVER <sup>2</sup>	GOLD 3	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 V MAX @20 V AC OR DC MAX. OR 853X MODELS: 1 AMP @ 120 V AC OR 28 V DC. 855X MODELS: 3 AMPS @120 V AC OR 28 V DC.

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

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> CONTACTS: Coin silver, silver plated.

<sup>5</sup> TERMINALS: Copper alloy, silver plated.

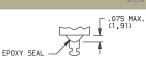
All models Reference with all options when ordered with G or Q contact material.

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

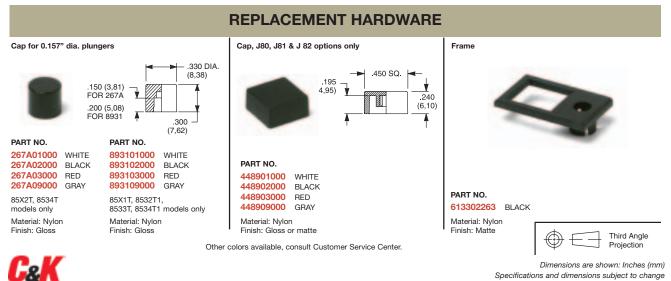
Q contact material standard with C, Z terminations.

8551 & 8552 available with Q contact material only.

E EPOXY SEAL



SEAL



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### **AVAILABLE HARDWARE**

Frame PART NO.



**NOTE:** Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware". Other colors available, consult Customer Service Center.

Material: Nylon Finish: Matte

615602263 BLACK

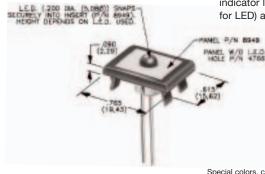
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.





.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.						
PART NO.	PART NO.	PART NO.	PART NO.						
432502263	432602263	432702263	432802263 BLACK						
PANEL MOUNTING									
For part numbers 4325xxxxx, 4326xxx		For part numbers 4327xxxxx, 4328xxxxx							
.005 R. (0,13) MAX. TYP.	.495 ± .505 (12,57 ± 12,83)	.005 (0,13 MAX.	$(1257 \pm 1283)$						
.595 ± .605 (15,11 ± 15,37)	<del>a</del> -	.620 ± (15,75 ±							

Panel Inserts



Above frames (part nos. 432XXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.** 

PANEL INSERT WITH HOLE FOR LED PART NO. 894902000

WITHOUT HOLE FOR LED

476602000 BLACK

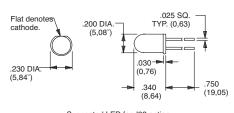
BLANK PANEL INSERT

Special colors, custom markings available, consult Customer Service Center.

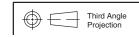
#### LED INFORMATION

**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

LEDs are not supplied with J82 option. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J82 option. Dimensions for reference only.



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

