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 $30 \mathrm{~m} \Omega$ typ. initial @
2-4 V DC, 100 mA , for both silver and gold plated contacts.
INSULATION RESISTANCE: $10^{9} \Omega \mathrm{~min}$.
DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.
OPERATING TEMPERATURE: $-30^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C}$.
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.



## MOM. $=$ Momentary

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


NOTE: One mounting nut and lockwasher supplied with all actuators (except T actuator: two nuts supplied).


J81 SNAP-In With frame


## 8500 Series <br> Subminiature Pushbutton Switches



* 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.
${ }^{4}$ CONTACTS: Coin silver, silver plated.
${ }^{5}$ TERMINALS: Copper alloy, silver plated.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.
All models with all options when ordered with $G$ or $Q$ contact material.
Q contact material standard with $\mathrm{C}, \mathrm{Z}$ terminations.
8551 \& 8552 available with $Q$ contact material only.
E EPOXY SEAL $\quad$ SEAL EPOXY SEAL


PART No.
267 A01000 WHITE
267 A02000 BLACK
267 A 03000 RED 267A09000 GRAY
85X2T, 8534T models only
Material: Nylon
Finish: Gloss


PART No. 893101000 WHITE 893102000 BLACK 893103000 RED
893109000 GRAY 85X1T, 8532T1, 8533T, 8534T1 models only Material: Nylon Finish: Gloss


Frame

PART NO.
613302263 BLACK
Material: Nylon Finish: Matte


Other colors available, consult Customer Service Center.

Frame

PART NO.
615602263 BLACK
Material: Nylon
Finish: Matte

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

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
PART No.
432502263
.062" (1,57) PANEL THK.
PART No.
432602263
.090" $(2,29)$ PANEL THK.
PART NO.
432702263

TYPICAL APPLICATION

.125" $(3,18)$ PANEL THK.
PART NO.
432802263 BLACK

For part numbers 4325xxxxx, 4326xxxxx


For part numbers 4327xxxxx, 4328xxxxx


Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for


BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO.
476602000 BLACK

Special colors, custom markings available, consult Customer Service Center.
LED INFORMATION
Process Information: Soldering to LED leads must be completed within 5 seconds at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ 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.

Projection

