8500 Series **Subminiature Pushbutton Switches**



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.

853X MODELS: 250,000 actuations at full load. 855X MODELS: 10,000 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: 10⁹Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 65°C.

TORQUE SPECS: T, T1 15/32" bushings - 50 in. lbs max. All other 1/4 -40 bushing types 12 in. lbs max.

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.

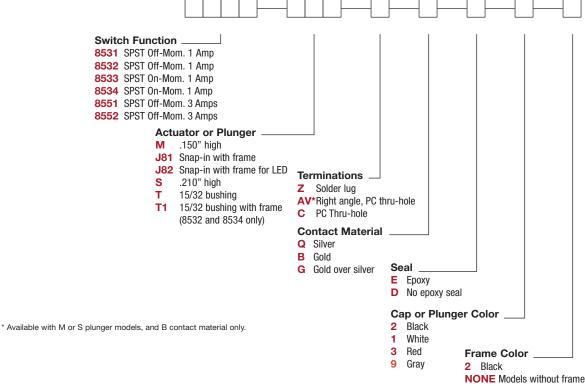
HARDWARE: Nut: Brass, nickel plated; Lockwasher: Steel, bright nickel plated.

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.

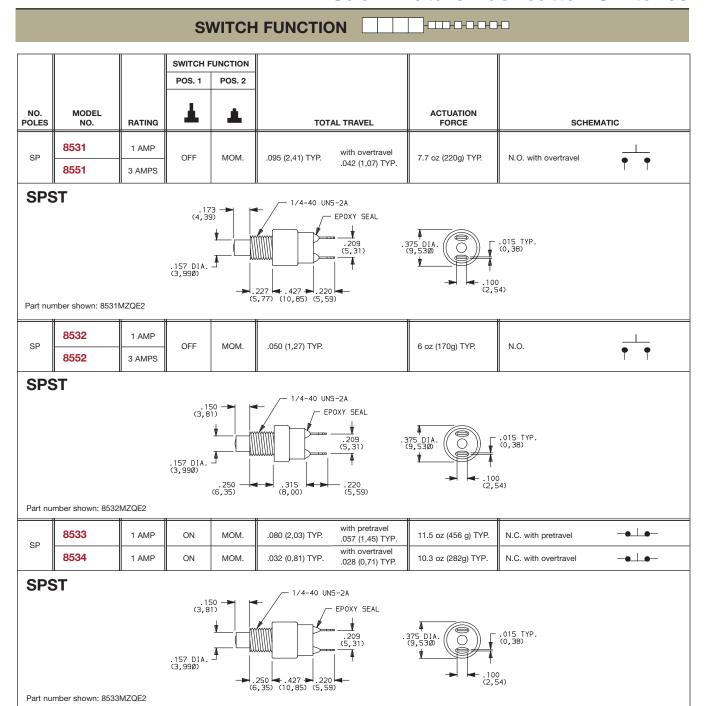
Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-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.





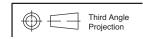
8500 Series **Subminiature Pushbutton Switches**



MOM. = Momentary

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

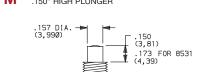


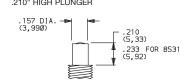


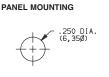
Pushbutton

8500 Series **Subminiature Pushbutton Switches**

PLUNGER = ----.210" HIGH PLUNGER .150" HIGH PLUNGER







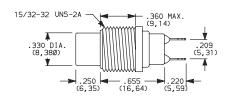
OPTION CODE	PLUNGER COLOR
2	BLACK
3	RED

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





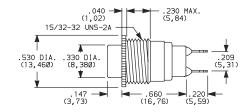
15/32 BUSHING



NOTE: No frame color choice required.

T1 15/32 BUSHING WITH FRAME





NOTE: No frame color choice required. Available with 8532 and 8534 models only.

J81 SNAP-IN WITH FRAME

PANEL MOUNTING



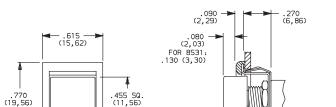
OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
9	GRAY	

Cap Finish: gloss. Other colors available, consult Customer Service Center.

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

NOTE: Caps available for plunger options, see page A-65.

ACTUATOR – SNAP-IN FRONT MOUNT

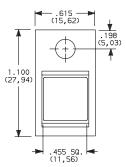


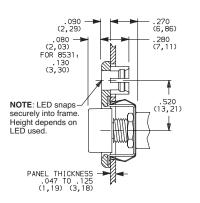
PANEL THICKNESS .047 TO .125 (1,19) (3,18)

J82 SNAP-IN WITH FRAME FOR LED









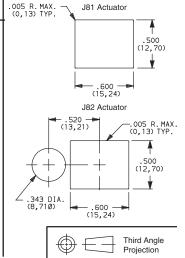
OPTION	CAP AND FRAME	
CODE	COLOR	
2	BLACK	

Cap and Frame Finish: matte. Other colors available, consult Customer Service Center.

One mounting nut and lockwasher supplied with all actuators.

NOTE: Caps & frames available separately, see pages A-65 and A-66.

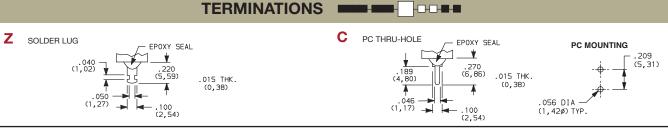
PANEL MOUNTING J81 Actuator

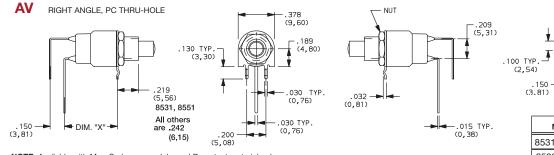




.200

8500 Series **Subminiature Pushbutton Switches**





MODEL NO. DIM "X" 8531, 8533 0.550 8532, 8534 0.438

Available with

-DIM. "X"

PC MOUNTING

.043 DIA. (1,09ø) TYP.

.150

NOTE: Available with M or S plunger models, and B contact material only

CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	TERMINAL PLATING	CONTACT MATERIAL	II RATINGS		
В	YES	YES	GOLD ¹	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Q	YES	YES	SILVER ⁴	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 ²	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.

- 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 C, Z terminations

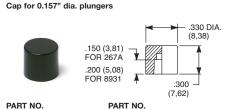
8551 & 8552 available with Q contact material only

SEAL





REPLACEMENT HARDWARE



267A01000 WHITE 267A02000 BLACK 267A03000 267A09000

85X2T, 8534T Material: Nylon

Finish: Gloss

PART NO. 893101000 WHITE 893102000 BLACK 893103000 RED 893109000 85X1T, 8532T1,

8533T, 8534T1 models only Material: Nylon Finish: Gloss

Cap, J80, J81 & J 82 options only .450 SQ. .195 4,95) .240 (6,10)

PART NO. 448901000 WHITE 448902000 BLACK 448903000 RED 448909000 GRAY Material: Nylon Finish: Gloss or

Other colors available, consult Customer Service Center.



PART NO. 613302263 BLACK Material: Nvlon

Finish: Matte



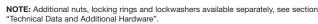
8500 Series **Subminiature Pushbutton Switches**

AVAILABLE HARDWARE

Frame

PART NO. 615602263 BLACK





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.



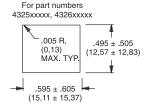


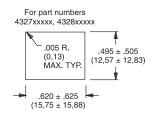
.090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

PART NO. PART NO.

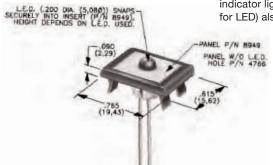
432702263 432802263 BLACK

PANEL MOUNTING





Panel Inserts



Above frames (part nos. 432XXXXXX) 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

WITHOUT HOLE FOR LED

PART NO.

PART NO.

BLANK PANEL INSERT

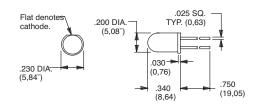
894902000 476602000 BLACK

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°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.





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LW1L-M1C10V-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M7E-HRN2 67021K512 67081K512X 701PB580 719-5504-000

MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

ABD122N-B 1211390004 ABN111-Y ABN400-R 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047

1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

1301940184 RELBARF6X10(PLASTIC)