

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

® **SU**Models Available

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 Ω 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.

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.

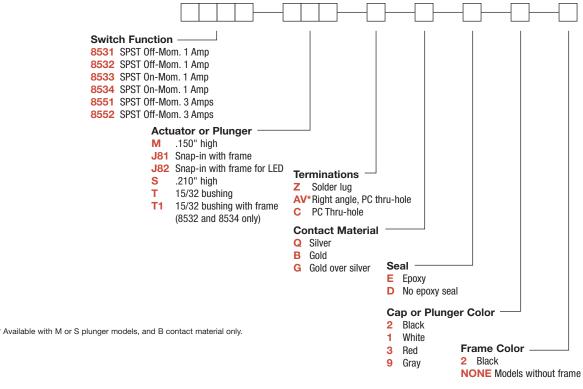
HARDWARE: Nut: Brass, nickel plated; Lockwasher: Steel, bright nickel plated.

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.





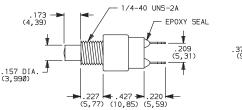
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

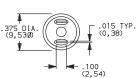
S A

SWITCH FUNCTION

			SWITCH F	UNCTION					
			POS. 1	POS. 2					
NO. POLES	MODEL NO.	RATING	1	•	TOTAL	TRAVEL	ACTUATION FORCE	SCHEM	MATIC
	8531	1 AMP				with overtravel			
SP		II .	OFF	MOM.	.095 (2,41) TYP.	Willi Overliavei	7.7 oz (220g) TYP.	N.O. with overtravel	

SPST

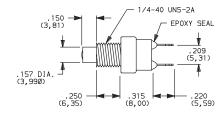


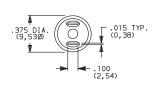


Part number shown: 8531MZQE2

SP	8532	1 AMP	OFF	MOM.	.050 (1,27) TYP.	6 oz (170g) TYP.	N.O.	
J. J.	8552	3 AMPS	OFF	IVIOIVI.				† †

SPST

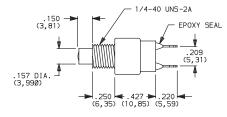


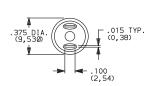


Part number shown: 8532MZQE2

SP	8533	1 AMP	ON	мом.	.080 (2,03) TYP.	with pretravel .057 (1,45) TYP.	11.5 oz (456 g) TYP.	N.C. with pretravel	
J.	8534	1 AMP	ON	мом.	.032 (0,81) TYP.	with overtravel .028 (0,71) TYP.	10.3 oz (282g) TYP.	N.C. with overtravel	

SPST

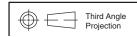




MOM. = Momentary

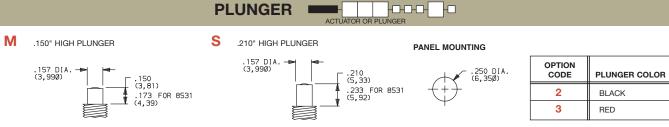
Part number shown: 8533MZQE2

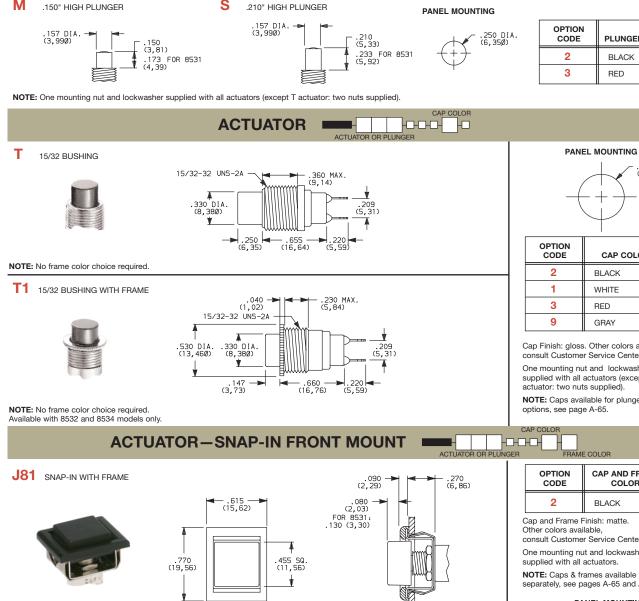
All models with all options when ordered with G or Q contact material.

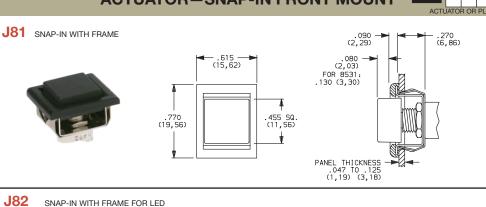


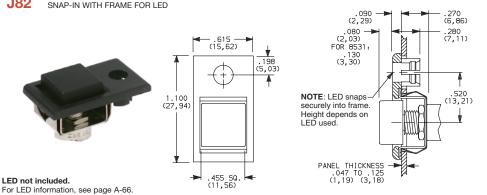
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

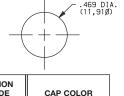












OPTION CODE	CAP COLOR
2	BLACK
1	WHITE
3	RED
9	GRAY

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).

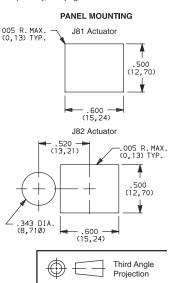
NOTE: Caps available for plunger options, see page A-65.



consult Customer Service Center.

One mounting nut and lockwasher supplied with all actuators.

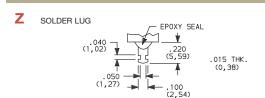
NOTE: Caps & frames available separately, see pages A-65 and A-66.

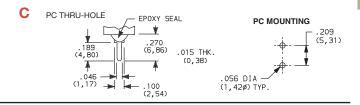


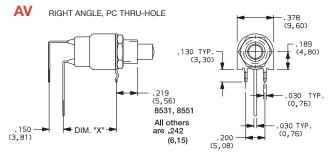


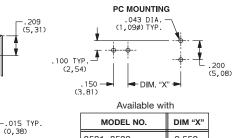
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

TERMINATIONS ---









0.550

0.438

8531, 8533

8532, 8534

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

CONTACT MATERIAL

.032 (0.81)

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	TERMINAL PLATING	CONTACT MATERIAL	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.
- $^{\rm 5}$ 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.

Frame

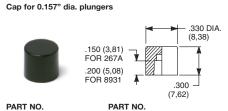
8551 & 8552 available with Q contact material only.

SEAL ---





REPLACEMENT HARDWARE



267A01000 WHITE 267A02000 BLACK 267A03000 RED 267A09000 GRAY 85X2T 8534T

893101000 WHITE 893102000 893103000 RED 893109000 GRAY 85X1T 8532T1

8533T, 8534T1 models only Material: Nylon

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

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

Other colors available, consult Customer Service Center.



PART NO. 613302263 BLACK

Material: Nvlon Finish: Matte



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



Material: Nylon

AVAILABLE HARDWARE

Frame

Material: Nylon Finish: Matte

PART NO.
615602263 BLACK

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.





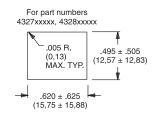
.090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

PART NO. PART NO.
432702263 BLACK
PANEL MOUNTING

For part numbers
4325xxxxx, 4326xxxxx

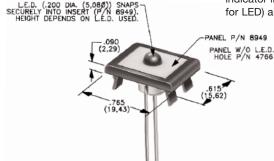
-.005 R.
(0,13)
MAX. TYP.

-.595 ± .605
(15,11 ± 15,37)



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 BLANK PANEL INSERT WITH HOLE FOR LED WITHOUT HOLE FOR LED

PART NO. PART NO.

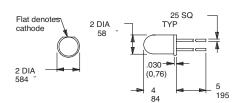
894902000 476602000 BLACK

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





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

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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)