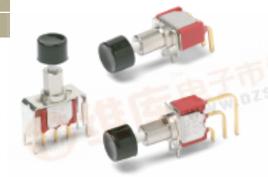
C&K 8060 Series



Features/Benefits

- Long travel
- Available with LED
- Long life contact design
- Epoxy terminial seal compatabile with bottom wash cleaning
- RoHS compliant models available

Materials

- **Typical Applications**
- Instrumentation
- Computers and peripherals

Models Available

 Telecommunications and networking equipment

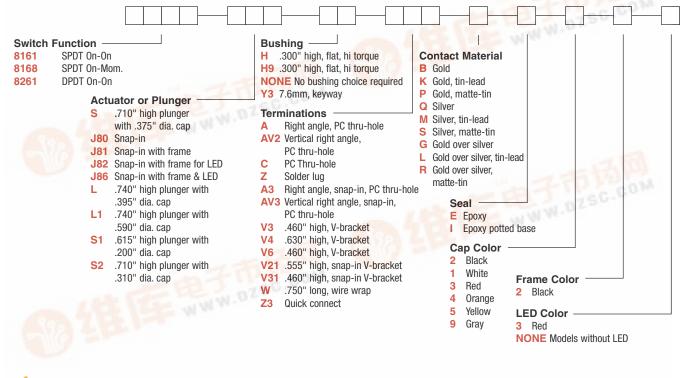


- CONTACT RATING: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. See page A-57 for additional ratings.
- ELECTRICAL LIFE: 50,000 make-and-break cycles at full load. CONTACT RESISTANCE: Below 20 mΩ typ. initial @
- 2-4 V DC, 100 mA, for both silver and gold plated contacts.
- INSULATION RESISTANCE: $10^{9}\Omega$ min.
- DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.
- OPERATING TEMPERATURE: -30°C to 65°C
- SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).
- CAP INSTALLATION FORCE: 10 lbs. maximum permissible.
- NOTE: Any models supplied with P, R, S, Q, B or G contact material are RoHS compliant For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.
- NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

- CASE: Glass filled nylon 6/6 or diallyl phthalate (DAP),
- Flame retardant (UL 94V-0).
 PLUNGER: S, S1, S2 Options: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0). L, L1 Options: Brass, nickel plated.
- CAP & FRAME: Nylon, black standard.
- BUSHING: Brass or zinc, nickel plated.
- HOUSING: Stainless steel.
- SWITCH SUPPORT: Brass or steel, matte-tin plated.
- END CONTACTS: Q contact material: Coin silver, silver plated. See page A-57 for additional contact materials.
- CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-57 for additional contact materials.
- TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter.
- HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, 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-51 thru A-59. 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.





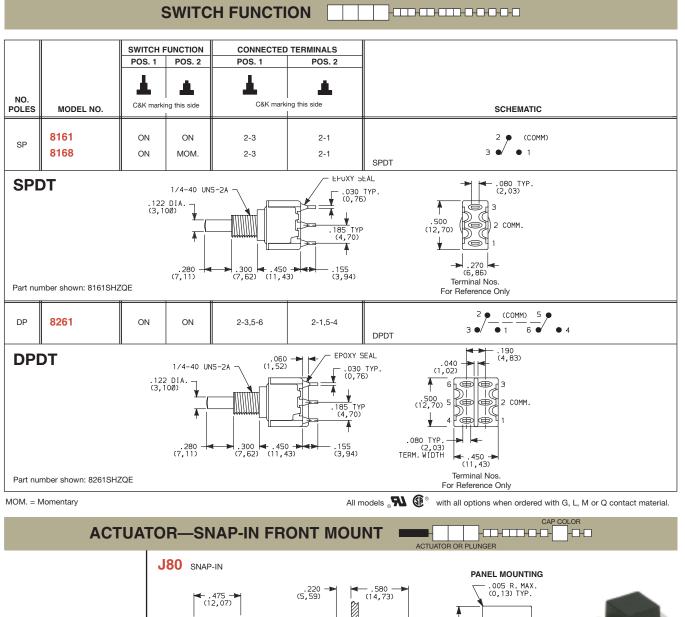
C&K 8060 Series

╏

A

Pushbutton

查询"8261SAPE223" Alternate Action and Momentary Pushbutton Switches

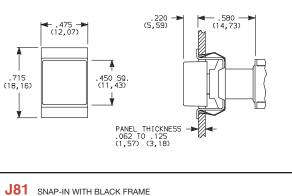




Cap Finish: matte. . Other colors available, consult Customer Service Center.

Available with C, W, Z or Z3 terminations NOTE: Caps & frames available separately, see pages A-58 and A-59.





.090

Ā

.450 (11,43)

*

.145 (3,68)

A

.450 SQ (11,43)

- .615 -(15,62)

.765

.600 (15,24) ⊢ .500 → (12,70)

.620/.625 (15,75/15,88) for .091/.125 (2,41/2,18) thick panels.

—^{*}.600 — (15,24)

*Increase this dimension to

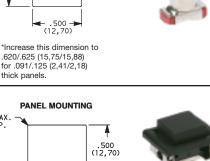
thick panels.

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

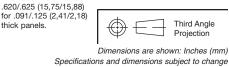
-.565 -(14,35)

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

Þ



V



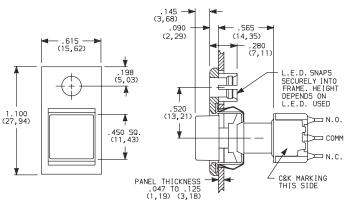
www.ittcannon.com

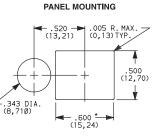
C&K 8060 Series Alternate Action and Momentary Pushbutton Switches

ACTUATOR—SNAP-IN FRONT MOUNT

J82 SNAP-IN WITH BLACK FRAME FOR LED







* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thick panels.

PANEL MOUNTING

.500 ->
 (12,70)

for .091/.125 (2,31/3,18) thick panels.

* Increase this dimension to .620/.625 (15,75/15,88)

.600 (15,24)

۷

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

Available with C, W, Z or Z3 terminations.

LED not included. For LED information, see page A-59.

NOTE: Caps & frames available separately, see pages A-58 and A-59.

Other colors available, consult Customer Service Center.

OPTION CODE	CAP COLOR		
2	BLACK		
1	WHITE		
3	RED		
4	ORANGE		
5	YELLOW		
9	GRAY		

.090 (2,29)

.145 (3,68)

- .562 -(14,27)

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

OPTION CODE

3

V

SE

ACTUATOR—SNAP-IN FRONT MOUNT

LED COLOR -ACTUATOR OR PLUNGER

> SHORT LEAD IS CATHODE ⊐ N.C.

> > сомм.

C&K MARKING ON OPPOSITE SIDE

LED COLOR

RED

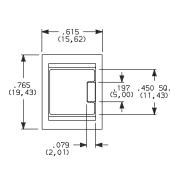
For LED information, see page A-59.

⊐ N.O

N.C.

J86 SNAP-IN WITH BLACK FRAME AND LED





8161J86ZQE223 SPDT

Available with C, W, Z or Z3 terminations and SPDT models only

NOTE: Caps & frames available separately, see pages A-58 and A-59

Other colors available consult Customer Service Center.





1

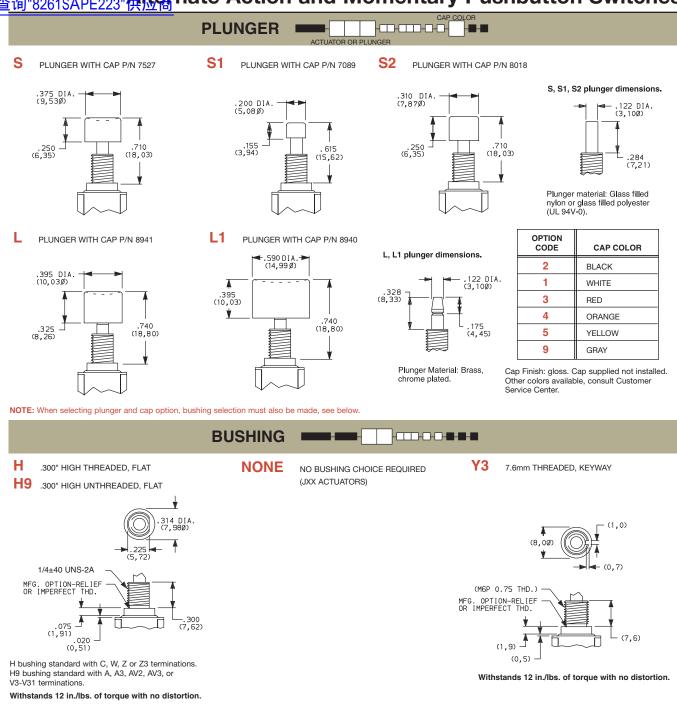
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

¥

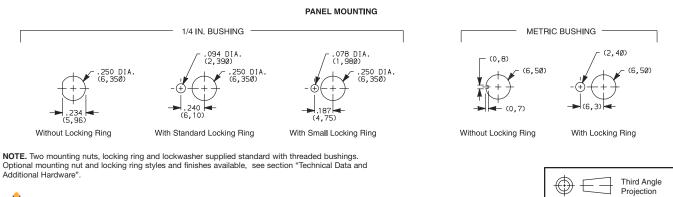
Third Angle

Projection





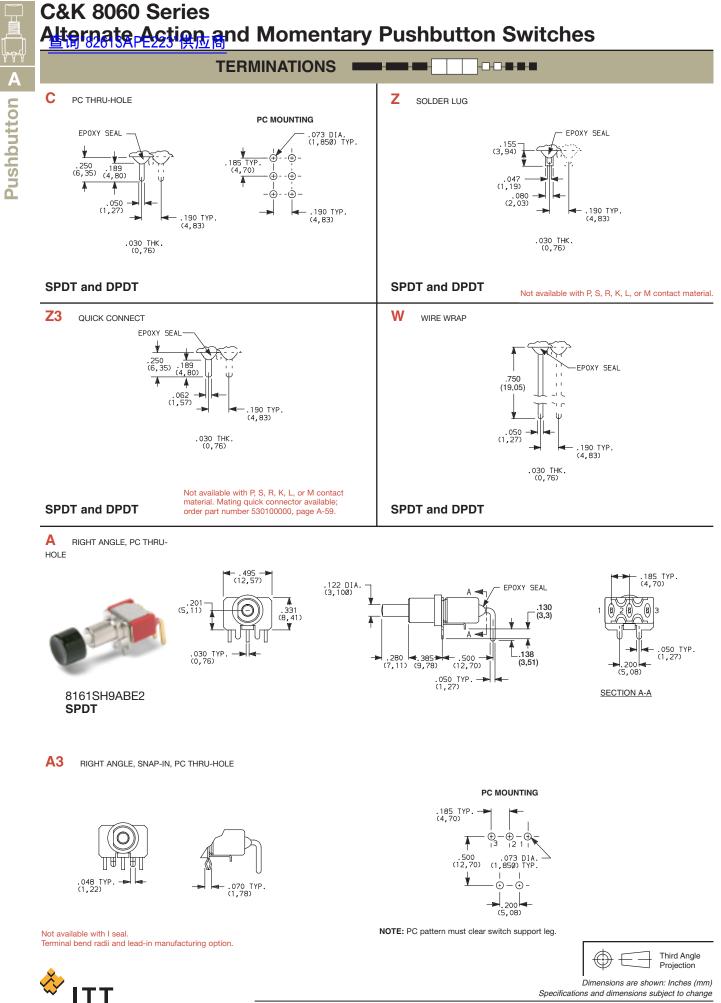
NOTE: When selecting bushing option, plunger selection must also be made, see above. No bushing option choice required when any JXX actuator option is selected.





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

A-53



Specifications and dimensions subject to change

1

C&K 8060 Series 查询"8261SAPE223" Alternate Action and Momentary Pushbutton Switches ₿ţ A Α RIGHT ANGLE, PC THRU-HOLE Pushbutton .185 TYP. (4,70) - .500 -EPOXY SEAL .122 DIA. (3.100) (1) โด Ó .450 (11,43) (8) (1) V А .225 (5,72) L.125 (3,18) .048 TYP. (1,22) .050 TYP. .030 TYP. (0,76) 8261SH9ABE2 200 .280 .385 (9,78) .500 (12,70) .150 (3,81) (5.08) DPDT SECTION A-A **A3** RIGHT ANGLE, SNAP-IN, PC THRU-HOLE PC MOUNTING .185 TYP. (4,70) (3,81) Ð ⊕___ Æ .500 (12,70) 073 DIA .070 TYP. (1,78) Ò (\mathbf{r}) 200 (5,08)Not available with I seal Terminal bend radii and lead-in manufacturing option. AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH .270 (6,86) EPOXY SEAL A 剩 .122 DIA. (3,100) A 34 📼 .500 (12,70) 2 .106 TYP. (2,69) . 125 (3, 18) S ∀ ¥ .250 (6,35) .280 (7,11) Α 🛹 -.050 TYP. (1,27) .050 TYP. (1,27) .150 TYP. (3,81) - .500 -(12,70) .385 (9,78) .200 (5,08) 8161SH9AV2BE2 SPDT .030 TYP.

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



.048 TYP (1,22) .070 TYP. (1,78) Not available with I seal. Terminal bend radii and lead-in manufacturing option.

ТТ

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

Third Anale

SECTION A-A

.150 TYP (3,81)

PC MOUNTING

-_⊕-⊕-1 .500 .073 DIA. (12,70) (1,850) TYP.

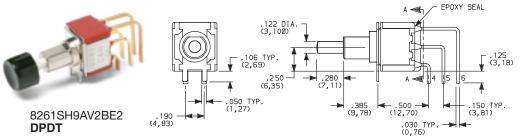
200

(5,08)

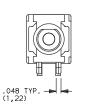
C&K 8060 Series Alternate Action and Momentary Pushbutton Switches

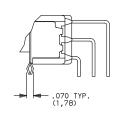


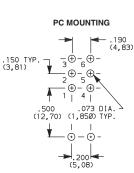




AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH







⊦.450 ⊣ (11,43)

.200 (5,08)

SECTION A-A

2 .500

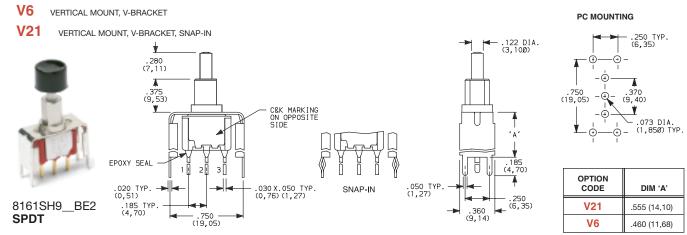
.050 TYP. (1,27)

5

6

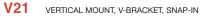
Not available with I seal.

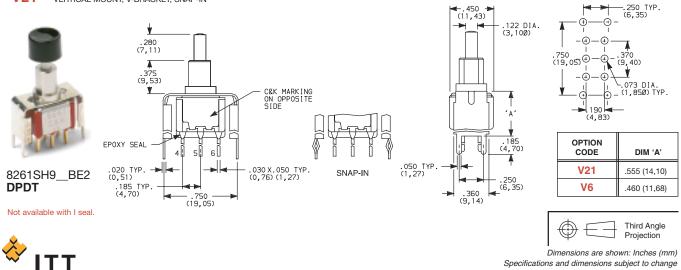
Terminal bend radii and lead-in manufacturing option.



Not available with I seal.

V6 VERTICAL MOUNT, V-BRACKET

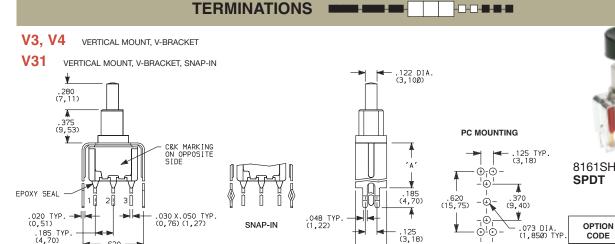




Specifications and dimensions subject to change

PC MOUNTING

C&K 8060 Series 查询"8261SAPE223" Alternate Action and Momentary Pushbutton Switches



8161SH9_BE2

P. OPTION CODE	DIM 'A'		
V3, V31	.460 (11,68)		
V4	.630 (16,00)		

DIM 'A'

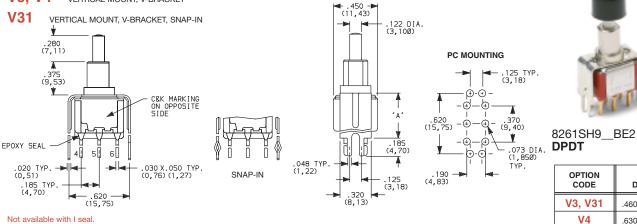
.460 (11,68)

.630 (16,00)

V3, V4 VERTICAL MOUNT, V-BRACKET

Not available with I seal.

- .620 -(15,75)



CONTACT MATERIAL . . .

.320 (8,13)

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT MATERIAL	TERMINAL PLATING	RATINGS			
В	YES	YES		GOLD 1				
К	NO	YES	GOLD 1	TIN-LEAD 6	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.		
Р	YES	YES		MATTE-TIN 7				
Q	YES	YES		SILVER 5	POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.		
М	NO	YES	SILVER 4,5	TIN-LEAD 6				
S	YES	YES		MATTE-TIN 7				
G	YES	YES		GOLD 3	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX @ 20 V AC OR DC MAX. OR		
L	NO	YES	GOLD OVER SILVER ^{2,3}	TIN-LEAD 6		6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.		
R	YES	YES	SILVER -,*	MATTE-TIN 7				

* 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 END CONTACTS: Coin silver, with gold plate over nickel plate.

³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ END CONTACTS: Coin silver, silver plated.

⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

⁷ TERMINALS: Copper alloy, with matte-tin over nickel plate.



NOTE: Any models supplied with P, S, R,Q, B or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models **N** () with all options when ordered with S, R, G, L, M or Q contact material.

B contact material standard with all terminations except C, Z & Z3.

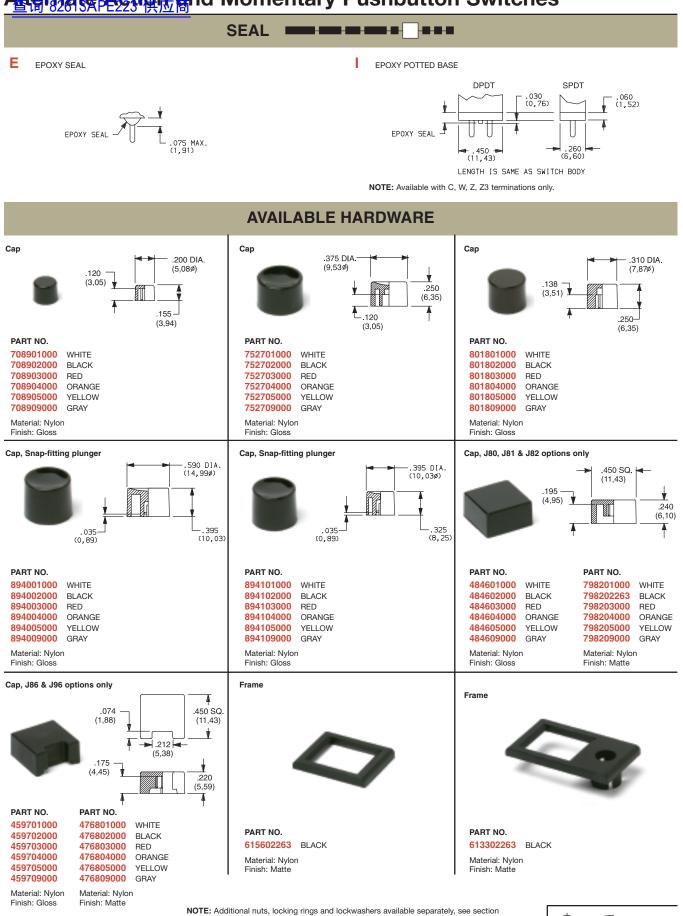
Q contact material standard with C, Z & Z3 terminations.

P, S, R, K, L & M contact materials not available with Z & Z3 terminations.



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

C&K 8060 Series



"Technical Data and Additional Hardware". Other cap & frame colors available, consult Customer Service Center.

Pushbutton >

Third Angle

Projection

C&K 8060 Series 查询"8261SAPE223" Alternate Action and Momentary Pushbutton Switches

AVAILABLE HARDWARE

Fits Z3 Termination female connector

Available in loose pieces.

PART NO. 530100000



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.

For part numbers

4325xxxxx, 4326xxxxx

.005 R.

MAX. TYP

.595 ± .605

 $(15, 11 \pm 15, 37)$

(0.13)



PART NO. 432502263 .062" (1.57) PANEL THK. PART NO. 432602263

.495 ± .505 (12,57 ± 12,83)

PART NO.

.090" (2.29) PANEL THK.

PART NO.

PANEL MOUNTING

432702263

432802263 BLACK

.125" (3.18) PANEL THK.

For part numbers 4327xxxx, 4328xxxxx .005 R. .495 ± .505 (12,57 ± 12,83) (0.13)MAX TYP

.620 ± .625

 $(15,75 \pm 15,88)$

Panel Inserts



LED INFORMATION

SWITCHES WITH LED SUPPLIED: J86 OPTION:

Rectangular LEDs are supplied on 8060 Series pushbutton switches with J86 option. These LEDs are factory installed and are not replaceable. The following specifications apply:

		TYP.	TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE			Flat denotes	.025 SQ.	
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD CURRENT	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION	cathode200 DIA	TYP. (0,63)	
6	Green	1.0 mcd		20 mA		50 mA	125 mW			
3	Red*	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW	.230 DIA . 	.030	
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW	-	.340 .750 (8.64) .750	

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

Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.

* Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center.

LEDs are not supplied with J82 & J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



Projection Dimensions are shown: Inches (mm)

Suggested LED for J82 & J84 options. Dimensions for reference only.

Specifications and dimensions subject to change

Third Angle