

Features/Benefits

- *Thermoset UL 94V-0 housing*
- *Rugged construction*
- *Variety of actuator and termination options*
- *RoHS compliant*

Typical Applications

- *Small equipment*
- *Shut-off switch*

UL 61058-1

Specifications

CONTACT RATING:

9201 Model:

GP (general purpose)
6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3)
3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
R (resistive)
6 AMPS 30 VDC T85 10,000 cycles

9221 Model:

GP (general purpose)
10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
R (resistive)
10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 25,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2–4 V DC, 100 mA.

INSULATION RESISTANCE: 10^9 Ω min.

DIELECTRIC STRENGTH: 2,500 Vrms min. @ sea level.

OPERATING TEMPERATURE: –30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

Materials

CASE: Diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black standard.

FRAME-REAR MOUNT OPTIONS: Spring steel, black.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

MOUNTING BRACKET: Stainless steel.

END CONTACTS: 9201 Model: Coin silver, silver plated.
9221 Model: Silver cadmium oxide.

CENTER CONTACTS: Copper alloy, silver plated

ALL TERMINALS: 9201 Model: Copper alloy, silver plated.
9221 Model: Copper alloy, matte-tin plated.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

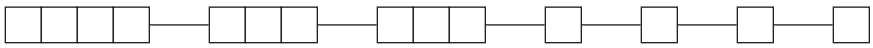
*Cadmium used in electrical contacts is acceptable for RoHS.

NOTE: Any models supplied with Q 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 G-52 through G-55. For additional options not shown in catalog, consult Customer Service Center.



Switch Function
9201 DP On-On, 6 Amps
9221 DP On-On, 10 Amps

Actuator
J1 Rocker
J2 Lever
J3 Rocker
J37 Rocker with metal frame

Terminations
Z Solder lug (9201 only)
AV2 Vertical right angle, PC thru-hole (9201 only)
C PC Thru-hole (9201 only)
Z4 Quick connect

Contact Material
Q Silver

Seal
E Epoxy
D No Seal

Actuator Color
2 Black
1 White
3 Red

Frame Color
2 Black
NONE No frame color required

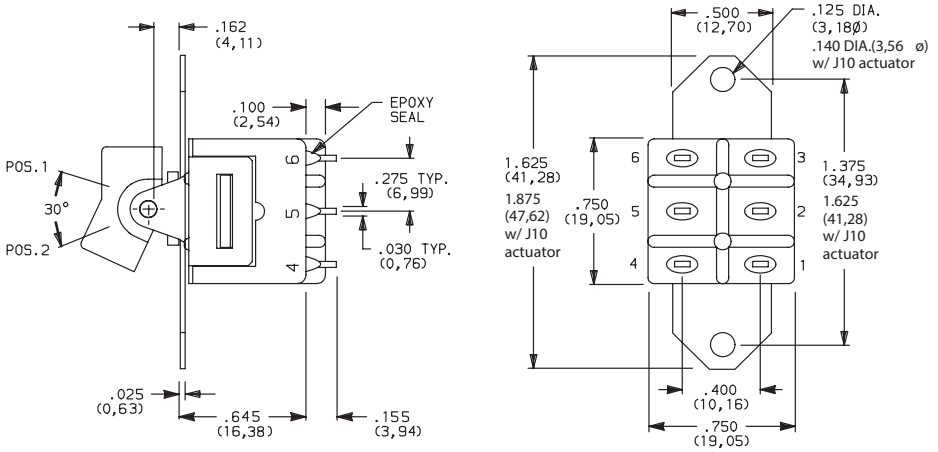
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

9000 Series
Power Rocker and Lever Handle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	RATING*	SWITCH FUNCTION POS. 1	SWITCH FUNCTION POS. 2	CONNECTED TERMINALS POS. 1	CONNECTED TERMINALS POS. 2	SCHEMATIC
DP	9201	6 AMPS	ON	ON	2-3,5-6	2-1,5-4	DPDT
	9221	10 AMPS	ON	ON			

DPDT



Part number shown: 9201J1ZQE2

All 9000 Series models meet international dimensional and electrical requirements.

* See CONTACT MATERIAL, page G-54, for complete ratings.

9221 model must be ordered with Z4 terminations and D seal option.

ACTUATOR–PANEL MOUNT

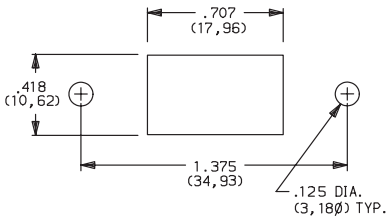
ACTUATOR COLOR / ACTUATOR

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

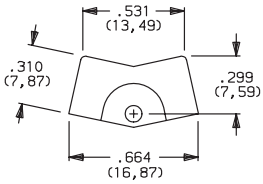
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

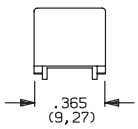
NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-55. Hardware available separately, see Technical Data section of this catalog.

PANEL MOUNTING



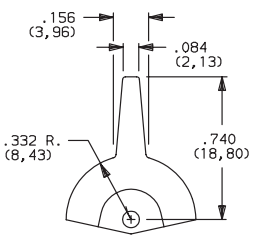
J1 ROCKER

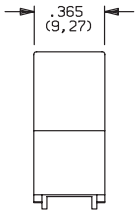


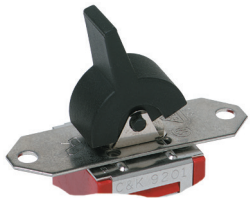




J2 LEVER



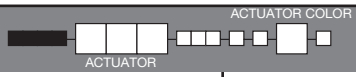




Third Angle Projection

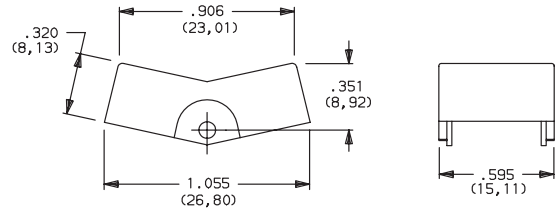
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

ACTUATOR–PANEL MOUNT

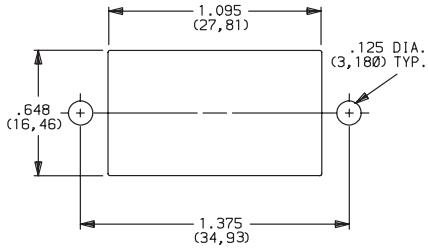


J3 ROCKER





PANEL MOUNTING

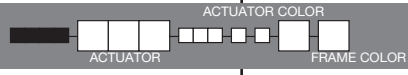


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Actuator finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

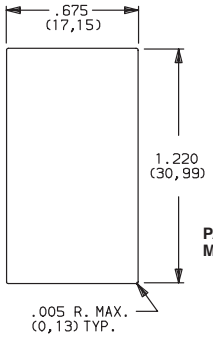
NOTE: Actuators available separately, see page G–55. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

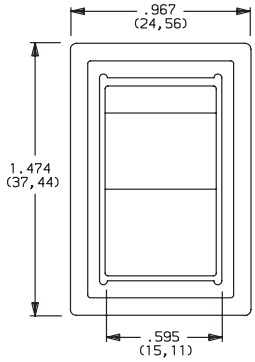
ACTUATOR–REAR MOUNT

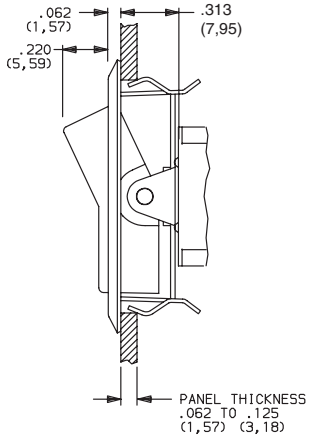


J37 ROCKER WITH METAL FRAME









Not available with AV2 termination.

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

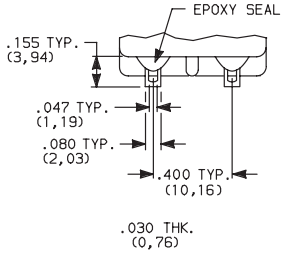
Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Actuators & frames available separately, see page G-55. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

TERMINATIONS

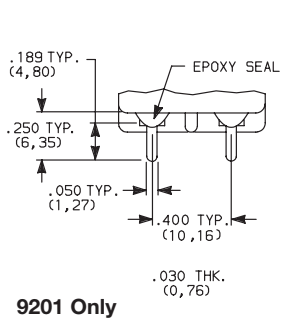


Z SOLDER LUG

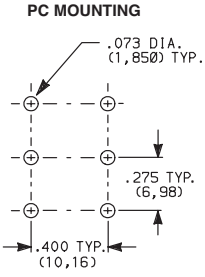


9201 Only

C PC THRU-HOLE

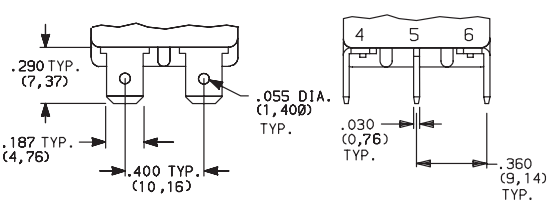


PC MOUNTING



9201 Only

Z4 QUICK CONNECT



9201 and 9221

NOTE: Only termination available with 9221 model. Must be ordered with D seal option. Mating terminal standard Nema .187" quick connect.

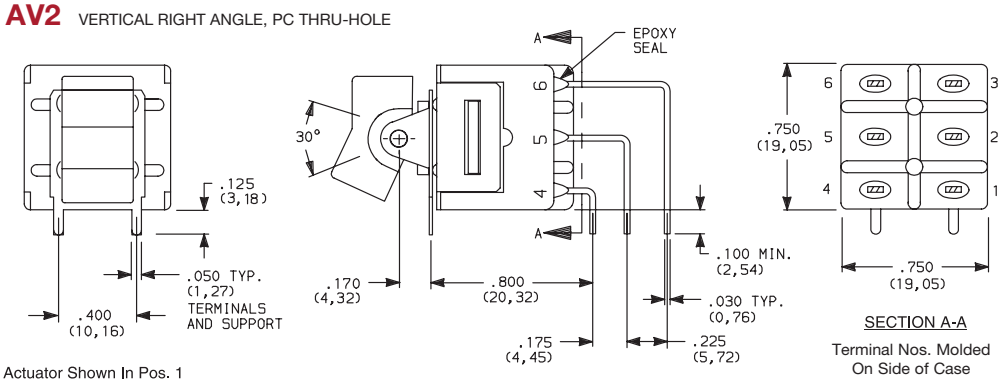
Third Angle Projection

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

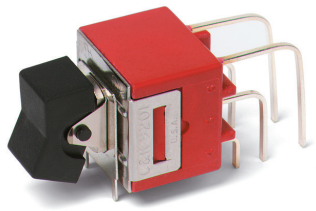
9000 Series
Power Rocker and Lever Handle Switches

TERMINATIONS

AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE

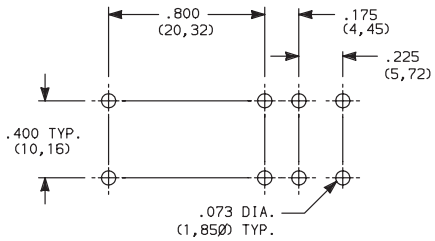


Actuator Shown In Pos. 1



9201J1AV2QE2
Vertical Actuation
DPDT

PC MOUNTING



9201 Only

NOTE: Terminal bend radii and lead-in manufacturing option.
Terminal spacing greater than 3mm at all points.

CONTACT MATERIAL

OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	9201	SILVER [1,2]	SILVER OR TIN [2,5]	GP (general purpose) 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 AMPS 30 VDC T85 10,000 cycles
	9221	SILVER CADMIUM OXIDE [3,4,6]	TIN [5]	GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

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

[1] END CONTACTS: Coin silver, silver plated.
[2] CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
[3] END CONTACTS: Silver cadmium oxide.
[4] CENTER CONTACTS: Copper alloy, silver plated.
[5] Z4 TERMINALS ONLY: Copper alloy, tin plated.
[6] Cadmium used for electrical contacts is acceptable for RoHS.

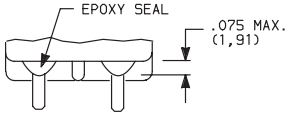
NOTE: Any models supplied with Q contact material is RoHS compliant.

9221 model must be ordered with Z4 terminations and D seal option.

All 9000 Series models meet international dimensional and electrical requirements.

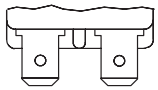
SEAL

E EPOXY SEAL



Not available with 9221 model or Z4 terminations.

D NO EPOXY SEAL



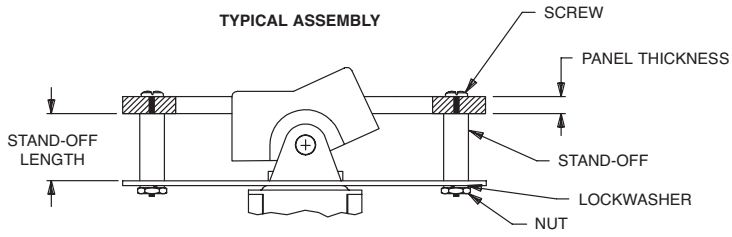
Must be ordered with 9221 model and Z4 termination.

Third Angle Projection

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

AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

J1 Actuator



PART NO.

776A01000 WHITE
776A02263 BLACK
776A03000 RED

Material: Nylon
Finish: Matte

J2 Actuator



PART NO.

760501000 WHITE
760502263 BLACK
760503000 RED

Material: Nylon
Finish: Matte

J3, J37 Actuators



PART NO.

766601000 WHITE
766602263 BLACK
766603000 RED

Material: Nylon
Finish: Matte

Frame for J37 Actuators



PART NO.

445400746 BLACK ENAMEL

Material: Spring Steel

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

Other colors available, consult Customer Service Center.

Third Angle Projection

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