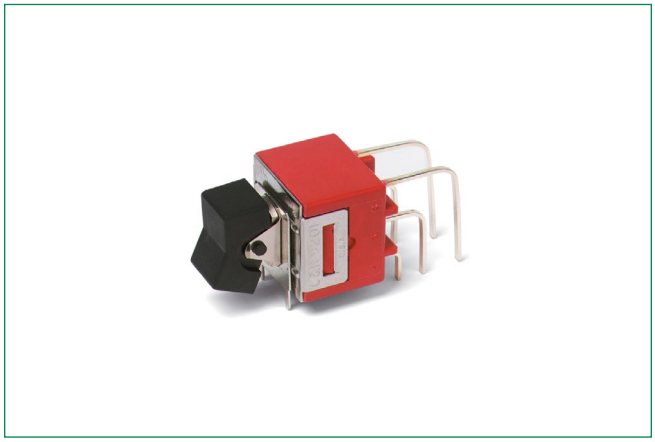
9000 Series
Power Rocker & Lever Handle Switches



Description

Those designing products that require a shut-off switch need to ensure that the switch they incorporate is durable, resistant to the elements and can withstand repeated use. the 9000 series of power rocker and lever handle switches feature thermoset UL 94V-0 housing, rugged construction and a variety of actuator and termination options, making them perfect for all types of small appliances and shut-off switches.

Features & Benefits

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

Applications

- Small equipment
- Shut-off switch

Agency Approvals

Agency	Agency File Number
c UL us	E42363

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 94 V-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.

Notes:
Cadmium used in electrical contacts is acceptable for RoHS.
Any models supplied with Q contact material are RoHS compliant.
Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

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9000 Series
Power Rocker & Lever Handle Switches

Ordering Number

To order, simply select desired option from each category and place in the appropriate box. **For additional options not shown in catalog, consult Customer Service Center.**

9xxx - xxx - xxx - Q - x - x - x

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

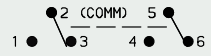
Actuator Color
2: Black
1: White
3: Red

Frame Color
2: Black
NONE: No frame color required

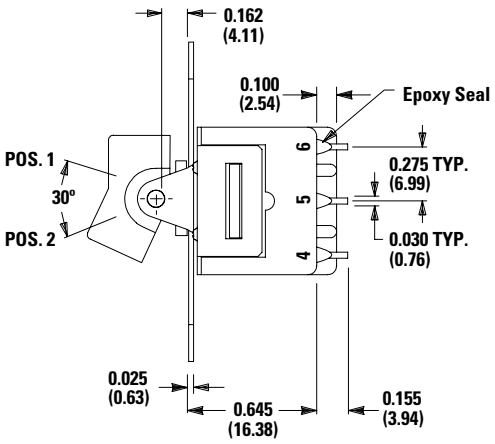
Switch Function

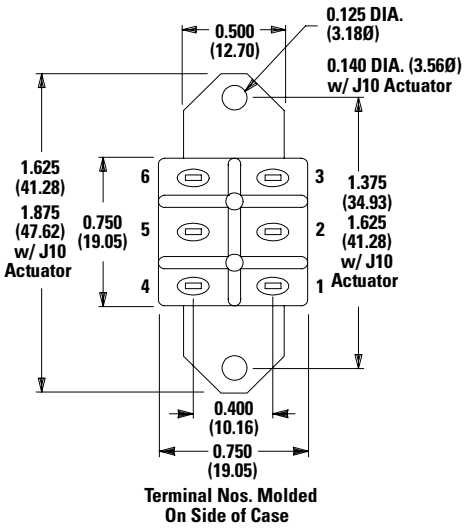
DPDT

No. Poles	Model No.	Rating[1]	Switch Function (C&K marking on opposite side) POS. 1	Switch Function (C&K marking on opposite side) POS. 3	Connected Terminals POS. 1	Connected Terminals POS. 3	Schematic
DP	9201	6 Amps	ON	ON	2-3,5-6	2-1,5-4	DPDT
DP	9221	10 Amps	ON	ON	2-3,5-6	2-1,5-4	



Dimensions inches (mm)





Part number shown: 9201J1ZQE2

Notes: All 9000 Series models meet international dimensional and electrical requirements.
1. See Contact Material , page 6, for complete ratings.
9221 model must be ordered with Z4 terminations and D seal option.

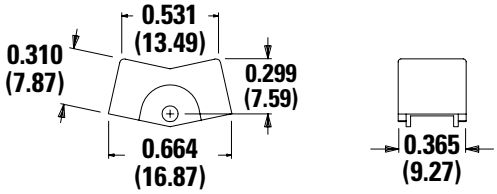
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9000 Series
Power Rocker & Lever Handle Switches

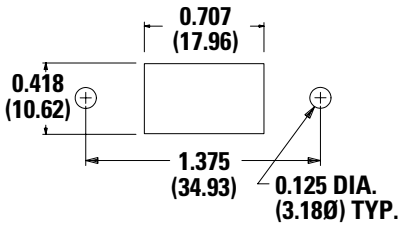
Actuator-Panel Mount inches (mm)

J1 Rocker



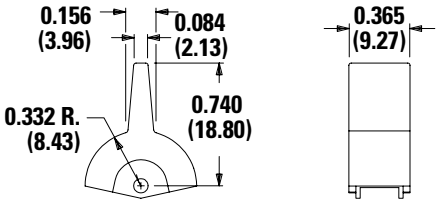


Panel Mounting



J2 Lever





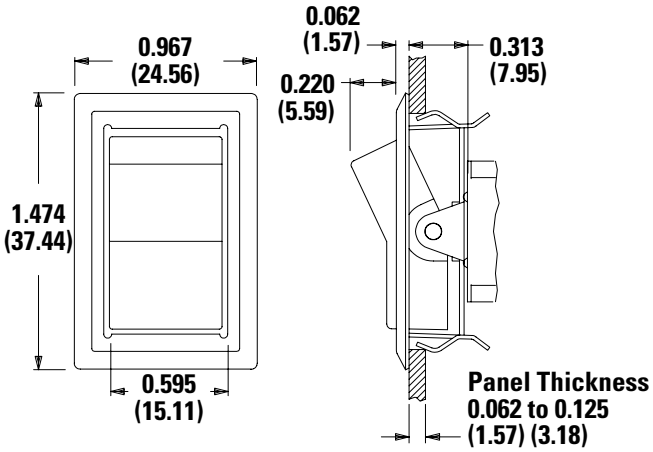
Option Code	Actuator Color
2	Black
1	White
3	Red

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

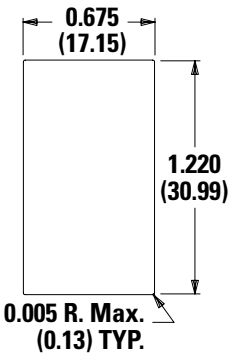
Notes: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page 7. Hardware available separately, see Technical Data section of this catalog.

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J3 Rocker



Panel Mounting



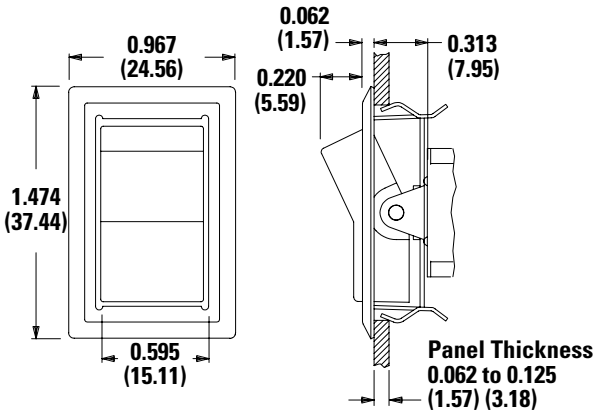


Option Code	Actuator Color
2	Black
1	White
3	Red

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

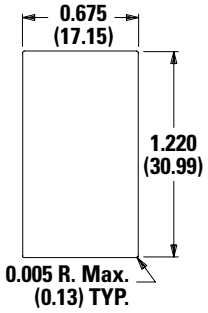
Notes: Actuators available separately, see page 7. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

Actuator-Rear Mount inches (mm)
J37 Rocker with Frame



Not available with AV2 termination.

Panel Mounting





Option Code	Actuator Color
2	Black
1	White
3	Red

Option Code	Frame Color
2	Black

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

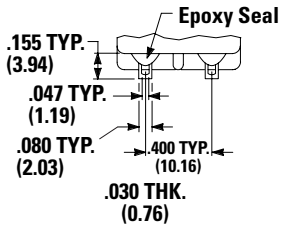
Notes: Actuators & frames available separately, see page 7. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

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9000 Series
Power Rocker & Lever Handle Switches

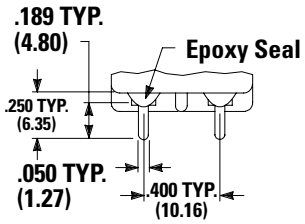
Terminations inches (mm)

Z Solder Lug



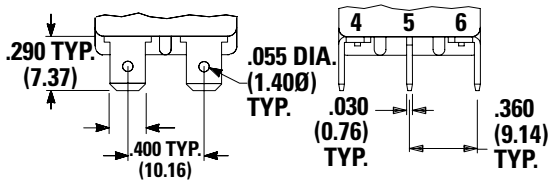
9201 Only

C PC Thru-hole



.030 THK.
(0.76)

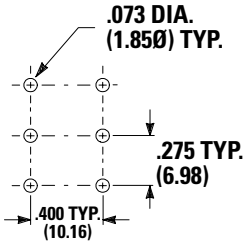
Z4 Quick Connect



9201 and 9221

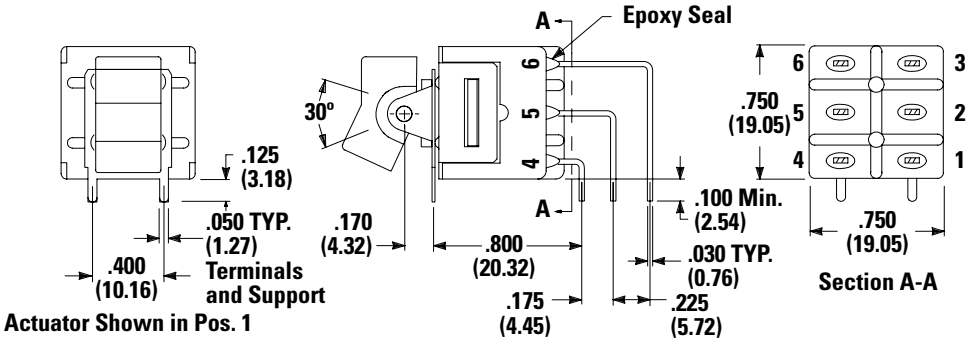
Notes: Only termination available with 9221 model. Must be ordered with D seal option. Mating terminal standard Nema 0.187" quick connect.

PC Mounting



9201 Only

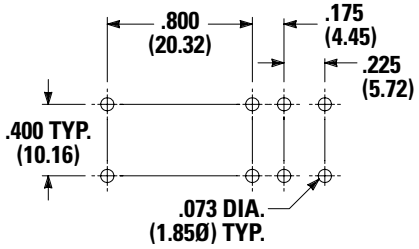
AV2 Vertical Right Angle, PC Thru-hole
9201J1AV2QE2 Vertical Actuation DPDT



9201 Only

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

PC Mounting



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Contact Material

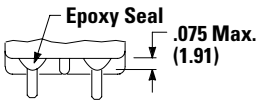
Option Code	Model	Contact Material	Terminal Plating	Ratings
Q	9201	Silver[1,2]	Silver or Tin[2,5]	GP (general purpose) 6 amps 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 amps 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 amps 30 VDC T85 10,000 cycles
	9221	Silver Cadmium Oxide[3,4,6]	Tin[5]	GP (general purpose) 10 amps 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 5 amps 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 amps 30 VDC T85 10,000 cycles

Notes: 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**.**

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. c UL us

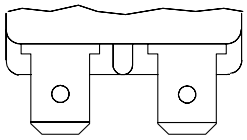
Seal inches (mm)

E Epoxy Seal



Not available with 9221 model or Z4 terminations.

D No Epoxy Seal



Must be ordered with 9221 model and Z4 termination.

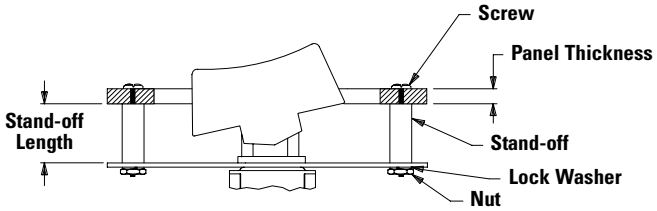
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9000 Series
Power Rocker & Lever Handle Switches

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.

Typical Assembly



J1 & J2 actuators

Part No.	Panel Thk.	Standoff Length
761101000	1/16 IN. (1.59)	0.295 (7.49)
761102000	3/32 IN. (2.38)	0.264 (6.71)
761103000	1/8 IN. (3.18)	0.233 (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 Actuator



Part No.
445400746 Black Enamel
Material: Spring Steel

Notes: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.

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