

#### Features/Benefits

- Power ratings up to 10 AMPS
- Double pole models
- Locking lever options available
- Wide variety of actuator styles
- RoHS compliant and compatible

#### Typical Applications

- Shut-off switch
- Small equipment

### Specifications

CONTACT RATING:

9201 Model

GP (general purpose)

6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3)

UL 61058-1

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  $\Omega$  typ. initial @

2-4 V DC, 100 mA.

INSULATION RESISTANCE:  $10^9 \Omega$  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: Brass, chrome plated. BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated. 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 & Locking ring: Brass, nickel plated.

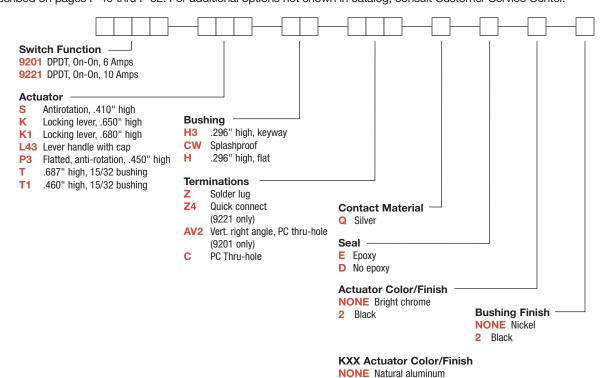
Lockwasher: Steel, nickel plated.

NOTE: Any models supplied with Q contact material are RoHS compliant and compatible.

**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 F-49 thru F-52. For additional options not shown in catalog, consult Customer Service Center.





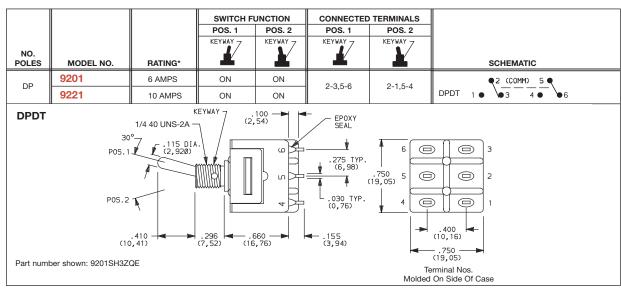
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Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

2 Black anodized aluminum



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<sup>\*</sup> See CONTACT MATERIAL, page F-52, for complete ratings.

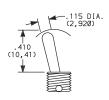


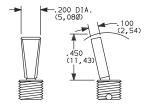
9221 model must be ordered with Z4 terminations and D seal option.

	ACTUATOR FINISI
ACTUATOR	
	ACTUATOR

ANTIROTATION, .410" HIGH





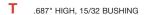


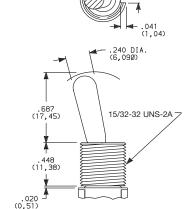
OPTION CODE	ACTUATOR FINISH
NONE	NATURAL ALUMINUM—With Nickel Plated Bushing
2	BLACK

**NOTE:** Black hardware is supplied when either black actuators or bushings are specified. All hardware is available separately, see Section N.

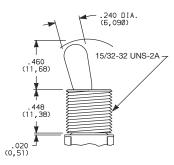
Antirotation is standard on all actuators, provides 'anti-push-in' feature on actuator.

Dress nut part number: 709901201 supplied standard with P3 actuator.





.460" HIGH, 15/32 BUSHING



OPTION CODE	ACTUATOR FINISH	
NONE	BRIGHT CHROME—With Nickel Plated Bushing	
2	BLACK	

NOTE: Bushing option code not required for T & T1 actuators unless CW splashproof bushing ordered.

Black hardware is supplied when either black actuators or bushings are specified. All hardware is available separately, see Section N.

Antirotation is standard on all actuators except T & T1, provides 'anti-push-in' feature on actuator.



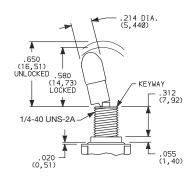
Toggle

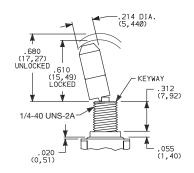


## ACTUATOR ACTUATOR ACTUATOR FINISH

K LOCKING LEVER, .650" HIGH, THREADED

K1 LOCKING LEVER, .680" HIGH, THREADED





Locking Positions



2 Position Lock

**NOTE:** To prevent accidental actuation, toggles must be lifted before being actuated. When released, toggles again lock in place. Bushing option code not required. Overtightening mounting nut may cause actuator to bind.

OPTION CODE	ACTUATOR CAP FINISH	
NONE	NATURAL ALUMINUM-With Nickle Plated Bushing	
2	BLACK ANODIZED ALUMINUM	

L40 LEVER HANDLE WITHOUT CAP



.551 (14,00) -.433 (11,00) (1,98) .897 (22,78)

PLASTIC LEVER HANDLE WITH

ANTIROTATION AND CAP, P/N 4812

OPTION CODE	ACTUATOR CAP COLOR	
2	BLACK	
NONE	No Actuator Color (L40 option)	

Other colors available, consult Customer Service Center.

No color choice required.

NOTE: Lever handle actuator L43 supplied, but not installed. For interchangeability, order L40 actuator option and order lever handles separately, see page F-52.

# Antirotation is standard on all actuators, provides 'anti-push-in' feature. BUSHING BUSHING

Finish: Matte

.296" HIGH, THREADED, FLAT

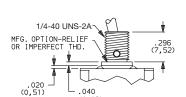
H3 .296" HIGH, THREADED, KEYWAY

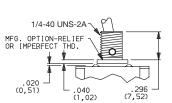
.314 DIA. (7,980)

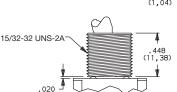
**L43** 

.075

SPLASHPROOF, 15/32 BUSHING



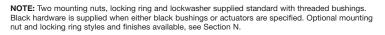




BUSHING FINISH	
NICKEL	
BLACK	

Will withstand 12 in./lbs. of torque with no distortion.

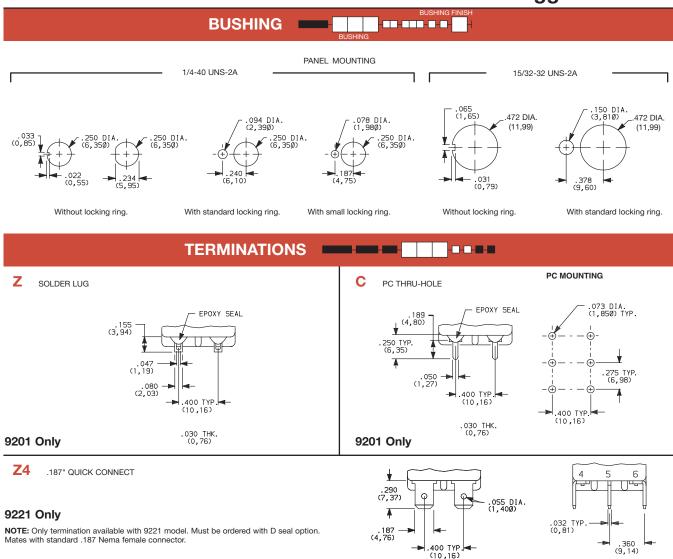
For T & T1 actuators only.



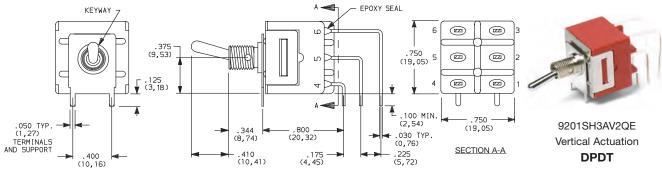
Internal actuator seal standard. External bushing seal available separately from APM Hexseal, part # MFS-60064.







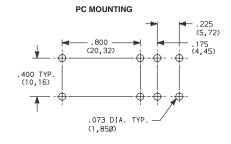
#### VERTICAL RIGHT ANGLE, PC THRU-HOLE



Actuator Shown in Pos. 3

#### 9201 Only

NOTE: Terminal bend radii and lead-in manufacturing option.



Terminal Nos



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#### **CONTACT MATERIAL**



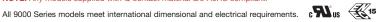
OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
	9201	SILVER 1,2	SILVER OR TIN <sup>2,5</sup>	GP (general purpose) 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 AMPS 30 VDC T85 10,000 cycles
Q	9221	SILVER CADMIUM OXIDE 3,4,6	TIN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

<sup>\*</sup> Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> END CONTACTS: Coin silver, silver plated.
- $^{2}$  CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- <sup>3</sup> END CONTACTS: Silver cadmium oxide.
- $^{\rm 4}$  CENTER CONTACTS: Copper alloy, silver plated.
- <sup>5</sup> Z4 TERMINALS ONLY: Copper alloy, matte-tin plated.

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

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

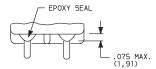




<sup>6</sup> Cadmium in electrical switch contacts is exempt from RoHS.

**SEAL** 

E EPOXY SEAL



NO EPOXY SEAL



Not available with 9221 model or Z4 terminations

Must be ordered with 9221 model and Z4 termination.

#### **AVAILABLE HARDWARE**

Cap
Compatible with S actuator



PART NO.

896801000 WHITE 896802000 BLACK 896803000 RED

Material: Polyethylene Finish: Matte

Cap
Compatible with S actuator



PART NO.

706201000 WHITE 706202000 BLACK 706203000 RED

Material: Vinyl Finish: Matte

L43 Actuator



PART NO.

481202000 BLACK 481203000 RED

Finish: Matte

Material: Nylon

NOTE: Additional nuts, locking rings and lockwashers available separately, see Section N.

Other colors available, consult Customer Service Center.

#### 759D02000 Sealing Boot



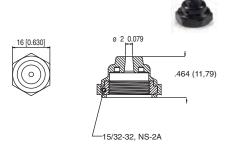
NOTE: For use with S actuator style when combined with H3 and H bushings

#### 703D02000 Sealing Boot



NOTE: For use with T style actuator

### 704D02000 Sealing Boot



NOTE: For use with T style actuator



Third Angle Projection

