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: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. 9221 Model: 10 AMPS @ 125 V AC or 28 V DC; 5 AMPS @ 250 V AC.

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: $10^9 \Omega$ 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).

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.

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.

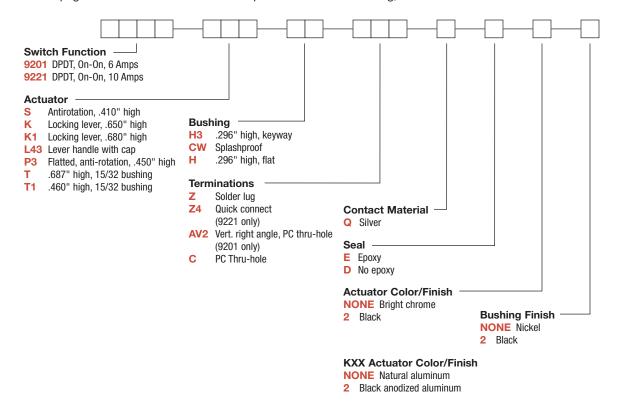
TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking ring: Brass, nickel plated.

Lockwasher: Steel, nickel plated.

Build-A-Switch

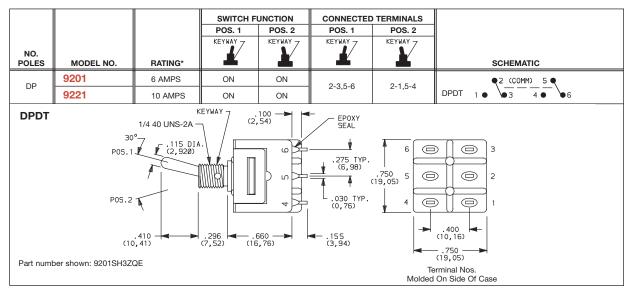
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages F-49 thru F-53. For additional options not shown in catalog, consult Customer Service Center.





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

SWITCH FUNCTION -----



^{*} See CONTACT MATERIAL, page F-52, for complete ratings.

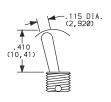
All 9000 Series models meet international dimensional and electrical requirements.

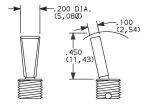
9221 model must be ordered with Z4 terminations and D seal option.

	ACTUATOR F	
ACTUATOR		
	ACTUATOR	

ANTIROTATION, .410" HIGH

P3 FLATTED, ANTIROTATION, .450" HIGH





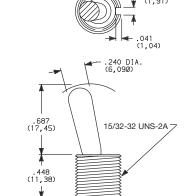
OPTION CODE	ACTUATOR FINISH
NONE	NATURAL ALUMINUM—With Nickel Plated Bushing
2	BLACK

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

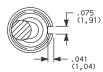
Antirotation is standard on all actuators, provides 'anti-push-in' feature

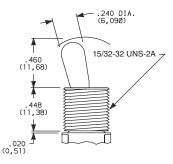
Dress nut part number: 709901201 supplied standard with P3 actuator.

.687" HIGH, 15/32 BUSHING



T1	.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.

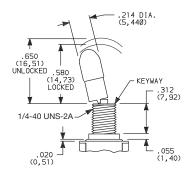


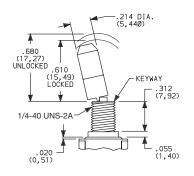
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



LOCKING LEVER, .650" HIGH, THREADED

K1 LOCKING LEVER, .680" HIGH, THREADED





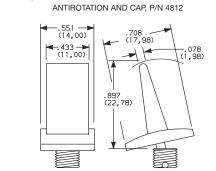


NOTE: To prevent accidental actuation, toggles must be lifted before being actuated. When released, toggles again lock in place. Bushing option code not required. Overtightening mounting nut may cause actuator to bind.

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

L40 LEVER HANDLE WITHOUT CAP





PLASTIC LEVER HANDLE WITH

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-53.

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

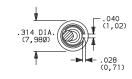
H3 .296" HIGH, THREADED, KEYWAY

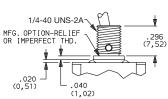
.296" HIGH, THREADED, FLAT

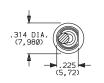
Finish: Matte

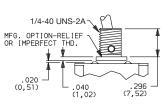
L43

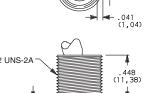
SPLASHPROOF, 15/32 BUSHING

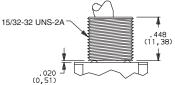












OPTION CODE	BUSHING FINISH	
NONE	NICKEL	
2	BLACK	

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

Internal actuator seal standard. External

NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Black hardware is supplied when either black bushings or actuators are specified. Optional mounting nut and locking ring styles and finishes available, see Section N.

bushing seal available separately from APM Hexseal, part # MFS-60064.

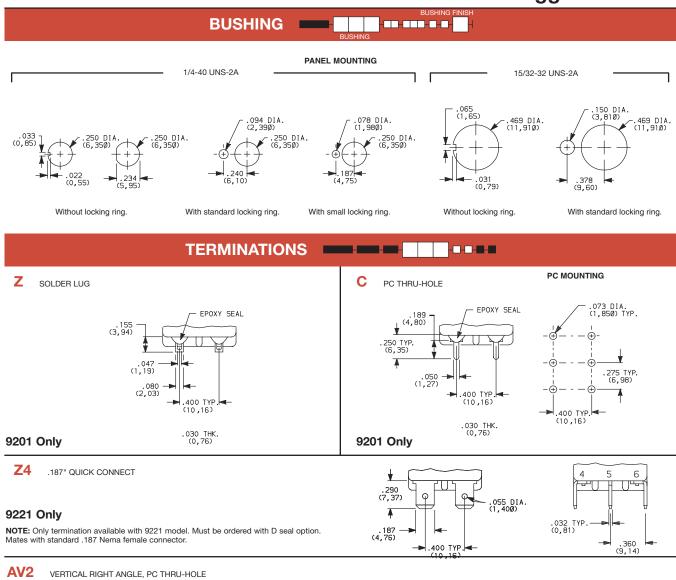
For T & T1 actuators only.

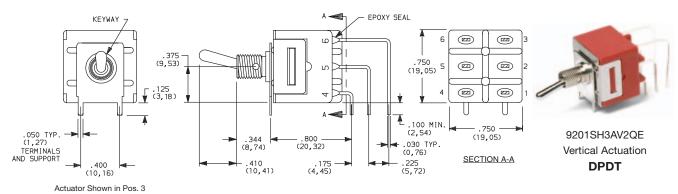




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

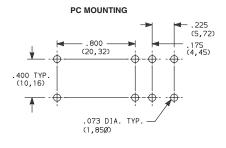






9201 Only

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



Terminal Nos. For Reference Only



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



F

Toggle

CONTACT MATERIAL

OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
	9201	SILVER 1,2	SILVER OR TIN ^{2,5}		6 AMPS @120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.
Q	9221	SILVER CADMIUM OXIDE 3,4,6	R CADMIUM OXIDE 3,4,6 TIN 5		10 AMPS @125 V AC OR 28 V DC; 5 AMPS @ 250 V AC.

^{*} 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.
- $^{\rm 4}$ CENTER CONTACTS: Copper alloy, silver plated.
- ⁵ Z4 TERMINALS ONLY: Copper alloy, matte-tin plated.
- ⁶ Cadmium in electrical switch contacts is exempt from RoHS.

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

All 9000 Series models meet international dimensional and electrical requirements.

10 40 9221 model must be ordered with Z4 terminations and D seal option.



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

Material: Nylon Finish: Matte **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

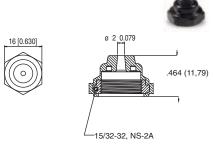
703D02000 Sealing Boot



F-52

NOTE: For use with T style actuator

704D02000 Sealing Boot



NOTE: For use with T style actuator



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



