



Our J4 Series ball switches were developed for some of the most demanding applications, where traditional sealed ball switches failed. We've applied the same patented ball carrier design to ultra high-performance plunger switches, which offer flexibility in mounting and actuator configuration.

Stainless steel construction

Completely submersible (meets IP68)

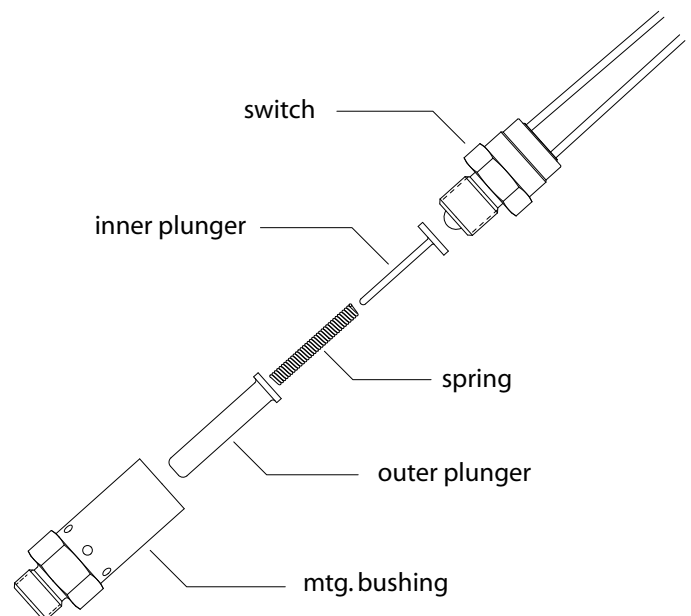
Patented ball-carrier design

Ultra high-temperature capability

Normally open and normally closed versions available

Variable Parameters

- plunger length
- mounting thread
- terminations
- actuation force
- travel parameters
- sealed or vented extension



J4 Series General Specifications

(for all J4 models unless otherwise noted or not applicable)

Electrical Rating:	5A @ 28 VDC
Contact Configuration:	SPST
Electromechanical	
Endurance:	100,000 cycles @ 5A/28VDC*
Temperature Resistance:	-50°F to 185°F (-45°C to 85°C) (up to 302°F (150°C) available)
Travel Parameters	
Pre-travel:	.004" (.102mm) min., .032" (.813mm) max.
Over-travel:	to top of bushing
Standard Body Material	
J4001, J4002:	plated steel
J4201, J4202:	brass
J4301:	stainless steel
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Standard Wire:	16 AWG GXL

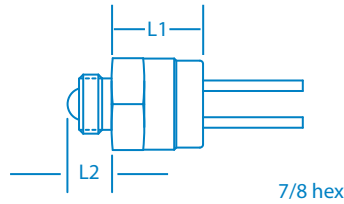
Applications

- hatch / door interlock switch
(amphibious military vehicles)
- valve position sensing
(diesel turbochargers)
- neutral safety switch
- reverse safety
(back-up alarm)
- battery interlock
- operator presence
- hydraulic valve handle position sensing

*other electromechanical ratings available - please contact the factory.

The J4 Family of Designs

Switches



J4 Standard Design

Part Numbers: J4001 (NO), J4002 (NC)

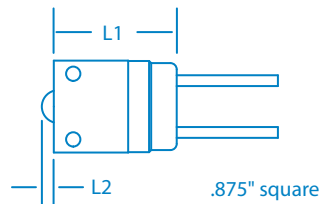
Dimensions

J4001: L1 = .870" / 22.10mm, L2 = .419" / 10.64mm

J4002: L1 = .830" / 21.08mm, L2 = .424" / 10.77mm

Mounting: 9/16-18UNF-2A

Total Actuator Travel: .110" / 2.79mm



J4 Square Body Design

Part Numbers: J4201 (NO), J4202 (NC)

Dimensions

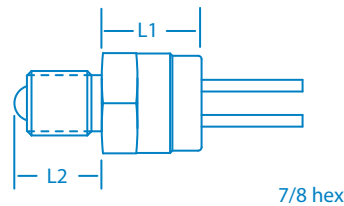
J4201: L1 = 1.170" / 29.72mm, L2 = .114" / 2.90mm

J4202: L1 = 1.120" / 28.45mm, L2 = .108" / 2.74mm

Mounting: .177" / 4.50mm) dia. through-holes,

.625" / 15.87mm apart

Total Actuator Travel: .108" / 2.74mm) NC; .114" / 2.90mm NO



J4 Extended-Thread Design

Part Numbers: J4301 (NO), J4302 (NC)

Dimensions

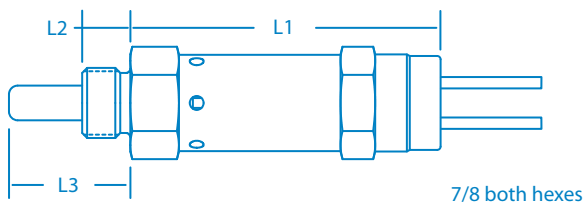
J4301: L1 = .870" / 22.10mm, L2 = .762" / 19.35mm

J4302: L1 = TBD, L2 = TBD

Mounting: 5/8-18UNF-2A

Total Actuator Travel: .109" / 2.77mm

Switches With Attachments - J4401



J4 Plunger Design

Dimensions

L1 = 2.140" / 54.36mm

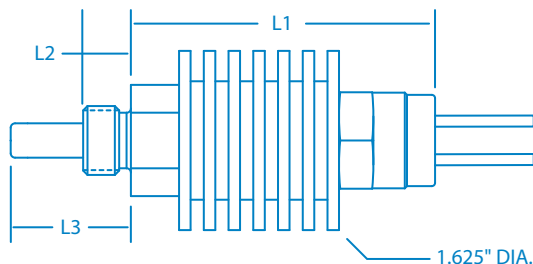
L2 = .433" / 11mm

L3 = 1.090" / 27.69mm

Mounting: M16 x 1.5

Travel Parameters: please contact factory

Total Actuator Travel: .657" / 16.69mm (approx.)



J4 High Temperature Design

Dimensions

L1 = 2.760" / 70.10mm

L2 = .433" / 11mm

L3 = 1.090" / 27.69mm

Mounting: 5/8-18UNF-2A

Travel Parameters: please contact factory

Total Actuator Travel: .657" / 16.69mm (approx.)

Operational Temperature: up to 302F (150C)

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