

MODEL JS-10/JS-30 SERIES MAGNETIC LEVEL SWITCH FOR MAGNETIC LIQUID LEVEL INDICATORS



DESCRIPTION

The Jogler JS-10/JS-30 Series switches are magnetically actuated point level switches. The JS-10 (1 amp) and JS-30 (3 amp) can be configured as a SPDT or DPDT and are available in a “ying lead” configuration (no enclosure), an epoxy-coated Aluminum enclosure, or a 316 stainless steel enclosure. The JS-10 is a low power switch best suited for DCS or PLC inputs. The JS-30 is a high power switch used to actuate larger relays and solenoid valves. The JS-10/JS-30 switches are non-intrusive level switches that require no contact with the process*

uid and have no wetted parts.

**Note: DPDT configuration consists of 2 SPDT switches.*

TECHNOLOGY

The JS-10/JS-30 Series contain 1 or 2 form C bi-stable latching switches. The switches consist of a magnetically actuated reed switch and bias magnet. The reed switch contains precious metal contacts hermetically sealed in an inert gas atmosphere sealed with a glass-to-metal bond. The bias magnet holds the switch in its last state, allowing it to maintain its state even in high-vibration environments. The hermetically sealed contacts ensure safe operation even in hazardous environments.

STANDARD FEATURES

- *Magnetically actuated, hermetically sealed, bi-stable latching switch*
- *No process piping or valves required*
- *Easy mounting with infinitely adjustable setpoint*
- *Hermetically sealed magnetic reed switch*
- *Latching bias magnet maintains state in high-vibration environments*
- *Available with ying leads (no enclosure), Epoxy-coated Aluminum enclosure, or a Stainless Steel Enclosure*
- *Extended operation in extreme environments*

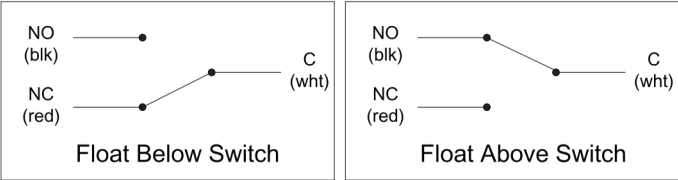


SPECIFICATIONS

-Switch Type		Magnetically actuated, hermetically sealed bi-stable latching switch	
-Contact Material	JS-10	Rhodium	
	JS-30	Tungsten	
-Max Deadband		0.6" (differential between 2 SPDT switches is 1/8")	
-Contact Ratings	JS-10	150VDC, 1A, 25W;	130VAC, 0.2A max / 230VAC, 0.1A max
	JS-30	150VDC, 3A, 75W;	120VAC, 0.625A max / 25VAC, 3A max / 240VAC, 0.3125A max
-Ambient Temperature Rating*		-40°F(-40°C) to 220°F(105°C)	
-Min. Process Temperature*		-40°F(-40°C) *Contact factory for colder applications to -320°F process temps	
-Max. Process Temperature*		390°F(200°C) *For process temperatures to 890°F see mounting options below	
-Customer Connection		3/4" FNPT conduit and 18AWG wiring harness	
-Enclosure Options		Epoxy coated Aluminum, 316 Stainless Steel	
-Mounting Options		For process temperatures up to 390°F - Mounting style 0	
		For process temperatures up to 690°F - Mounting style H	
		For process temperatures up to 890°F - Mounting style R	
-Hazardous Area Ratings		XP Class I / Div 1 / Groups BCD	
		NI Class I / Div 2 / Groups ABCD	
		DIP Class II,III / Div 1 / Groups EFG	
		NEMA 4X	

*Note: Ambient and operating temps are for enclosure styles 0 and S only. Subtract 40°C from max temps for Aluminum enclosure

WIRING DIAGRAM



ORDERING INFORMATION

Model Number: JS-ab-c-d

- a

Current Rating

11 amp

33 amp
- b

Number of Reed Switches

11 switch (SPDT configuration)

22 switches (DPDT configuration)
- c

Enclosure

0Flying lead (no enclosure)

AEpoxy-coated Aluminum Explosion-proof Enclosure

SSStainless Steel Explosion-proof Enclosure
- d

Mounting

0Standard clamp mounting to magnetic level gauge

HStandard clamp mounting to magnetic level gauge with high-temperature insulation pad

RRod mounting to magnetic level gauge with high-temperature insulation blanket

