

FEATURES

- Magnetic Snap-Action
- All 316SS Wetted Parts
- SPDT or DPDT Contacts
- Integral Conduit Box
- Magnetic Latching
- CSA Certified, Class I, Grp. C&D, NEMA 4X
- Single Seal Per ISA 12.27.07-2011

TYPICAL APPLICATIONS

Petroleum Processing

Fuels, lubricating oils, hydraulic fluids, separators, treaters, crude oil, fuel-water interfaces.

Chemical Processing

Acids, alkalis, ammonia, paint, lacquer, peroxides, alcohols, printing inks, freon.

Food Processing

Beverages, fruit juices, cooking oils.

Pharmaceutical and Cosmetic

Liquids, emulsions, lotions, solutions.

Marine Operations

Fuel oil, hydraulic fluid, bilge level alarms, sea water, coolant, condensate levels, cargo levels.

Reactor Operation

Level control, alarm signaling.

Cryogenic Liquids

Liquid methane, nitrogen, carbon dioxide, oxygen.

Water Industry

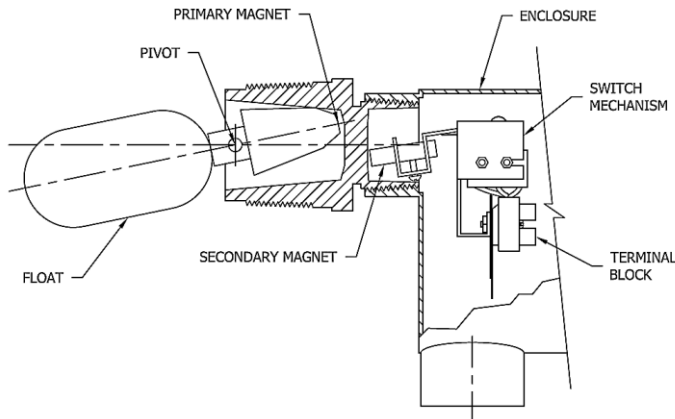
Flood control, reservoir levels.

General

Leak detection, overflow alarm, low level alarm in evaporators.

OPERATION

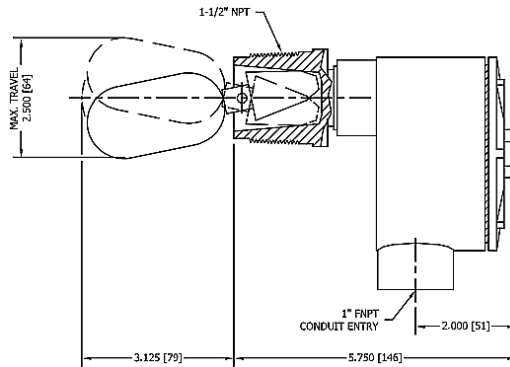
Operation is achieved using the time proven principle of repelling magnetic forces.



One permanent magnet, the primary magnet, forms part of a float assembly which rises and falls with changing liquid level. The secondary magnet is positioned within the enclosure so that the adjacent poles of the two magnets repel each other through a non-magnetic, stainless steel barrier. A change in liquid level moves the float through its permissible range of travel causing the float magnet to pivot and repel the switch magnet. The resulting snap action of the repelling magnets actuates the switch.

JMLS Horizontal Mount Magnet Level Switch

DIMENSIONS AND SPECIFICATIONS – TYPICAL JMLS2100



PRESSURE RATING	MIN. S.G.	AMBIENT MAX. TEMP	DIFFERENTIAL @ MIN. S.G.	CERTIFICATION
1500 PSIG	0.50	122°F (50°C)	Nominal 1"	CSA CLASS I, GROUP C & D, NEMA 4X

MODEL SELECTION GUIDE

MAGNETIC LEVEL SWITCH				
JMLS	CODE	BODY MATERIAL	TRIM MATERIAL	
	2	T-316 SST	T-316 SST	
		CODE	SWITCH FORM AND FUNCTION	MAX. AMBIENT TEMP
		1	SPDT STANDARD SWITCH	122°F (50°C)
		2	DPDT STANDARD SWITCH	122°F (50°C)
		3	SPDT HIGH AMP RATING	122°F (50°C)
		4	DPDT HIGH AMP RATING	122°F (50°C)
		7	SPDT HERMETICALLY SEALED	122°F (50°C)
		8	DPDT HERMETICALLY SEALED	122°F (50°C)
		9	SPDT GOLD PLATED	122°F (50°C)
		0	DPDT GOLD PLATED	122°F (50°C)
			MAX. RECOMMENDED PROCESS TEMP	SWITCH RATING
			705°F (375°C)	5A @ 120/240 VAC
				3(5)A @ 24 VDC ¹
				11A @ 120/240 VAC
				1(2) A @ 24 VDC ¹
				2A @ 120 VAC (N.R. @ 240 VAC)
				3(5)A @ 24 VDC ¹
				1A @ 120 VAC 0.2A @ 240 VAC
				0.5(1) @ 24 VDC
		CONNECTION	PRESSURE RATING	CODE
		1 1/2" NPT	1500 PSIG @ 100°F	00
		2" NPT	1500 PSIG @ 100°F	70
				CARBON STEEL
				316SS
		2 1/2" 150# RF THREADED	285 PSIG @ 100°F	11
		2 1/2" 300# RF THREADED	740 PSIG @ 100°F	21
		2 1/2" 600# RF THREADED	1480 PSIG @ 100°F	31
		3" 150# RF THREADED	285 PSIG @ 100°F	41
		3" 300# RF THREADED	740 PSIG @ 100°F	51
		3" 600# RF THREADED	1480 PSIG @ 100°F	61
			CODE	MIN. SG SS FLOAT
			FExxx²	MIN. SG POLY FLOAT
			FLOAT EXTENSION (INCHES)	VARIABLES
			FE 0800	0.89
			FE 0600	0.85
			FE 0400	0.79
			FE 0300	0.73
			P	MIN SG = 0.40 (NO FLOAT EXT); MAX PROCESS TEMP = 250°F
			BW	BACK WELDED FLANGE
JMLS	2	1	00	TYPICAL MODEL NUMBER

¹DC Rating = Inductive Listed before Resistive EX: 3(5) = 3A Inductive or 5A Resistive @ 24 VDC

²NOTE: EX, FE0225 = 2-1/4" Extension



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