



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

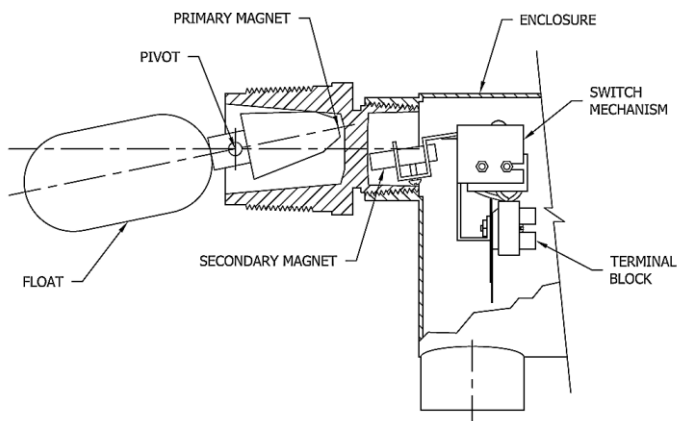
Flood control, reservoir levels.

General

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

OPERATION

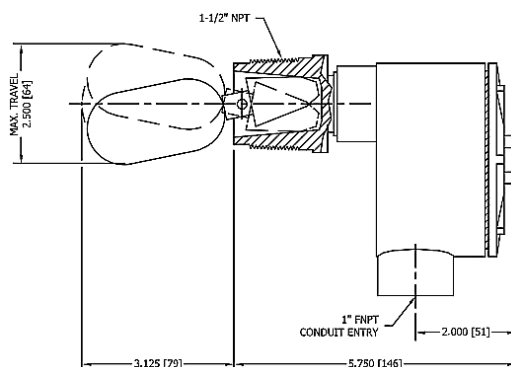
Operation is achieved using the time proven principle of repelling magnetic forces.



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	MAX. RECOMMENDED PROCESS TEMP
		1	SPDT STANDARD SWITCH	122°F (50°C)	705°F (375°C)
		2	DPDT STANDARD SWITCH	122°F (50°C)	705°F (375°C)
		3	SPDT HIGH AMP RATING	122°F (50°C)	705°F (375°C)
		4	DPDT HIGH AMP RATING	122°F (50°C)	705°F (375°C)
		7	SPDT HERMETICALLY SEALED	122°F (50°C)	705°F (375°C)
		8	DPDT HERMETICALLY SEALED	122°F (50°C)	705°F (375°C)
		9	SPDT GOLD PLATED	122°F (50°C)	705°F (375°C)
		0	DPDT GOLD PLATED	122°F (50°C)	705°F (375°C)
		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 13
		2 1/2" 300# RF THREADED		740 PSIG @ 100°F	21 23
		2 1/2" 600# RF THREADED		1480 PSIG @ 100°F	31 33
		3" 150# RF THREADED		285 PSIG @ 100°F	41 43
		3" 300# RF THREADED		740 PSIG @ 100°F	51 53
		3" 600# RF THREADED		1480 PSIG @ 100°F	61 63
		CODE		MIN. SG SS FLOAT	MIN. SG POLY FLOAT
		FExxx ²	FLOAT EXTENSION (INCHES)	VARIABLES	VARIABLES
		FE 0800	FLOAT EXTENSION 8.00"	0.89	0.82
		FE 0600	FLOAT EXTENSION 6.00"	0.85	0.78
		FE 0400	FLOAT EXTENSION 4.00"	0.79	0.73
		FE 0300	FLOAT EXTENSION 3.00"	0.73	0.69
		P	POLYPROPYLENE FLOAT	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

JERGUSON®