

JERGUSON®

A PRODUCT OF CLARK-RELIANCE
Specialists in Liquid Level Indication

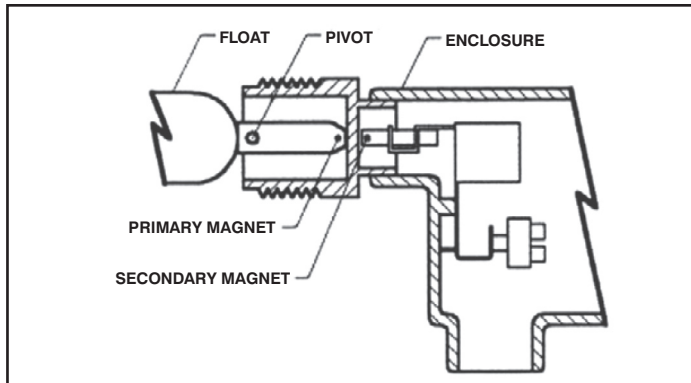
JMLS Horizontal Mount Magnetic Level Switch

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OPERATION

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



One permanent magnet forms part of a float assembly which rises and falls with changing liquid level. A second permanent magnet is positioned within the switch head so that the adjacent poles of the two magnets repel each other through a non-magnetic diaphragm. 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 magnet actuates the switch.

FEATURES

- Magnetic Snap-Action
- All SST Wetted Parts
- SPDT 5A Contacts
- Integral Conduit Box
- Magnetic Latching
- Class I, Div. 1, Grp. C&D Enclosure

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.

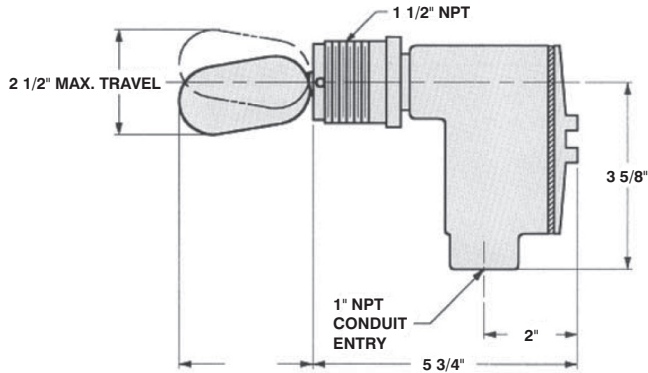
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JMLS Horizontal Mount Magnet Level Switch

DIMENSIONS AND SPECIFICATIONS



TYPICAL MLS1100

PRESSURE RATING	MIN. S.G.	AMBIENT MAX. TEMP	DIFFERENTIAL @ MIN. S.G.	ENCLOSURE RATING	ELECTRICAL COMPONENTS
1500 PSIG	0.50	250°F/139°C	Nominal 1"	CL I Grp. C & D	U.L. & CSA

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. TEMP	SWITCH RATING	
		1	SPDT Standard Switch	450°F	5A @ 120 VAC	
		2	DPDT Standard Switch	450°F	5A @ 120 VAC	
		3	SPDT High Amp Rating	250°F	11A @ 120 VAC	
		4	DPDT High Amp Rating	250°F	11A @ 120 VAC	
		5	SPDT High Temperature	750°F	5A @ 120 VAC	
		6	DPDT High Temperature	750°F	5A @ 120 VAC	
		7	SPDT Hermetically Sealed	400°F	2A @ 120 VAC	
		8	DPDT Hermetically Sealed	400°F	2A @ 120 VAC	
		CONNECTION	PRESSURE RATING (Carbon Steel)	CODE		
		1 1/2" NPT	1500 PSIG @ 100°F	00		
		2" NPT	1500 PSIG @ 100°F	70		
				CARBON STEEL	304SS	316SS
		2 1/2" 150# RF Threaded	285 PSIG @ 100°F	11	12	13
		2 1/2" 300# RF Threaded	740 PSIG @ 100°F	21	22	23
		2 1/2" 600# RF Threaded	1480 PSIG @ 100°F	31	32	33
		3" 150# RF Threaded	285 PSIG @ 100°F	41	42	43
		3" 300# RF Threaded	740 PSIG @ 100°F	51	52	53
		3" 600# RF Threaded	1480 PSIG @ 100°F	61	62	63
		CODE	OPTIONS			
		FE 0800	Float Extension 8"			
		FE 0600	Float Extension 6"			
		FE 0400	Float Extension 4"			
		FE 0300	Float Extension 3"			
		P	Polypropylene Float			
		BW	Back Welded Flange			
JMLS	2	1	TYPICAL MODEL NUMBER			

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