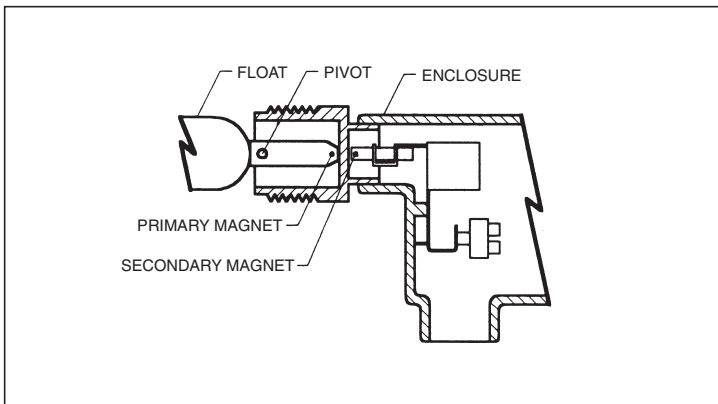


# MLS HORIZONTAL MOUNT MAGNETIC LEVEL SWITCH



## 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 magnets 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
- CSA Approved

## TYPICAL APPLICATIONS

### Petroleum Processing

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

### Chemical Processing

Acids, alkalis, ammonia, paints, 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 signalling.

### Cryogenic Liquids

Liquid methane, nitrogen, carbon dioxide, oxygen.

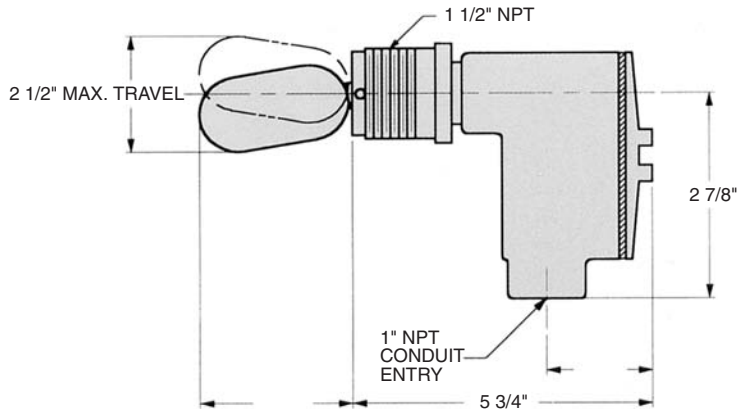
### Water Industry

Flood control, reservoir levels.

### General

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

# 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"	CL1 Grp C & D	U.L. & CSA

## MODEL SELECTION GUIDE

MLS	Magnetic Level Switch				
	Code	Body Material	Trim Material		
	1	T-303 SST	T-316 SST		
	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	
	Code	Connection	Pressure Rating	Min. S.G.	
	0	1 1/2" NPT (Standard Model)	1500 PSIG @ 100°F	0.50	
	1	2 1/2" 150# RF Flange	285 PSIG @ 100°F	0.50	
	2	2 1/2" 300# RF Flange	740 PSIG @ 100°F	0.50	
	3	2 1/2" 600# RF Flange	1480 PSIG @ 100°F	0.50	
	4	3" 150# RF Flange	285 PSIG @ 100°F	0.50	
	5	3" 300# RF Flange	740 PSIG @ 100°F	0.50	
	6	3" 600# RF Flange	1480 PSIG @ 100°F	0.50	
	7	2" NPT	450 PSIG @ 100°F	0.40	
	Code	Flange Material			
	0	All NPT models use this code			
	1	A105 C.S.			
	2	A182 T304 SST			
	3	A182 T316 SST			
MLS	1	1	0	0	<b>TYPICAL MODEL</b>



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