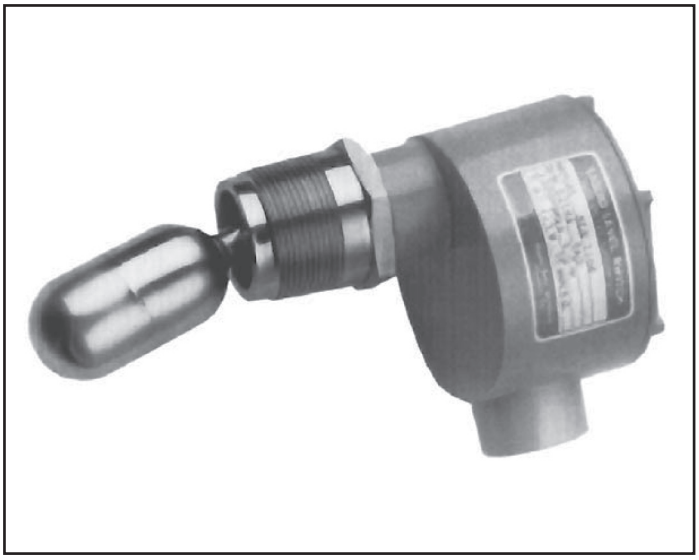
JERGUSON®
A PRODUCT OF CLARK-RELIANCE
Specialists in Liquid Level Indication

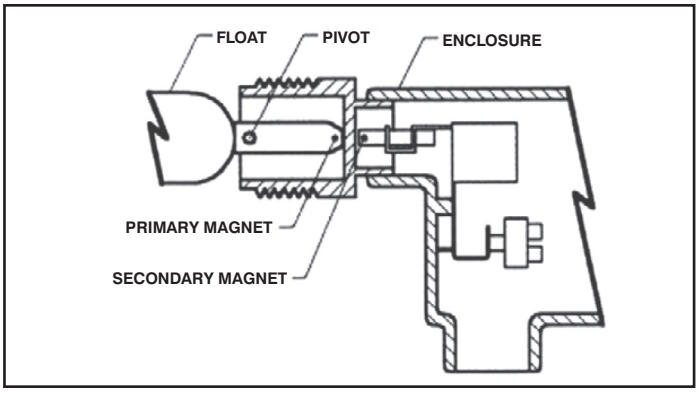
# JMLS
# Horizontal Mount
## Magnetic Level Switch





## 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 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.

### Cryolgenic Liquids
Liquid methane, nitrogen, caron dioxide, oxygen.

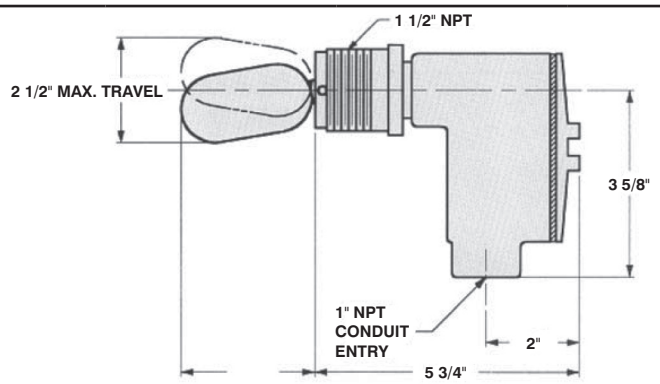
### Water Industry
Flood control, reservior levels.

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


JERGUSON®
A PRODUCT OF CLARK-RELIANCE
16633 Foltz Parkway • Strongsville, OH 44149 USA
Telephone: (440) 572-1500 • Fax: (440) 238-8828
sales@clark-reliance.com • www.clark-reliance.com

# 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**


**REPRESENTED BY: YATES & COMPANY, INC.**
**1 Hollywood Ave, Unit 22 HoHoKus, NJ 07423**
**Tel: 201-345-3101**
**Email: info@yatesco.net**

JERGUSON®
A PRODUCT OF CLARK-RELIANCE
16633 Foltz Parkway • Strongsville, OH 44149 USA
Telephone: (440) 572-1500 • Fax: (440) 238-8828
sales@clark-reliance.com • www.clark-reliance.com