

MLS Series - Liquid Level Switches

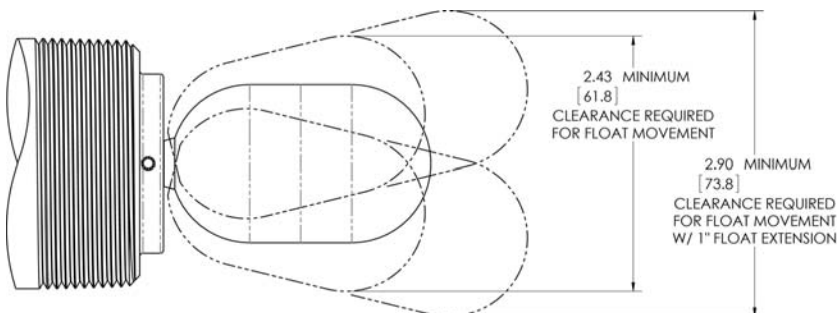
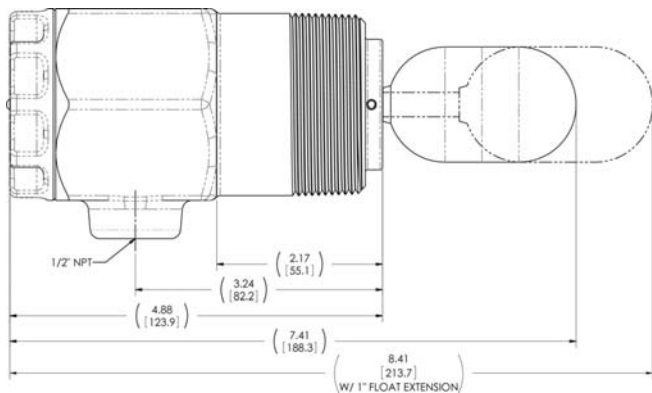


Features

- **Clean Magnet Design** Virtually Eliminates Iron Filing Accumulation Onto the Magnet
- **Seal-Free Construction**
- ANSI/ISA 12.27.01 Compliant (Single Seal)
- Operates in 0.50 Specific Gravity or Heavier Fluids
- Designed for Harsh Gas Compressor Scrubber Applications
- 304 Cast Equivalent SS Body and 304 SS Float
- Rated for 2000 psi (13.8 MPa) [138 bar] Working Pressure
- Trip on Rising and Falling Without Need to Rotate Body
- Electric Model Only Available
- All Models Screw Directly Into the Scrubber or Can be Mounted Via a Murphy External Float Chamber
- CSA C/US Class I, Div. 1, Grp. B, C & D Locations
- NACE MR0175 Compliant
- Canadian Registered (CRN, see below)

MLS Series Liquid Level Switches are float activated to operate an electrical SPDT reed switch for annunciation/pilot signal for indication of high level to an annunciator, controller or PLC. The MLS connects directly into the gas scrubber wall and can be used with a Murphy weld collar or Murphy external float chamber. The MLS Series is available in both 1 1/2 and 2" NPT models.

Product Dimensions



Specifications

Process Connection: 2" NPT (MLS-020); 1-1/2" NPT (MLS-015)

Fluid Density (SG):

- 0.50 MIN (no extension)
- 0.65 MIN (1 inch extension)

Pressure Rating: 2000 psig (13.8 MPa) [138 bar]

Materials:

- Body: ASTM A351 CF8 (304 SS)
- Cover: ASTM A351 CF8 (304 SS)

Other Wetted Parts: 304 or 316 SS

Meets NACE MR0175 for direct exposure to H₂S

Process Temperature: -20 to 300°F (-29 to 149°C).

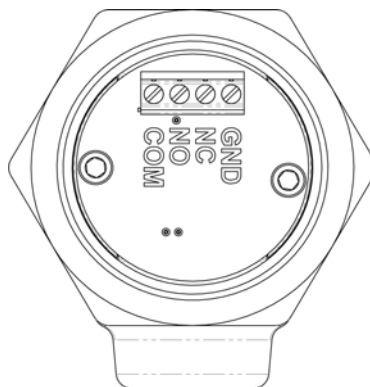
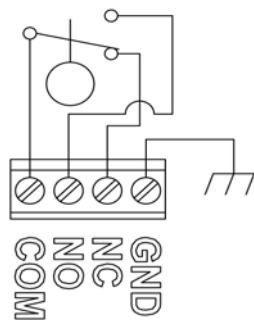
Electrical: 30VAC/VDC 75mA Form C SPDT

- Conductor cross section AWG/kcmil min.: 26
- Conductor cross section AWG/kcmil max.: 16

Canadian Registration Number: MLS-020, 0F01476.2
MLS-015, 0F12013.2

Electrical Wiring Diagram

STD WIRING DIAGRAM



Accessories

Refer to MLS Installation and Operations manual for additional information.

External Float Chamber 15700799

Operating Pressure: 2000psi (13.8MPa)[138 bar]

Operating Temperature: 400°F (204°C)

Shipping Weight: 18lbs (8.2kg)

1-inch Float Extension Kit 15000892

Weld Collar 15050375

Operating Pressure: 2000psi (13.8MPa)[138 bar]

Operating Temperature: 400°F (204°C)

Shipping Weight: 6lbs (2.7kg)

Approximate Shipping Weights and Dimensions (all models)

Weight: MLS-020, 5.5 lbs. (2.49 kg) MLS-015, 5 lbs (2.27 kg)

Dimensions: 14 x 5 x 3.5 in (356 x 127 x 89 mm)

How to Order

To order the MLS Series Level Switch, please use the product number below:

MLS-020 (2" NPT)

MLS-015 (1-1/2" NPT)



美国Murphy仪表经销商：

北京

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