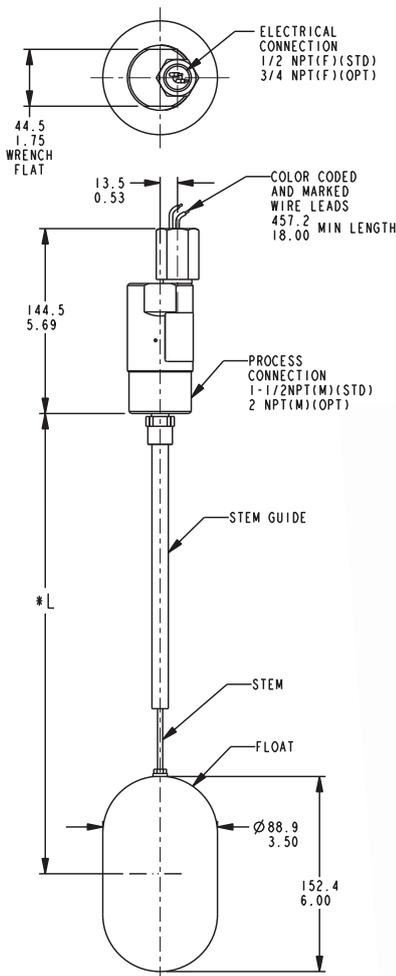


1550 Top Mounted Level Switch

Form 850CM

1550 is a vertically mounted, float-operated level switch suitable for plant and OEM applications where open or closed contacts are required to signal presence or absence of liquid at a discrete level. The float stem moves a magnet that actuates (deactuates) a hermetically sealed reed switch.



Linear = mm/in.
Drawing 0390428

Design and specifications are subject to change without notice.

Product Specifications

| | |
|---|---|
| Mounting | |
| Orientation | Vertical mount only |
| Body Material | 316 Stainless Steel |
| Connection Size | 1-1/2" through 6" |
| Connection Type | NPT(M) or Flanged |
| Maximum Process Pressure | up to 473 psi (32.6 bar) @ 400°F (204°C) |
| Process Temperature Range | -40 to 400°F (-40 to 204°C) |
| Electrical | |
| Switch Type | Hermetically sealed reed switch with 18" 20 AWG wire leads |
| Housing | Class I, Groups A, B, C & D; Divisions 1 & 2 with CS option |
| Relay Housing | Class I, Groups C & D; Divisions 1 & 2 with CS option |
| Connection Size | 1/2" NPT(F) |
| Minimum Specific Gravity | 0.60 (based on 14" insertion depth L in the figure at left) |
| Minimum Insertion Depth L | 5" (13 cm) |
| Full Coupling | 7" (17.8 cm) |
| Half Coupling | 5.25" (13.3 cm) |
| Maximum Insertion Depth L | 48" (122 cm) |
| Minimum Specific Gravity @ 48" (122 cm) | 0.71 |
| Design Code | ANSI B31.3 |
| Weight | Approximately 5 lbs. (2.2 kg) |
| Agency Listing* | CSA Certified (US & Canada) and ANSI/ISA 12.27.01, ATEX and IEC. See page 2. |

*Agency certifications may affect ratings. See Accessories for details.

1550 Top Mounted Level Switch

How to Order

Model Number System

| Switch Mechanisms 3 | | | a b c d |
|---|--|---|--|
| Amperages based on resistive loads | | | |
| General Purpose | SPST | 0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum | |
| General Purpose | SPDT | 0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum | |
| Low Power | SPST | 25 Watts Max | |
| Low Power | SPDT | 25 Watts Max | |
| Float Material 2 | | | a b |
| 316SS (Standard) | | 473 psig (32.6 bar) | |
| Monel | | 284 psig (19.6 bar) | |
| Process Connections 1 | | | a b c d e f g h i j k l |
| Threaded: | 1 1/2" NPT(M) 2" NPT(M) | | |
| Flanged: (Available with 316SS body only) | | | |
| May affect process pressure rating. | 2 1/2" 150# 300# 600# | | |
| | 3" 150# 300# 600# | | |
| | 4" 150# 300# | | |
| | 6" 150# 300# | | |
| | | | |
| | | | |
| | | | |
| 4 Optional Accessories | | | |
| a* | Insert accessory designator(s) as needed ATEX and IECEx dual approved. Ex d IIC Ga/Gb T4 (-40°C < Ta < +90°C), T5 (-40°C < Ta < +75°C) and Ex ia IIC T3 (-40°C < Ta < +125°C) | | |
| b* | ATEX and IECEx approved. Ex ia IIC T3 (-40°C < Ta < +125 °C) | | |
| c | 3/4" NPT(F) conduit connection | | |
| d* | CSA Certified. Class 1, Group A, B, C, D; Divisions 1 & 2. For relay option; Class 1, Group C & D, Divisions 1 & 2. Single seal ambient & process temperatures -40°C to +125°C | | |
| e | Explosion proof 316SS terminal box CSA Certified Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III, Division I (NEMA 4X) | | |
| f | NACE construction - MR 01-75 / ISO 15156 2003. Available only with 316SS materials of construction | | |
| g** | 24 VDC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2. | | |
| h** | 120 VAC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2 | | |
| i | Tag, stainless steel. (Attached with stainless steel wire to housing. Stamped with customer specified tagging information. 2 lines, 18 characters and spaces per line.) | | |
| ij | Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information. | | |
| * a, b or d option is required on all flange mounted units. **Not available with g or h switch options. | | | |

1550 Top Mounted Level Switch

Customer to specify insertion depth L for each switch. See drawing on page 1. Stem guides are not installed on units with insertion depth L less than 7" (177.8 mm). The 1550 Series level switch has a 3.5" (90 mm) diameter float. It will not fit through many process connections. Be sure there is access to attach the float from inside the vessel after instrument installation if necessary.

Test Certificates

| 1550 Level Switch | Certificate Designator | C1 | C3 | C4 | C5 | C6 | C7 | B5 | B6 | B7 |
|-------------------|--------------------------|----|----|----|----|----|----|----|----|----|
| | Calibration | ◆ | | | | | | ◆ | ◆ | ◆ |
| | Inspection Report | | ◆ | | | | | ◆ | ◆ | ◆ |
| | Compliance / Conformance | | | ◆ | | | | | | ◆ |
| | Dielectric Test | | | | ◆ | | | ◆ | | |
| | Insulation Resistance | | | | | ◆ | | ◆ | ◆ | |
| | QA Test Report | | | | | | ◆ | | | |

Replacement Parts

| Part Number | Designator |
|-------------|---|
| 3130-106 | SPST Hermetically Sealed Switch Capsule |
| 3130-245 | SPDT Hermetically Sealed Switch Capsule |
| 3130-107 | SPST Hermetically Sealed Switch Capsule |
| 3130-244 | L1 - SPDT Hermetically Sealed Switch Capsule |
| 3101-122 | 316SS Float. (Consult the factory for other materials.) |
| 3130-396 | Actuator Replacement Kit |

Limited Warranty

Cameron agrees to repair or replace any switch found to be defective in material or workmanship within five years from date of shipment. The limited warranty is valid only if the switch was installed in accordance with published factory installation instructions, operated within the design limitations stated on the nameplate, and returned to the factory for inspection, freight prepaid, within the warranty period. Contact the factory for return authorization. No claim for labor or consequential damages will be allowed.

Cameron_NuFlo流量仪表
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