



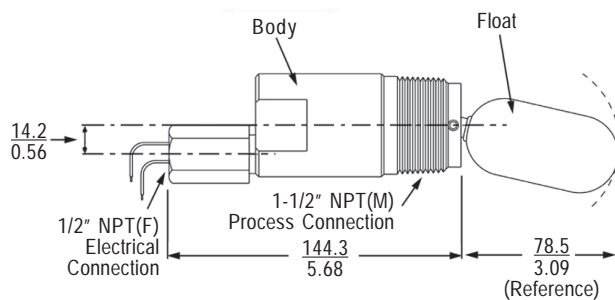
Type 1510 Electric Level Switch

Form 498

Type 1510 is a horizontally-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 extension arm moves a magnet which actuates (deactuates) a hermetically sealed reed switch. Actuation (deactuation) can be reversed by rotating the unit 180 degrees.



Dimensions



$$\text{Linear} = \frac{\text{mm}}{\text{in.}}$$

Design and specifications are subject to change without notice.

Product Specifications

Mounting (Half coupling only)

| | | |
|------------------|------------------------|-----|
| Orientation | Horizontal mount only | |
| Connection Size | 1-1/2" NPT(M) Standard | |
| For | Change | To |
| 2" NPT(M) | G5A | G2A |
| Flanged Mounting | G5A | * |

*See flange table on page 2 for option designator (316SS construction only)

Maximum Process Pressure 1500 psi (100 bar)

Electrical

| | |
|---------------------------|--|
| Switch Type | Hermetically sealed reed switch with 18" 20 AWG wire leads |
| Switch Rating (resistive) | 1 amp at 110 VAC 3 amps at 28 VDC |

| | |
|---|--|
| Housing | Class I, Group A, B, C & D; Division 1 & 2 |
| Relay Housing | Class I, Group C, D; Division 1 & 2 |
| Connection Size | 1/2" NPT(F) |
| Contact Form | SPST |
| (For SPDT change W9 to W1 in the model number.) | |

Minimum Specific Gravity 0.40

Design Code ANSI B31.3

Shipping Weight Approximately 6 lbs. (3 kg)

Agency Listing CSA Certified (optional). See Page 2.

How to Order

Select model number from table below. Accessory designator(s) may be added after ES if required. See page 2.

| Body Material | Float Material | Process Rating | | Model Number |
|----------------------|------------------|-----------------------|---------|---------------------------|
| 303SS* (Standard) | 316SS (Standard) | 1500 psi -40 to 400°F | 100 bar | 1510B - G5A - C - W9 - ES |
| | Monel | 900 psi -40 to 400°F | 62 bar | 1510B - G5A - M - W9 - ES |
| | Polypropylene | 5000 psi -40 to 150°F | 345 bar | 1510B - G5A - S - W9 - ES |
| 316SS | 316SS | 1500 psi -40 to 400°F | 100 bar | 1510C - G5A - C - W9 - ES |
| | Monel | 900 psi -40 to 400°F | 62 bar | 1510C - G5A - M - W9 - ES |
| | Polypropylene | 5000 psi -40 to 150°F | 345 bar | 1510C - G5A - S - W9 - ES |

*303SS is not recognized as an ANSI B31.3 approved material.

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Optional Flanges

Optional Flanges (316SS) construction only

| Designator | Raised Face Flange | | Designator | Raised Face Flange | |
|------------|--------------------|------|------------|--------------------|------|
| G7C | 2-1/2" | 150# | G4C | 4" | 150# |
| G7D | | 300# | G4D | | 300# |
| G7E | | 600# | G6C | 6" | 150# |
| G3C | 3" | 150# | G6D | | 300# |
| G3D | | 300# | | | |
| G3E | | 600# | | | |

On flanged units, the float will be detached from the unit during shipping.

Optional Accessories Add option designator(s) to end of model number.

| Designator | Description |
|------------|---|
| BB | Wetted parts are cleaned for industrial oxygen service. |
| CR | 3/4" NPT(F) conduit connection. |
| CS* | CSA Certified. Class I, Group A, B, C, D; Division 1 & 2. For relay option; Class I, Group C & D, Division 1 & 2. |
| NC | NACE construction - MR-01-75. Available only with 316SS materials of construction. |
| PP | Tag, fiber. Attached with plastic wire to housing. Stamped with customer specified tagging information. |
| RB | 24 VDC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Division 1 & 2. |
| RC | 120 VAC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Division 1 & 2. |
| RR | Tag, stainless steel. Attached with stainless steel wire to housing. Stamped with customer specified tagging information. |
| TT | Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information. |
| VV | Fungicidal varnish. Covers exterior except working parts. |
| YY | Epoxy coating. Exterior only. Polyamide epoxy with 316SS pigment. |
| CZ | ANSI B31.3 certificate of conformance. |

*CS option is required on all flange mounted units.

Replacement Parts

| Part Number | Description |
|-------------|--|
| 3130 - 091 | SPST Hermetically Sealed Reed Switch Capsule |
| 3130 - 242 | SPDT Hermetically Sealed Reed Switch Capsule |
| 3130 - 106 | SPST Hermetically Sealed Reed Switch Capsule for CSA Certified units |
| 3130 - 243 | SPDT Hermetically Sealed Reed Switch Capsule for CSA Certified units |
| 3130 - 052 | 316SS Float Assembly |

Limited Warranty

SOR 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.



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