



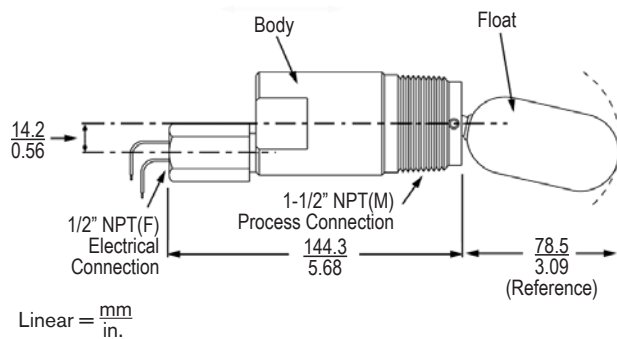
Type 1510 Electric Level Switch

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



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, Groups A, B, C & D; Divisions 1 & 2	
Relay Housing	Class I, Groups C & D; Divisions 1 & 2	
Connection Size	1/2" NPT(F)	
Contact Form	SPST (For SPDT change W9 to W1 in the model number.)	
Minimum Specific Gravity	0.45	
Design Code	ANSI B31.3	
Shipping Weight	Approximately 6 lbs. (3 kg)	
Agency Listing	CSA Certified (optional). See Page 2.	

Design and specifications are subject to change without notice. For latest revision, see www.sorinc.com.

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

*Also known as ASME SA 320 Grade B8F.

Type 1510 Electronic Level Switch

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.

Description	Designator
Wetted parts are cleaned for industrial oxygen service.	BB
ATEX and IECEX approved.	CL
3/4" NPT(F) conduit connection.	CR
CSA Certified. Class I, Group A, B, C, D; Divisions 1 & 2. For relay option; Class I, Group C & D, Divisions 1 & 2.	CS*
Canadian Registration Number (CRN). Maximum allowable pressure rating is 1500 psi. Consult the factory for details.	CV
Manual check accessory (uses Viton GLT o-rings).	MC**
NACE construction - MR-01-75. Available only with 316SS materials of construction.	NC
Tag, fiber. Attached with plastic wire to housing. Stamped with customer-specified tagging information.	PP
24 VDC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2.	RB
120 VAC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2.	RC
Tag, stainless steel. Attached with stainless steel wire to housing. Stamped with customer-specified tagging information.	RR
Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information.	TT
Fungicidal varnish. Covers exterior except working parts.	VV
Powder coat epoxy coating. No coating on 316SS parts or plated screws. (500 hours)	PY
Epoxy coating. Exterior only. Polyamide epoxy with 316SS pigment. (200 hours)	YY
ANSI B31.3 certificate of conformance.	CZ

*CS option is required on all flange mounted units. **Manufacturer limits on Viton GLT are -40 to 400°F.

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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