

## SERIES L4 | W.E. ANDERSON FLOTECT® Float Switch

### FEATURES/BENEFITS

- Unique magnetically actuated switching design gives superior performance
- No bellows, springs, or seals to fail
- Free-swinging float attracts a magnet within the solid metal switch body, actuating a snap switch by means of a simple lever arm
- Float arm hinge design limits the arm angle to prevent vertical hang up

### APPLICATIONS

- Direct pump control for maintaining level
- Automatic tank dump operations
- Level control
- Valve control
- Level alarm in sumps, scrubber systems, hydro-pneumatic tanks, boilers, and water/wastewater treatment processes



### DESCRIPTION

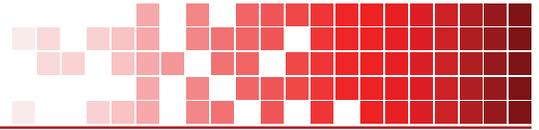
The **SERIES L4** FloTECT® Float Switches is a rugged and reliable float switch which operates automatically to indicate tank level.

### SPECIFICATIONS

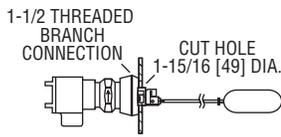
<b>Service</b>	Liquids compatible with wetted materials.
<b>Wetted Materials</b>	Float and Rod: 316 SS; Body: Brass or 316 SS standard; Magnet Keeper: 430 SS standard, 316 SS or nickel optional.
<b>Temperature Limits</b>	4 to 275 °F (-20 to 135 °C) standard, MT high temperature option 400 °F (205 °C) [MT option not UL, CSA, ATEX or IECEx]. ATEX and IECEx options: Ambient temperature -4 to 163 °F (-20 to 73 °C); Process temperature -4 to 163 °F (-20 to 73 °C).
<b>Pressure Limit</b>	Brass body 1000 psig (69 bar), 316 SS body 2000 psig (138 bar). Standard float rated 100 psig (6.9 bar). For other floats, see options.
<b>Enclosure Rating</b>	Weatherproof and Explosion-proof. **Listed with UL and CSA for Class I, Groups C and D; Class II, Groups E, F, and G. ATEX <b>CE</b> 0344 <b>Ex</b> II 2 G Ex d IIB T6 Gb -20 °C ≤ Tamb ≤ 73 °C. -20 °C ≤ Process Temp ≤ 73 °C. EC-Type Certificate No.: KEMA 03 ATEX 2383. ATEX Standards: EN60079-0: 2009; EN60079-1: 2007. IECEx Certified: For Ex d IIB T6 Gb -20 °C ≤ Tamb ≤ 73 °C. -20 °C ≤ Process Temp ≤ 73 °C. IECEx Certificate of Conformity: IECEx DEK 11.0071. IECEx Standards: IEC 60079-0: 2007; IEC 60079-1: 2007.
<b>Switch Type</b>	SPDT snap switch standard, DPDT snap switch optional.
<b>Electrical Rating</b>	UL, FM, ATEX and IECEx models: 10 A @ 125/250 VAC (V~). CSA models: 5 A @ 125/250 VAC (V~); 5 A res., 3 A ind. @ 30 VDC (V---). MV option: 1 A @ 125 VAC (V~); 1 A res., .5 A ind. @ 30 VDC (V---). MT option: 5 A @ 125/250 VAC (V~). [MT and MV option not UL, CSA, FM, ATEX or IECEx].
<b>Electrical Connections</b>	UL and CSA models: 16 AWG, 6" (152 mm) long. ATEX and IECEx unit: terminal block.
<b>Conduit Connection</b>	3/4" female NPT standard or M25 with -BSPT option.
<b>Process Connection</b>	1-1/2" male NPT or 1-1/2" male BSPT standard, 2-1/2" male NPT or 2-1/2" male BSPT standard optional floats.
<b>Mounting Orientation</b>	Horizontal installation standard, optional vertical top mount.
<b>Dead Band</b>	3/4" (19 mm) for standard float.
<b>Specific Gravity</b>	0.7 minimum with standard float. For other floats see model chart.
<b>Weight</b>	4 lb 9 oz (2.07 kg).
<b>Agency Approvals</b>	ATEX, CE, CSA, FM, IECEx, UL**.

\*\*No housing option (-NH) has no approvals

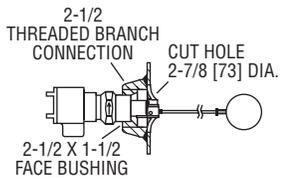




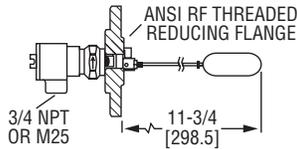
## DIMENSIONS



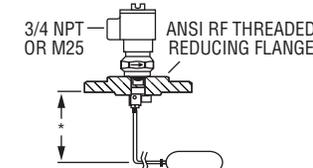
Standard Installation



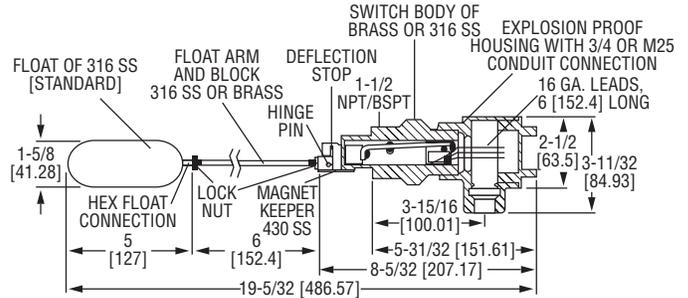
Horizontal, 2-1/2 Threaded Branch Connection Installation with Optional 2-1/2 [64] Spherical Float



Horizontal, Flange Installation



Vertical, Flange Installation



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

<p><b>SERIES</b></p> <p><b>L4</b> - FLOTECT® Float switch</p> <p><b>BODY</b></p> <p><b>BLANK</b> - Brass</p> <p><b>-SS</b> - 316SS (body and float with 430SS magnet keeper (wetted part))</p> <p><b>HOUSING</b></p> <p><b>BLANK</b> - With housing</p> <p><b>-NH</b> - No housing (has no approvals)</p>	<p><b>L4</b></p> <p><b>-SS</b></p> <p><b>-BSPT</b></p>	<p><b>OPTIONS</b></p> <p><b>-D</b> - DPDT contacts</p> <p><b>-MV</b> - Gold plated contacts, options for dry circuits*</p> <p><b>-MT</b> - High temperature, option rated 400° F (204° C)*</p> <p><b>-TRI</b> - Time delay relay with 2 SPDT contacts, adjustable from 0-1 to 0-31 minutes (increasing flow)</p> <p><b>-TRD</b> - Time delay relay with 2 SPDT contacts, adjustable from 0-1 to 0-31 minutes (decreasing flow)*</p> <p><b>-316</b> - 316 SS magnet keeper, option to replace standard 430 SS (316SS body and float with 430SS magnet keeper (wetted part))</p> <p><b>-AT</b> - ATEX compliant construction</p> <p><b>-IEC</b> - IECEx certified construction</p> <p><b>-TOP</b> - Top mounted for vertical flange installation [distance from flange face to centerline of float to be specified, 20" (508 mm) max]</p> <p><b>-50</b> - Optional float (2-1/2" spherical) 304 SS rated 50 psig (3.5 bar) and 0.5 min. s.g.</p> <p><b>-150</b> - Optional float (2-1/2" spherical) 316 SS rated 150 psig (10.3 bar) and 0.7 min. s.g.</p> <p><b>-300</b> - Optional float (2-1/2" spherical) 304 SS rated 300 psig (20.7 bar) and 0.7 min. s.g.</p> <p><b>-BSPT</b> - 1-1/2" or 2-1/2" male BSPT process connection and M25 conduit connection</p>
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\*See electrical rating in specification, no listings or approvals

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