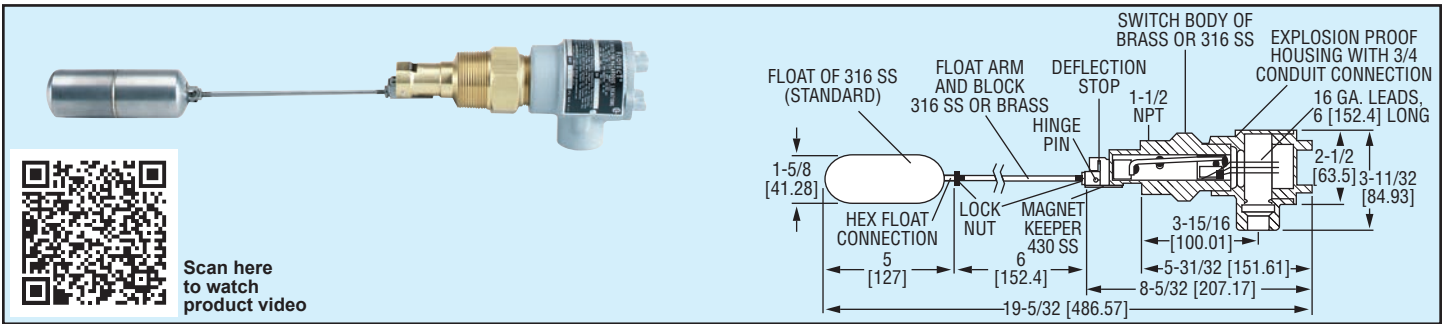




Series  
L4

# FLOTECT® Float Switch

Magnetically Operated Switch, Leak Proof Body, Explosion-Proof



**Rugged and reliable** the Series L4 FloTECT® Level switch operates automatically to indicate tank level. Perfect for starting or stopping pumps, opening or closing valves, or actuate level alarm signals. A unique magnetically actuated switching design gives superior performance. There are no bellows, springs, or seals to fail. Instead, the 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 hangup.

## FEATURES

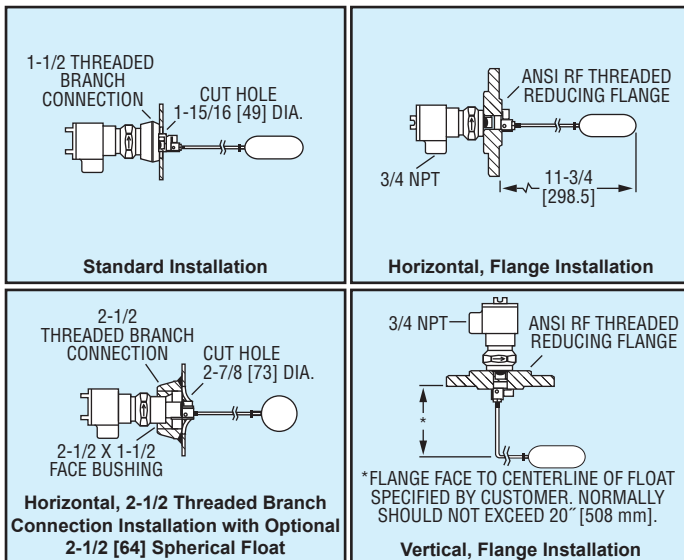
- Leak proof body machined from bar stock
- Choice of floats dependent on maximum pressure and specific gravity
- Weatherproof, designed to meet NEMA 4 (IP56)
- Explosion-proof (listings included in specifications)
- Installs directly and easily into tank with a thredolet or flange (see application drawings)
- Electrical assembly can be easily replaced without removing the unit from the installation so that the process does not have to be shut down
- Horizontal installation or optional top mount vertical installation

## APPLICATIONS

- Direct pump control for maintaining level
- Automatic tank dump operations
- Control levels or provide alarms in sumps, scrubber systems, hydro-pneumatic tanks, low pressure boilers, and various waste water/sewage treatment processes

| Model      | Description                                |
|------------|--------------------------------------------|
| L4         | Brass body, side wall mounting             |
| L4-NH**    | Brass body, side wall mounting, no housing |
| L4-SS      | 316SS* body, sidewall mounting             |
| L4-SS-NH** | 316SS* body, sidewall mounting, no housing |

## Application Drawings For FloTECT® Float Switches



\*316SS body and float with 430SS magnet keeper (wetted part).

\*\*No Housing Option (-NH) has no approvals.

## SPECIFICATIONS

**Service:** Liquids compatible with wetted materials.

**Wetted Materials:** Float and Rod: 316 SS; Body: Brass or 316 SS standard; Magnet Keeper: 430 SS standard, 316 SS or nickel optional.

**Temperature Limits:** 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).

**Pressure Limit:** 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.

**Enclosure Rating:** Weatherproof and Explosion-proof. \*\*Listed with UL and CSA for Class I, Groups C and D; Class II, Groups E, F, and G. ATEX **CE** 0344 **Ex** II 2 G Ex d IIB T6 Gb -20°C≤Tamb≤73°C.

-20°C≤Process Temps≤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 Temps≤73°C.

IECEx Certificate of Conformity: IECEx DEK 11.0071.

IECEx Standards: IEC 60079-0: 2007; IEC 60079-1: 2007.

**Switch Type:** SPDT snap switch standard, DPDT snap switch optional.

**Electrical Rating:** UL, FM, ATEX and IECEx models: 10A @ 125/250 VAC (V~).

CSA models: 5A @ 125/250 VAC (V~); 5A res., 3A ind. @ 30 VDC (V=). MV option: 1A @ 125 VAC (V~); 1A res., .5A ind. @ 30 VDC (V=). MT option: 5A @ 125/250 VAC (V~). [MT and MV option not UL, CSA, FM, ATEX or IECEx].

**Electrical Connections:** UL and CSA models: 16 AWG, 6" (152 mm) long. ATEX and IECEx unit: terminal block.

**Process Connection:** 1-1/2" male NPT standard, 2-1/2" male NPT standard optional floats.

**Mounting Orientation:** Horizontal installation standard, optional vertical top mount.

**Weight:** 4 lb 9 oz (2.07 kg).

**Dead Band:** 3/4" (19 mm) for standard float.

**Specific Gravity:** 0.7 minimum with standard float. For other floats see model chart.

**Agency Approvals:** ATEX, CE, CSA, FM, IECEx, UL\*\*.

**OPTIONS FOR L4 SWITCHES ABOVE** — Add suffixes to model numbers

**DPDT contacts**, add suffix **-D**

**Gold Plated Contacts** option for dry circuits, add suffix **-MV**

(see electrical rating in specifications, no listings or approvals)

**High Temperature** option rated 400°F (204°C), add suffix **-MT**

(see electrical rating in specifications, no listings or approvals)

**Time Delay Relay** option with 2 SPDT contacts, adjustable from 0-1 to 0-31 minutes add suffix **-TRI** (increasing flow) or

**-TRD** (decreasing flow) (no listings or approvals)

**\*316 SS Magnet Keeper** option to replace standard 430 SS, add suffix **-316**

**ATEX** compliant construction, add suffix **-AT**

**IECEx** certified construction, add suffix **-IEC**

**Top Mounted** option for vertical flange installation [distance from flange face to centerline of float to be specified, 20" (508 mm) max], add suffix **-TOP**

**Optional Floats (all 2-1/2" spherical):**

304 SS rated 50 psig (3.5 bar) and 0.5 min. s.g., add suffix **-50**

316 SS rated 150 psig (10.3 bar) and 0.7 min. s.g., add suffix **-150**

304 SS rated 300 psig (20.7 bar) and 0.7 min. s.g., add suffix **-300**

Consult factory for price and availability of fittings for L4 installation. Threaded Branch Connection, bushings, and flanges are available in a variety of sizes and materials.

LEVEL

Level Switches,  
Float

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