

LS-6 Series (Plastic) Compact, Side-Mounted Level Switch

Specifications

Wetted Materials:

Polypropylene - Float Assembly, Stem, Nut
Stainless Steel - Retaining Clip

Electrical Rating:

Max. Contact Capacity = 20VA DC/AC
Initial Contact Resistance = 150mΩ (Max.)
Max. Voltage = 300V DC/AC
Max. Current = 0.5A DC/AC
Insulation Resistance = 10MΩ (Min.)

Max. Pressure:

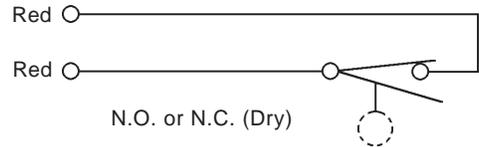
100 PSI. @ 70° F.

Temperature Rating:

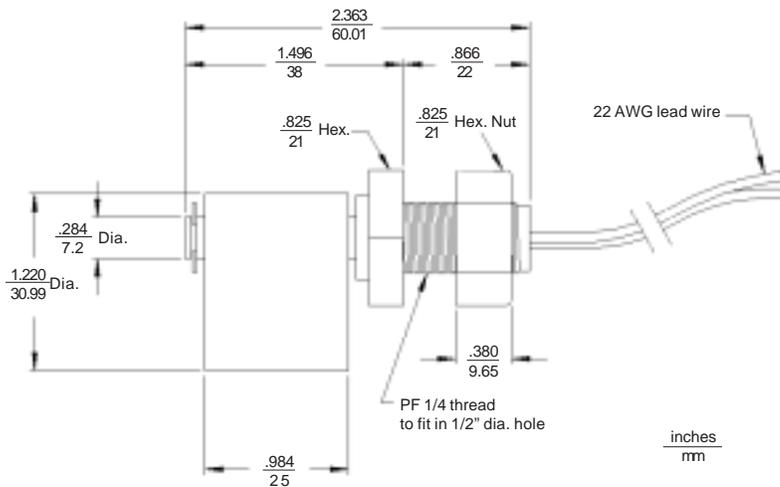
-40°F to 225°F.

Electrical Connection

Typical Wiring Diagram

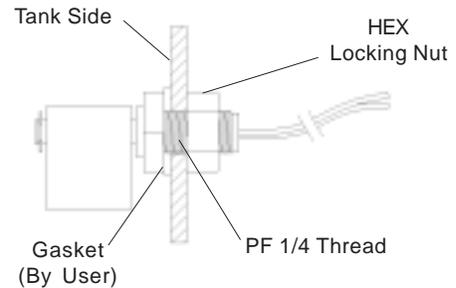


Dimensional Data . . . (Mounting Attitude is Horizontal)



Mounting

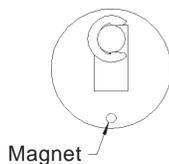
Assemble gasket (by user) on PF 1/4" threaded mounting and install unit through clear hole in tank side, from inside of tank. Lock in place with HEX nut (supplied). **Tighten to 15 in./lb., Max. Do not overtighten.**



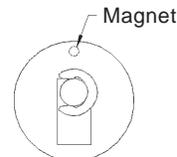
Installation

Install with float positioned as shown for the required switch operation. Be sure that slot is in the vertical position and magnet is down for N.O. (Dry) operation or magnet is up for N.C. (Dry) Operation.

Units Shown Installed "Magnet Down" for N.O. (Dry) Operation

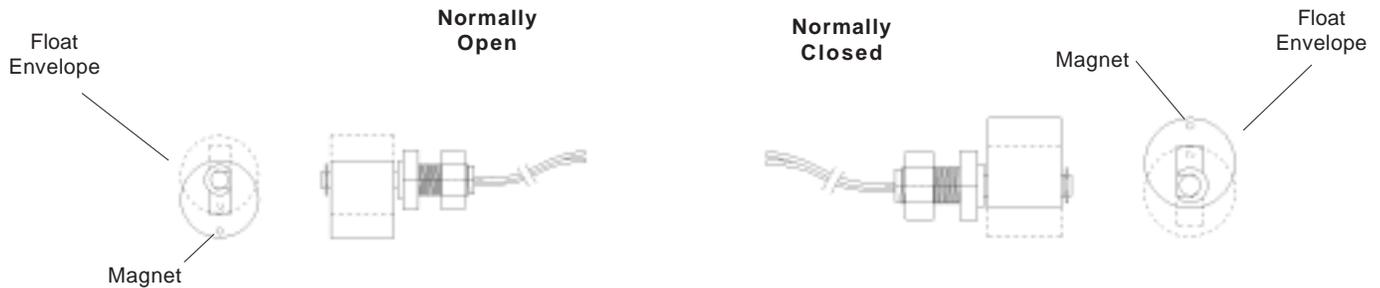


Units Shown Installed "Magnet Up" for N.C. (Dry) Operation



Switch Operation

Depending on the mounting position, the float on these switches rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed.



The switch is mounted so that the **float lowers** with the liquid level. **The switch is N.O.**

The switch is mounted so that the **float rises** with the liquid level. **The switch is N.C.**

Maintenance

Normally, no maintenance of any kind is required. When excessive contamination is present in the liquid, an occasional wipe-down cleaning is all that is needed.

Important Points:

- Gems products must be maintained and installed in strict accordance with the National Electrical Code and the applicable Gems product instruction Bulletin that covers installation, operation and proper maintenance. Failure to observe this information may result in serious injury or damages.
- For hazardous area applications involving such things as, but not limited to, ignitable mixtures, combustible dust and flammable materials, use an appropriate explosionproof enclosure or intrinsically safe interface device.
- Please adhere to the pressure and temperature limitations shown throughout this catalog for our level and flow sensors. These limitations must not be exceeded. These pressures and temperatures take into consideration possible system surge pressures/temperatures and their frequencies.
- Selection of materials for compatibility with the media is critical to the life and operation of Gems products. Take care in the proper selection of materials of construction, testing is required.
- NSF-approved sensors are made of materials approved for potable water applications according to Standard 61.
- Stainless steel is generally regarded as safe by NSF and FDA.
- Life expectancy of switch contacts varies with application. Contact Gems if life cycle testing is required.
- Ambient temperature changes do affect switch set points, since the gravity of a liquid can vary with temperature.
- Our sensors have been designed to resist shock and vibration. However, shock and vibration should be minimized.
- Filter liquid media containing particulate and/or debris to ensure the proper operation of our products.
- Electrical entries and mounting points in an enclosed tank may require liquid/vapor sealing.
- Our sensors must not be field-repaired.
- Physical damage sustained by product may render it unserviceable.

Return Policy

Returns are accepted on stock items up to 30 days from date of order. You must contact our Returns Department for a Return Authorization (RA) number. Return the goods - freight prepaid - in the original container and include original packing slip. C. O. D. returns are not accepted. Gems reserves the right to apply restocking charges.

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