EATON

Aerospace
Sensing & Controls

Float Switches

All Eaton Tedeco® brand float switches use the same basic operating principle: a Teflon® coated float, containing a rare-earth magnet moves with the liquid level within the sensor housing and magnetically actuates one or more hermetically sealed dry reed switches. As the float moves freely within the housing, there are no wear or pivot points to fail in service.

All units feature a hermetic seal between the fluid cavity and the electrical component cavity, ensuring intrinsic safety in all fluid applications. There are no elastomer seals to leak or otherwise fail in performance.

In multi-level units, the reed switches are mounted on a P.C. board and wired to a resistance network. The output is a discrete voltage signal proportional to the liquid level in the reservoir.

Float switches are designed for operation in harsh aerospace engine and gearbox environments of high temperature and vibration and are capable of withstanding voltage transients up to 600 VDC for 10 microseconds through closed contacts.

Suitable for mounting in the top, bottom, or side of the fluid reservoir, these float switches can be used in a variety of fluids, providing highly accurate level sensing capabilities in either an ascending or descending fluid condition.

Any style MIL-standard connector or electrical connection is available to meet the customer's interface.

Multi Level Float Switch

Options

- Compatible with any MIL-standard fluid
- Any style MIL-standard connector or electrical connection available

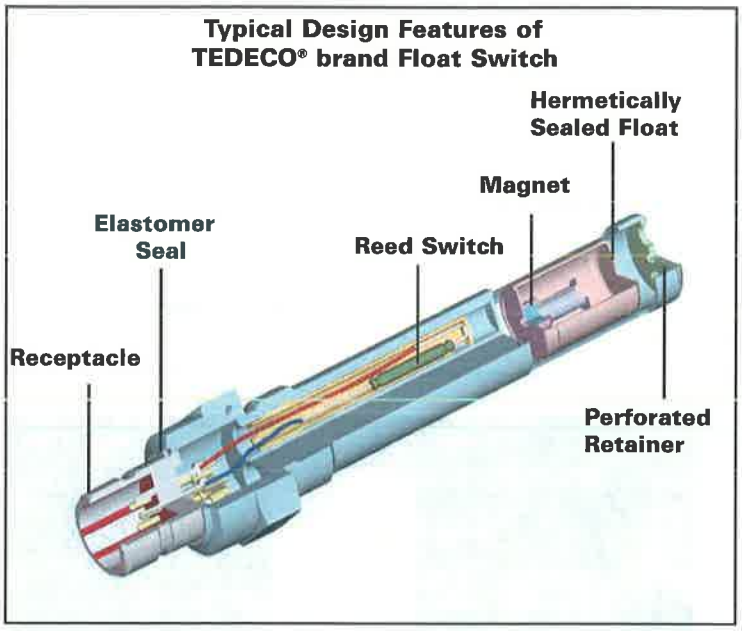
Specifications

- Temperature Range: -65°F to +400°F
- Operating Voltage Range: 5 VDC to 35 VDC
- Actuation: (Ascending or descending calibration available)
- Materials:
  Float: Aluminum alloy
  Housing: Aluminum alloy
  Magnet: CO/SM (rare earth)
  Switch Support: Engineering thermoplastic
- Voltage Transients: 600 VDC for 10 microseconds through closed circuits

Features

- Temperature Range: -65°F to +312°F
- 6.2 VDC to 35 VDC
- Ambient pressure to 30 psig
- Ascending or descending actuation calibration
- Aircraft quality
- Meets MIL-STD-461

Diagram




Single Level Float Switch

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