

# Series HT Reed Switch Float Assembly



## Highland Tank

Housing	Thread Size	Pressure	Temperature	Contact Rating	Specific Gravity
Epoxy coated die cast aluminum NEMA 4 integrity w/Neoprene gaskets	2" – 11½ NPT	125 psig.	Buna-N float + 180° F S. S. float + 240°F	50 watts (½ amp max switching current)	Buna-N float: liquid over .6 S. S. float: liquid over .8

### Series HT

The Highland Series HT Reed Switch is a customized switch/float assembly designed for level sensing control of non-conductive liquids. Engineered to your specific needs with one, two, three or four floats, the point level controls operate in liquids with a specific gravity of .6 or greater. Component parts are available in a variety of materials for product compatibility.

### Applications

Models are available with one, two, three or four floats. Point level control for clean non-conductive liquids of specific gravity over .6.

### Light Loads

HT Series Reed Switch can be used to directly interface with microprocessor or miniature panel lamps.

### Heavy Loads

Heavier loads such as motor starters and bells, etc. Amplifying relays are also available.

### Hazardous Locations

For level control in day tanks, underground fuel storage tanks or any potentially explosive applications. The Series HT Reed Switch MUST be interfaced with an intrinsically safe control.

### Benefits

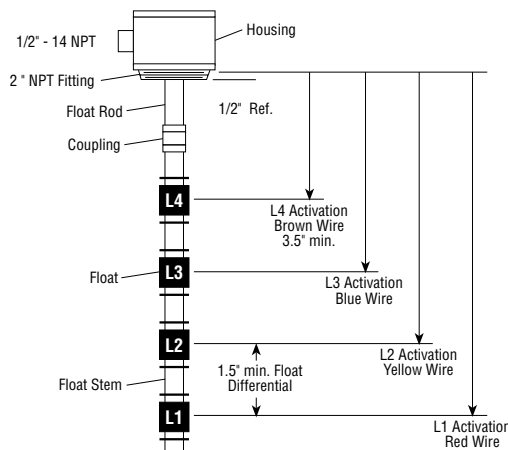
- Flexible, easily customized system
  - Float, rod and base materials can be matched to product being stored
  - Floats can be field changed for normally open or closed operation
- Easy to install
  - Float, threaded connection and NEMA 4 integrity housing all in one unit
  - No need for extra junction box
- Safe, Reliable Operation
  - Each float/reed switch contained in a separate rod
  - Independent operation of each float/reed switch

### Series HT/Principle of Operation

The SPST dry reed switch is potted into the float stem. During operation, the float, which contains a small magnet, is lifted by the liquid. The reed switch closes as the magnet passes by.

This operation can easily be reversed by removing the lower snap ring, rotating the float 180°, and reinstalling the snap ring. The reed switch will close when the float is in the down position. Lifting the float will cause the magnet to move away from the reed switch, causing it to open.

*NOTE: Assemblies are shipped in the normally open position; closes on liquid.*



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