DATASHEET

HLTFD

H SERIES SENSORS

Highlights

- Provides high liquid level detection using reliable magnetic reed switch design
- Does not require power
- Single or Dual Actuation option for high/high-high
- 12" to 108" (30.5 to 274.3 cm) stem length option
- Switch Material: 316 Stainless Steel
- Process Temperature: -40 to 120 °C (-40 to 248 °F)
- Supports Normally Open or Normally Closed output, user-configurable
- Supports inductive and capacitive loads
- NEMA 4X, IP66
- Zone 0 / Explosion-proof / Flameproof

IEC IECEx

Single or Dual Actuation Liquid Level Detection Solution

Reed Switch Reliability / Low Maintenance

The Float Type Level Switch by OleumTech is part of the H Series line of high quality instruments delivering unrivaled performance, reliability, and accuracy in the most demanding environments, including hazardous locations.

The float-based level switch is designed to be mounted on the top of a liquid storage tank and is used for detecting critical overfill conditions for high level alarm, monitoring, and control applications. The HLTFD provides support for Normally Open (NO) or Normally Closed (NC) output type and supports inductive and capacitive loads.

Durable 316SS Construction / Explosion-proof

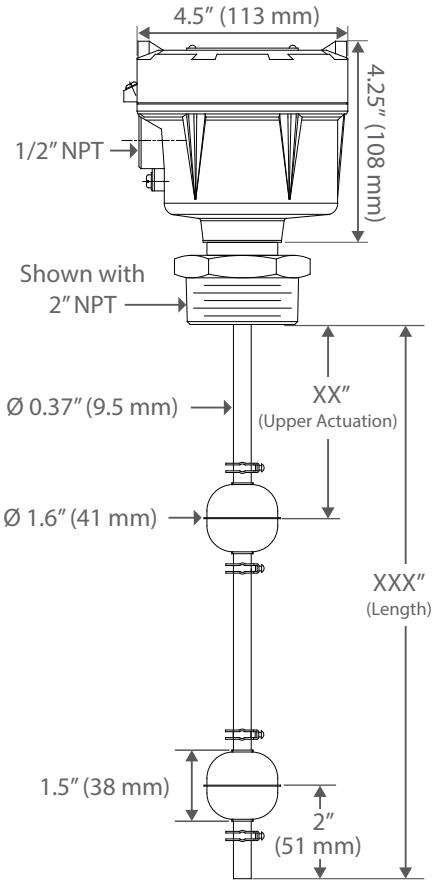
The H Series HLTFD Float Type Level Switch is certified for use in Zone 0 hazardous locations and is Explosion-proof/Flameproof.

The HLTFD is a simple apparatus and does not require power to operate. The level switch can be ordered with a single or dual actuation switching option along with customizable set points. The stem length is available from 1 ft to 9 ft lengths in 1" increments.

Technical Specifications

HARDWARE FEATURES	
Device Functionality	· Liquid Level Detection Switch using Float-based Reed Switch Technology
Interface	· Relay
CERTIFICATION & COMPLIANCE	
Safety	· Explosion-proof/Flameproof for Use in Hazardous Locations · IECEx TUR 19.0036 · Ex db IIB T4 Gb, Ex tb IIIC T135 °C Db
MECHANICAL SPECIFICATIONS	
Dimensions (Head)	· 4.45" (W) x 4.25" (H) x 4.45" (D) / 113 mm (W) x 108 mm (H) x 113 mm (D)
Stem Length	· 12" to 108" (30.5 cm to 274.3 cm)
Float Dimensions	· 1.6 (W) x 1.5" (H) x 0.43" (ID) / 41 mm (W) x 38 mm (H) x 11 mm (ID)
Specific Gravity (SG)	· >0.7, 0.55 by Special Order
Package Dimensions	· Dependent on Switch Length (Ask Sales for Details)
Package Weight	· Dependent on Switch Length (Ask Sales for Details)
Ports	· Two 1/2" NPT (One Plug Provided)
Connection Fitting (Standard)	· 2" NPT
Connection Fitting Options	· NPT, BSP, PF, 150 lbs, 300 lbs
Enclosure Casing Material	· Type 4X Aluminum; IP66
Switch Material	· 316 Stainless Steel
Operating Pressure	· 0.7 SG: 497.8 PSI / 34.3 BAR; 0.55 SG: 290 PSI / 20 BAR
ELECTRICAL SPECIFICATIONS	
Signal Output	· SPST Reed Switch, 240 Vac / 200 Vdc, 50 W, 0.5 A
Output Types	· Normally Open or Normally Closed
GENERAL SPECIFICATIONS	
Operating Conditions	· Process Temperature: -40 to 120 °C (-40 to 248 °F) · Ambient Temperature: -40 to 70 °C (-40 to 158 °F) · Humidity: 0 to 99 %, Non-Condensing
Warranty	· 2-Year Parts and Labor
ORDERING INFORMATION	
Model Numbers Series	· HLTFD

Dimensions



Ordering Information

H L T F D U F 2 2 0 3 6 - X X

Model Series

Connection Type
U = NPT
O = 150 lbs (Flange)
P = 300 lbs (Flange)
R = PF
T = BSP

Connection Size
F = 2" I = 4"
G = 2.5" J = 5" (Flange)
H = 3" K = 6" (Flange)

Output
Normally Open / Normally Closed
User-configurable

Float Quantity
1
2

Length
12" to 108" in 1" Increments

XX" = Upper Actuation Point Length
Measured From Top to Upper Float
Applicable Only on Dual Actuation Models

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tf 1.866.508.8586 | ph 1.949.305.9009 | fx 1.949.305.9010 | oleumtech.com | sales@oleumtech.com