

Model VHL

Vibrating Fork Point Level Sensor for Liquids

Proven Technology, High Value

Ideal Technology for Wide Range of Liquids

Relay Output in Compact Enclosure



The Next Level

BlueLevel[®]
technologies

Principal of Operation

Model VHL vibrating fork level switches are suitable for level detection of a wide range of liquids. The operation principle is based on an electronic circuit exciting piezoelectric crystals, thereby making the fork probe vibrate. As the fluid or medium reaches and covers the fork its vibration changes, or stops completely. The fork will start vibrating again as the fluid sets it free. The electronics sense the change of vibration and causes the relay contacts to change state.

Application and Use

Mounted on pipes or tanks the filling and emptying of vessels can be controlled using the Model VHL as they can generate fail-safe alarms (on power failure) providing overflow- or dry run protection where switching of high current loads is required (refer to technical specifications for relay).

Standard Sensor Model Includes

- Threaded or Tri-Clamp process connections
- Short Probe (2.7"/69mm long)
- Standard Probe (4.9"/125mm long)
- Long Probe (7.9"/200mm long)
- Extended Probe (12" - 118"/300mm-3,000mm)
- Ordinary Locations

Technical Data Summary

Power Supply	20-255VAC, 50/60Hz; 20-60VDC
Consumption	AC: 1.2-17VA DC: <3W
Enclosure Protection	IP67 (NEMA Type 6)
Process Density	≥ 0.7 S.G. (0.7 g/cm ³)
Maximum Pressure	588 psi (40 bar)
Maximum Viscosity	10,000 cSt (mm ² /s)
Medium Temperature	-40°F to +266°F (-40°C to +130°C)
Ambient Temperature	-22°F to +158°F (-30°C to +70°C)
Local Indication	Bi-Color LED Alarm – Red Normal – Green
Output	SPDT Relay, 8A @ 250VAC
Probe Material:	316Ti Stainless Steel (DIN 1.4571)
Housing Material:	PBT Fiber-Reinforced, Flame Retardant, Painted
Certifications:	CE Mark

Model VHL

Vibrating Fork for Liquids

- ✓ Polished Vibrating Fork
- ✓ Unaffected by Dielectric Constant, Conductivity, Viscosity, Pressure and Temperature
- ✓ Relay Output in Compact Enclosure
- ✓ High Process Temperature (266°F/130°C)
- ✓ IP67 (NEMA Type 6)
- ✓ You are protected - *golden parachute support*

Ordering Information – Sensor

Final Assembly Part Number Structure

45 - 1X11 - 11X

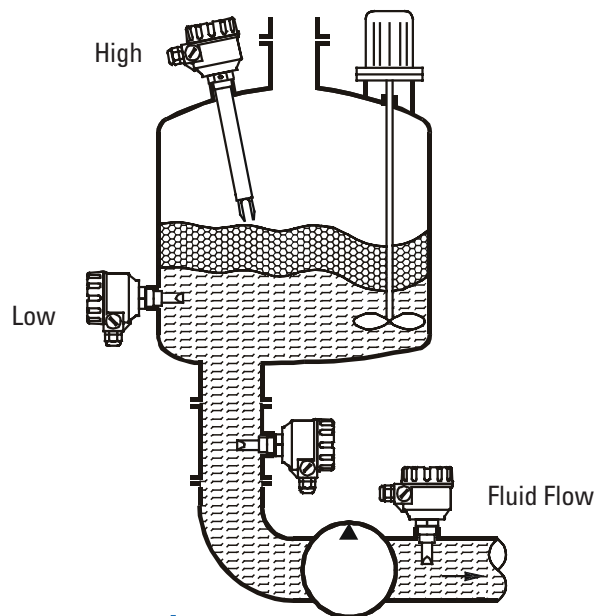
Probe Length

- 1 - 2.7" (69mm)
- 2 - 4.9" (125mm)
- 3 - 7.9" (200mm)
- 4 - Extended (12" – 118")

Process Connection

- 1 - 1" NPT
- 2 - 1/2" Tri-Clamp

Product Use



The Next Level

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