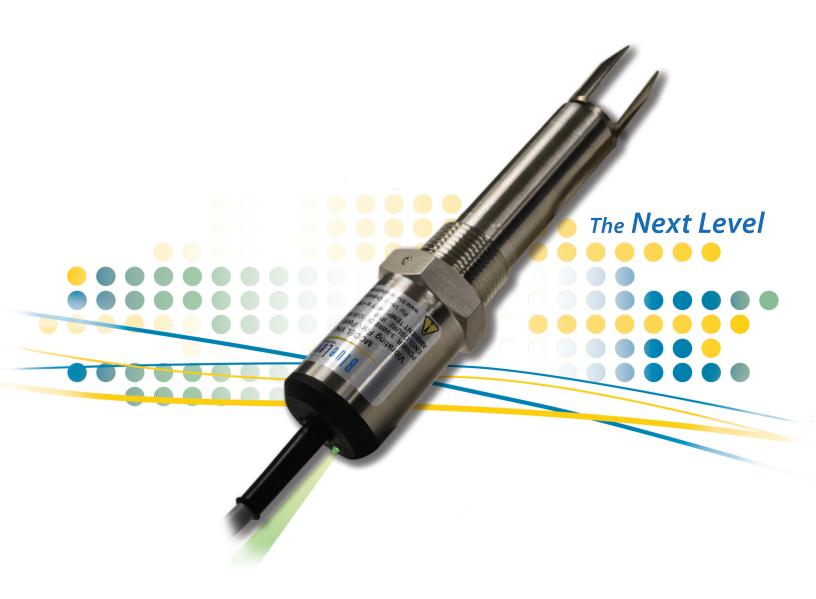
Model VHL Mini

Vibrating Fork Point Level Sensor for Liquids

Miniature Enclosure, Proven Technology and High Value

Ideal Technology for Wide Range of Liquids Solid-State Outputs for Use with PLC and Control Systems





Principal of Operation

Model VHL Mini 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 solid-state output 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 alarms providing overfill- or dry run protection where input to PLC's, Controls Systems is required, and where switching low current loads is needed (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 2-Wire AC 20-255VAC

3-Wire DC 12-55VDC

Consumption AC: Load Dependent

DC: <0.6W

Wire Connection **3m Prewired Cable Enclosure Protection** IP68 (NEMA Type 6P) **Process Density** \geq 0.7 S.G. (0.7 g/cm³) Maximum Pressure 588 psi (40 bar) 10,000 cSt (mm²/s) **Maximum Viscosity** Medium Temperature -40° F to $+266^{\circ}$ F $(-40^{\circ}C \text{ to } +130^{\circ}C)$

 -22° F to $+158^{\circ}$ F

Ambient Temperature

 $(-30^{\circ}\text{C to } +70^{\circ}\text{C})$ **Bi-Color LED**

Local Indication

Alarm - Red Normal – Green

Output AC: 350mA Maximum

DC: NPN/PNP 350mA

Maximum

316Ti Stainless Steel Material:

(DIN 1.4571)

Certifications: CE Mark

Model VHL Mini

Miniature Vibrating Fork for Liquids

- ✓ Polished Vibrating Fork
- ✓ Unaffected by Dielectric Constant, Conductivity, Viscosity, Pressure and Temperature
- ✓ Solid-State Output (AC and DC Versions)
- ✓ High Process Temperature (266°F/130°C)
- ✓ IP68 (NEMA Type 6P)
- ✓ You are protected golden parachute support

Ordering Information – Sensor

Final Assembly Part Number Structure

Probe Length

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

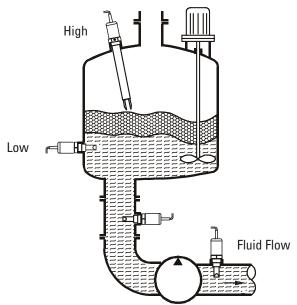
Output

- 2 2-Wire AC
- 3 3-Wire DC NPN/PNP

Process Connection

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

Product Use



The Next Level

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