

MODEL VHL



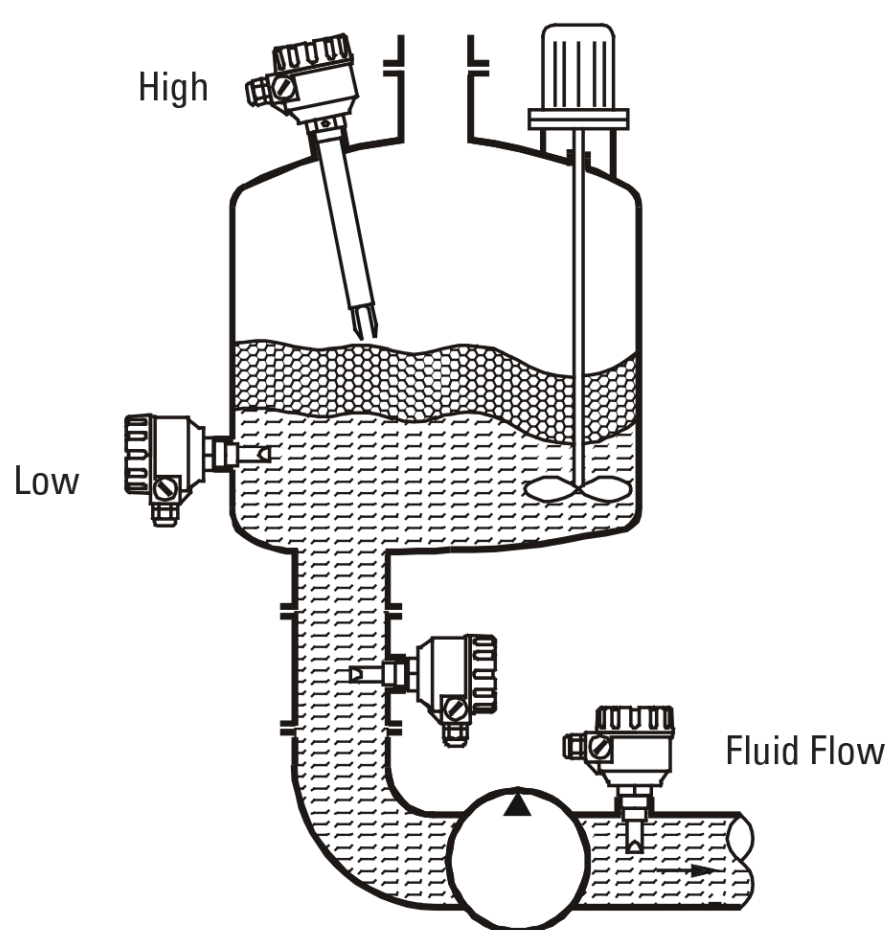
Vibrating Fork Point Level Sensor for Liquids

The Model VHL is a liquid level sensor that is economical and very reliable.



ABOUT

The Model VHL is a vibrating fork level detection sensor with a relay output, ideal for high, low and intermediate level detection and control of a wide range of liquid and slurry material. This device uses piezoelectric and solid-state electronics technologies, offering a universal AC/DC power supply, a SPDT relay output and a variety of probe lengths. The Model VHL is a liquid level sensor that is economical and very reliable.



- ✓ Polished vibrating fork is standard
- ✓ PFA coated or hygienic extreme-polished fork available
- ✓ Unaffected by dielectric constant, conductivity, viscosity, pressure and temperature
- ✓ Relay output in compact enclosure

- ✓ High process temperature of 266°F (130°C)
- ✓ Short, standard, long and extended probe lengths
- ✓ IP67 (NEMA 6) rated enclosure



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Technical Data

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

Ordering Information

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

Process Connection
1 – 1" NPT

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 Models Available

- 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



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