

Vibrating Fork Level Switch



VIBRATING FORK Level Switch is specially designed for detecting maximum and minimum level in silo's filled with free-flowing solids, food grains, granules, powders etc. It can be used for detecting the level of material having overall size less than 15 mm. Variation of electrical parameters of the service material such as conductivity and dielectric constant do not affect its operation.

Silent Features :

- Compact size with integral electronics.
- No calibration required, so plug and play device.
- No moving parts. Minimum maintenance.
- Universal Power supply for AC / DC operation.
- Field Selectable fail-safe mode.
- LED indicators for status, alarm and normal operation.
- Selectable Density setting and switching delay.

Principle & Operation :

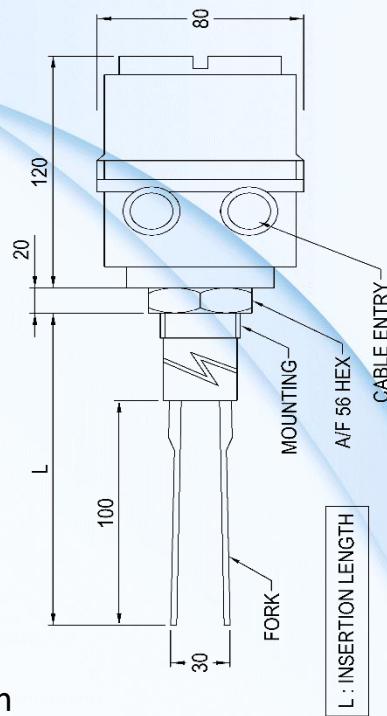
The Vibrating Fork is kept vibrating at its mechanical resonant frequency by Piezo elements. When the service material covers the tines, it resists its movement and so the vibrations are damped. The stopped vibrations is sensed electrically and the signal is processed to signal an alarm and or control a relay. The relay contacts can be used to control the feed motor or evacuation valve etc.

Technical Specifications :

Power Supply	24 VDC / 230 VAC (Factory Selectable)
Power Consumption	3VA Max.
O/P Contact Rating	5A,230VAC DPDT Relay
Resonant frequency	120 Hz
Sensitivity	Field selectable for Low, medium and High-density liquids.
LED Indication	LED Indication for Normal Running & Alarm condition.
Operating Temperature	-10 to 180°C
Operating Pressure	10 Bar
Probe Length	Std. 100 mm / Extra as per requirement.
Fork MOC	SS 316
Process Conn. Type	Standard 1 BSP Male
Process Conn. MOC	SS 304

Applications :

Food Grains, Coffee -Beans, Soya/ Zinc Sulphate / Pesticide Powder, Powder dyes, Bentonite, Lime, Powders and granules of plastic, silica, sand, cement, chalk, pulverized coal, PET, Food grains, minerals, animal feed, Sugar & wood chips etc.



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1. Length in mm

2. System Type

Integral I

Remote R

3. Construction Type

Standard S

Flexible R

4. Probe Material

SS304 4

SS 316 6

PTFE Coated 7

Other O

5. Probe Encl x Control Unit Encl

Cast Al WP IP66 W

Cast Al WP IP66 X Cast Al WP IP66 Y

Cast Al Ex-Proof X Cast Al WP IP66 X

6. Process Connection

Threaded 1 1/2" BSP Male S

Flanged 2" ASA150# R

Other O

7. Standoff Material

Without W

CS C

SS 304 S

