VIBROSENSE-D



COMPACT VIBRATING ROD POINT LEVEL SWITCH FOR SOLIDS

VIBROSENSE is a single element vibrating rod specially designed for detecting maximum and minimum level in vessels filled with free flowing fine-grained or powdery material. VIBROSENSE being a single element device, it overcomes the limitation of material getting stuck inbetween the tines of a vibrating fork wherein both the tines are exposed to the service material. VIBROSENSE can be used for detecting the level of service material having grain size less than 10mm. Variation of electrical parameters of the service material such as conductivity and dielectric constant do not affect its operation. It can be used successfully for level detection of powders and granules of plastic, silica, sand, cement, chalk, pulverized coal, PET, Food grains, minerals, animal feed, Sugar & wood chips etc.



The sense rod is kept vibrating at its mechanical resonant frequency by Piezo electric elements. When the service material covers the rod it resists its movement and so the vibrations are damped. The stoppage of vibrations is sensed electrically and processed to signal an alarm and or control a relay. The relay contacts in turn can be used to control the feed motor or evacuation valve of the vessel.



SALIENT FEATURES

- Compact size with integral electronics
- No calibration required so plug and play
- No moving parts so no wear and tear
- Single element exposed to media for reliable sensing
- Open collector PNP output for external relay operation or for input to PLC
- IP 68 ingress protection
- Selectable fail safe mode
- LED indicators for status, alarm and normal operation

TECHNICAL SPECIFICATIONS

Housing

TYPE

Probe length

Cable connection

Mounting arrangement Screwed

Flanged

Mounting / Pipe extension M.O.C.

Sensing vibrating Rod

Power supply

Power consumption

Output

Resonant frequency of rod

Failsafe condition

Indication

mulcation

Process Temperature
Ambient Temperature

Process Pressure

Ingress Protection

: Ss316

: Electronics integral with probe

: 250 to 2000 mm max

: plug-in DIN connector PG9

: 1 ½" BSP / NPT/ SS316 /304 as required

: 2" ASA/ANSI /SS316 /SS304/MS as required

: MS / GI / SS304 / SS316 as per requirement

: SS316

: 15 to 30 V DC

: 3 VA Max.

: open collector PNP output as standard, current

limited to 100ma

: 315 Hz approx.

: High / Low field selectable.

: By LEDs, Yellow for status, Blue for Normal, and Red

Alarm

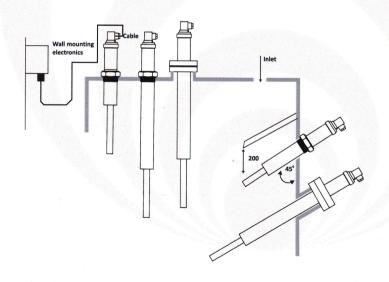
: Up to 150 deg C standard, 200 deg C on request

: -20 to 60 deg C

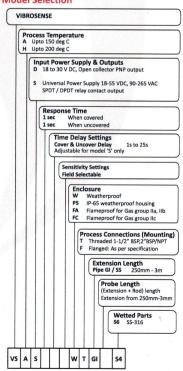
: 16 Bars

: IP68

TYPICAL INSTALLATIONS



Model Selection



NB: Specifications liable to change without notice in lieu of product improvement or up gradation



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