

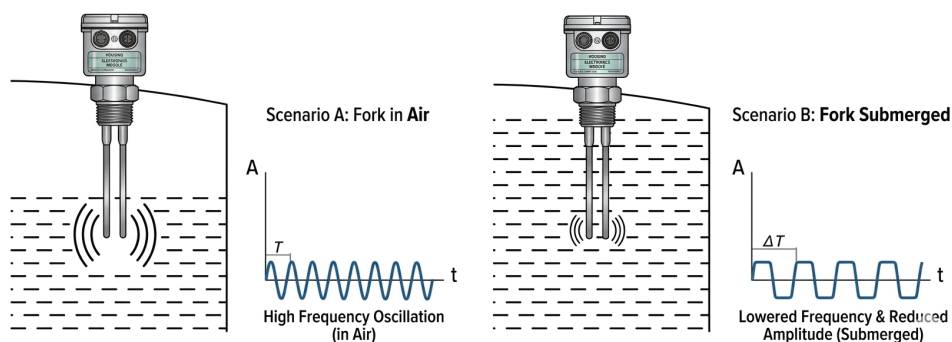
Technical Information: 1

Liquipoint - Vibrating point level switch for liquids

Measuring Principle and Applications

Liquipoint is a point level sensor with tuning fork for point level detection. It is designed for industrial use in all areas of process technology, but preferably in liquids. The vibrating element (tuning fork) is piezo-electrically energized and vibrates at its mechanical resonance frequency. The piezo elements are mechanically fixed and are hence not subject to temperature shock limitations. If the vibrating element is submerged in the product, the vibrating frequency changes. This change is detected by the integrated electronics module and converted into a switching command.

Typical applications are overflow and dry run protection. Thanks to its simple and robust measuring system, liquipoint is virtually unaffected by the chemical and physical properties of the liquid.



Your Benefits

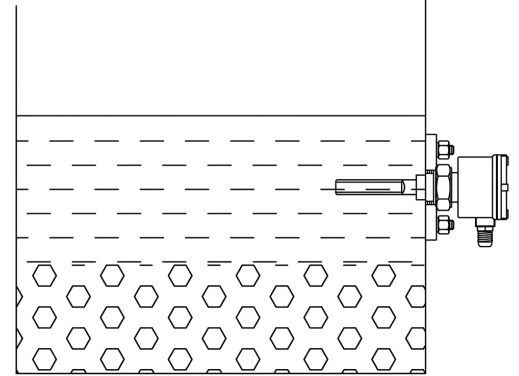
- Fast switching response
- Very compact fork length (100mm)
- No calibration required
- Available with Minimum 1" screwed mounting
- No mechanically moving parts
- Insensitive to external vibrations and buildup
- Configurable viscosity setting and switching delay
- Selectable fail safe mode
- Also works in higher viscous mediums, e.g. tomato ketchup

Typical Applications

- Water
- Liquid Soap
- Ketchup
- Juices
- Cream
- Paints
- Cough syrup
- Milk
- Epoxy resin
- Sugar syrup
- Vegetable oil
- Solvents
- Honey
- Shampoo
- Gasoline
- Beer&wine

Detection of solid substances under liquids

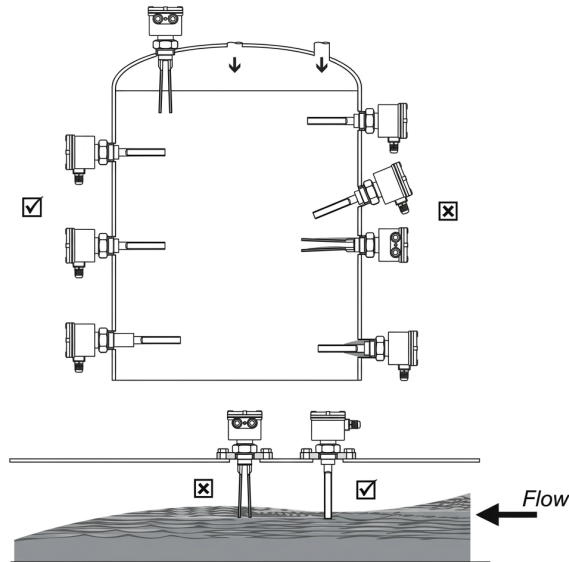
Liquipoint robust design and high sensitivity make them perfect for a wide range of applications, from free flowing liquids to highly viscous liquids, liquipoint can also detect solids beneath liquids, using sensitivity selection pot. Typical applications for this include detecting rice underwater, detecting salt underwater in salt saturators, detecting plastic chips underwater etc.



Technical Specifications

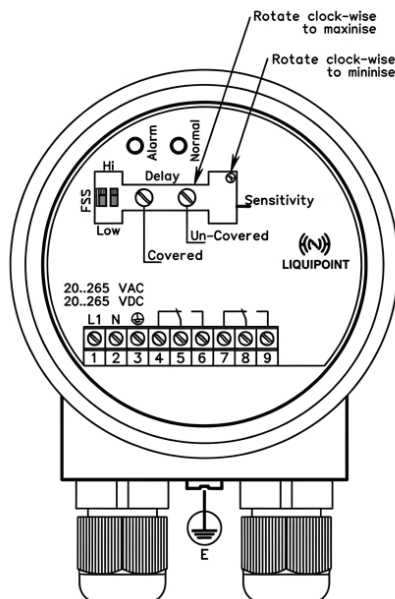
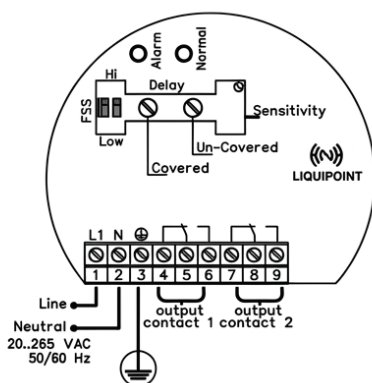
Specification	Description
Enclosure Cast	Cast Aluminium, IP 66/67
Electrical Connections	M20 X 1.5, (PVC & Brass)
Power Supply	Universal - 20 to 265 VAC/VDC with Reverse Polarity Protection in DC
Display	Red - Alarm, Blue - Normal
Relay Type	Potential Free, Suitable for 5A load Max.
Power Consumption	Less than 100mA
Output	DPDT, 5A Max. each contact for AC
Switching Delay	Covered - 0 to 25 sec. Uncovered - 0 to 25 sec.
Fail-safe Settings	High/Low selectable on field
Ambient Temperature	-20°C to +80°C
Process Temperature	-20°C to +200°C
Process Connections	Threaded - 1", 1-1/4", 1-1/2", 2" BSP/NPT Flange - ANSI/ASA/DIN/JIS
Probe Length	130mm to 3000mm
Extension Material	SS 304, SS 316, PTFE Coated
Material Wetted Parts	SS 316 as Standard
Measuring Frequency	Standard fork: ~350-390Hz (in air)
Min. Product Density	10,000 cP, for higher viscous mediums available on request

Installation instructions

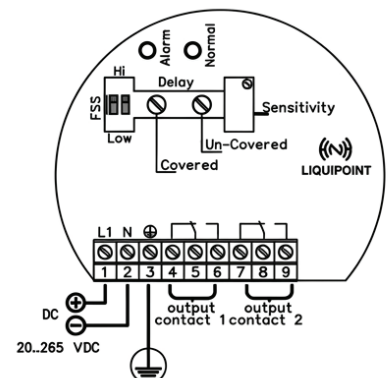


Electrical Connections

electrical connections (AC)



electrical connections (DC)



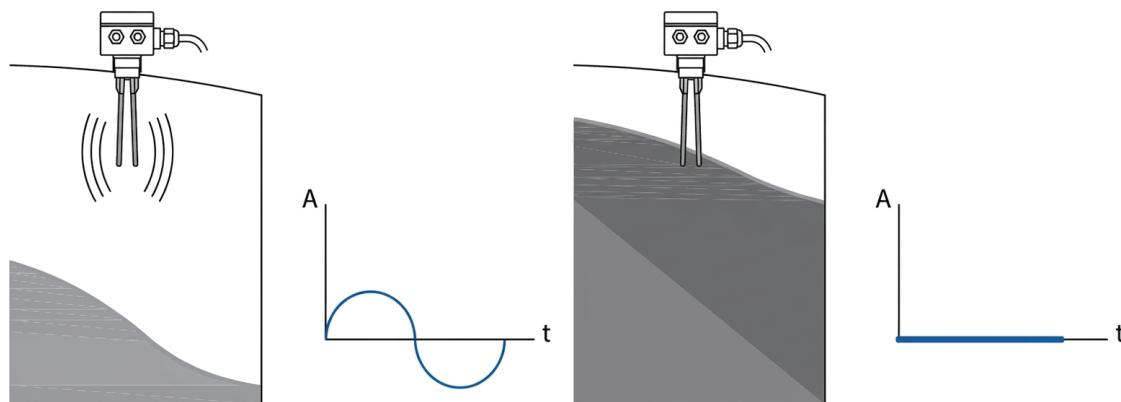
Technical Information: 2

Solipoint – Vibrating point level switch for fine-grained bulk solids

Measuring Principle and Applications

Solipoint is a robust point level switch for silos with fine-grained bulk solids and free flowing powders and detects reliably and accurately when a point level is reached. The rugged design is ideal for coarse products and can be used under heavier loading conditions than a vibrating rod device e.g. Grain, fine aggregates and heavy powders such as cement.

A piezoelectric crystal is used within the probe to force the blade to oscillate at its fundamental frequency (natural resonance). When the blades come into contact with the process medium, the natural frequency of oscillation is damped; the electronics sense the change in frequency which causes the unit to switch. Different electronic outputs allow the user to switch a load on/off or to interface directly with a computer. The switch is only sensitive at the tip, so minimising the effect of build-up on tank walls.



Your Benefits

- Fast switching response
- Very compact fork length (100mm)
- No calibration required
- Available with Minimum 1" screwed mounting
- No mechanically moving parts
- Insensitive to external vibrations and buildup
- Configurable viscosity setting and switching delay
- Selectable fail safe mode

Typical Applications

- Grains
- Spices
- Powdered Milk
- Coffee Beans
- Cement
- Cocoa
- Detergents
- Gypsum
- Cereals
- Sugar
- Dye powder
- Plastic
- Granules
- Flour
- Animal Feed
- Chalk
- Fly Ash
- Plastic Granules
- Foundry Sand

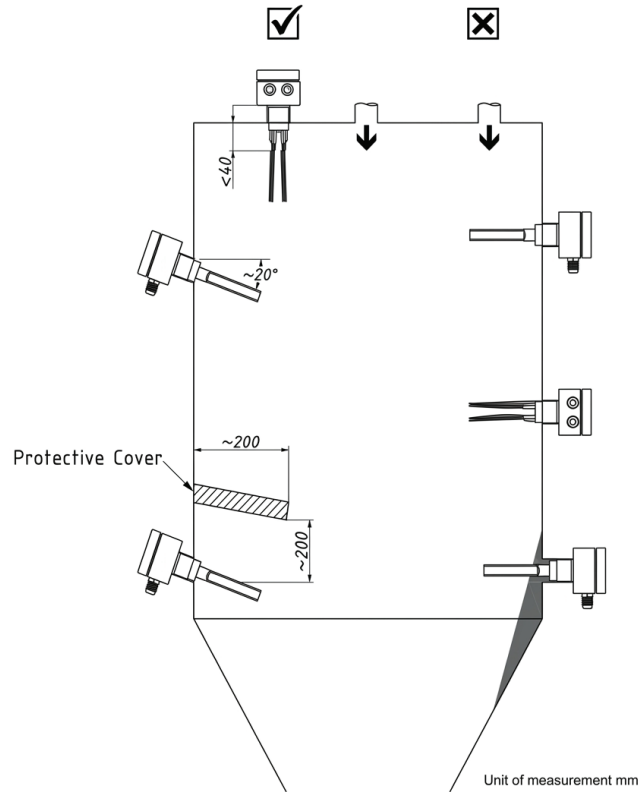


VIBRATING FORK LEVEL SWITCH

Technical Specifications

Specification	Description
Enclosure Cast	Cast Aluminium, IP 66/67
Electrical Connections	M20 X 1.5, (PVC & Brass)
Power Supply	Universal - 20 to 265 VAC/VDC with Reverse Polarity Protection in DC
Display	Red - Alarm, Blue - Normal
Relay Type	Potential Free, Suitable for 5A load Max.
Power Consumption	Less than 100mA
Output	DPDT, 5A Max. each contact for AC
Switching Delay	Covered - 0 to 25 sec. Uncovered - 0 to 25 sec.
Fail-safe Settings	High/Low selectable on field
Ambient Temperature	-20°C to +80°C
Process Temperature	-20°C to +200°C
Process Connections	Threaded - 1", 1-1/4", 1-1/2", 2" BSP/NPT Flange - ANSI/ASA/DIN/JIS
Probe Length	140mm to 3000mm
Extension Material	GI, SS 304, SS 316
Material Wetted Parts	SS 316 as Standard
Measuring Frequency	Standard fork: ~350-390Hz (in air)
Min. Product Density	200 gram/litre

Installation instructions



Electrical Connections

