

VIBRATING FORK LEVEL SWITCH FOR LIQUIDS- VFSL

It is a single point level switch based on piezo driven vibrating fork technology, suitable for detection of free flowing liquids/ slurry in tanks.



- Self-clean probe, no build-up due to vibration technology
- · Unaffected by variation in density, conductivity & dielectric constant
- Site selectable fail safe high/ low mode
- Sensitivity adjustment for viSite Selectable scous liquids
- Adjustable switching delay for turbulent/splashing applications
- Sanitary finish with Triclover Ferrule for hygienic applications
- Ex-proof /ATEX enclosure for hazardous area applications
- Choice of Integral (I) or Two Part System (T)

Flanged x Extd. Length (SS PTFE Ctd.)

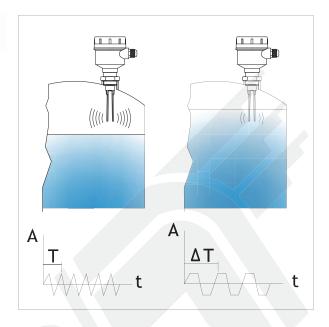
Integral System



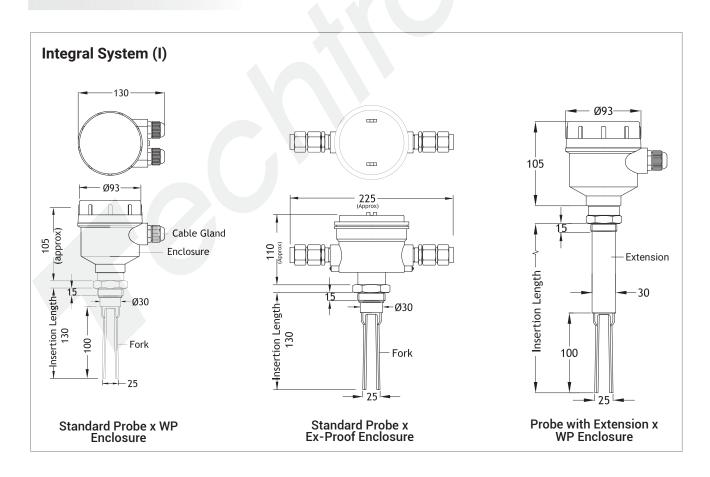
CONSTRUCTION AND OPERATION

Available as Integral (I) or Two Part system (T). In the integral system, the controller is integral with the probe. In two- part system, the controller is separate from the probe.

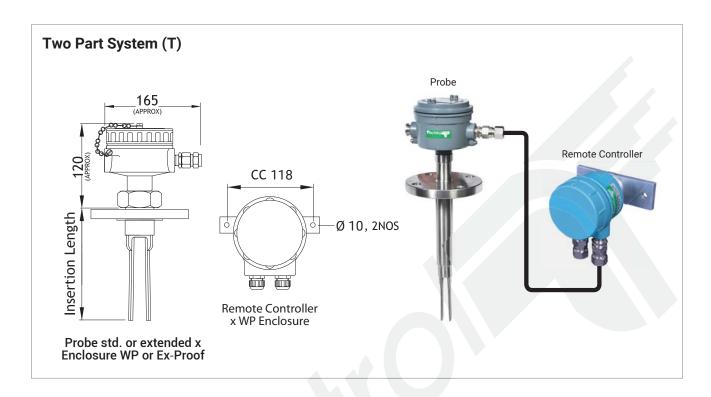
An enclosure housing electronics is fitted at top of the vibrating fork. The fork vibrates in air at its resonance frequency through piezo electric crystal, which gets damped when it is covered with liquid. This is sensed by the electronics causing changeover of relay contacts which is further used to operate auxiliary devices.



SCHEMATIC DIAGRAMS



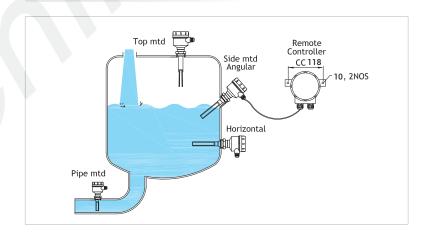




TERMINATION



INSTALLATION



SERVICES AND APPLICATIONS

Level Detection of Free Flowing Liquids like Water, Effluent, Milk, Vegetable Oil, Beer, Wine, Juice, Ketchup, Cough Syrup, Cream, Liquid Soap, Shampoo, Epoxy Resin, Paints, Solvents, Fuel, Diesel, Brine, Free Flowing Slurry, Wet Paddy Under Water.

Overfill or Dry run protection, Flow/no-flow detection in pipe line.

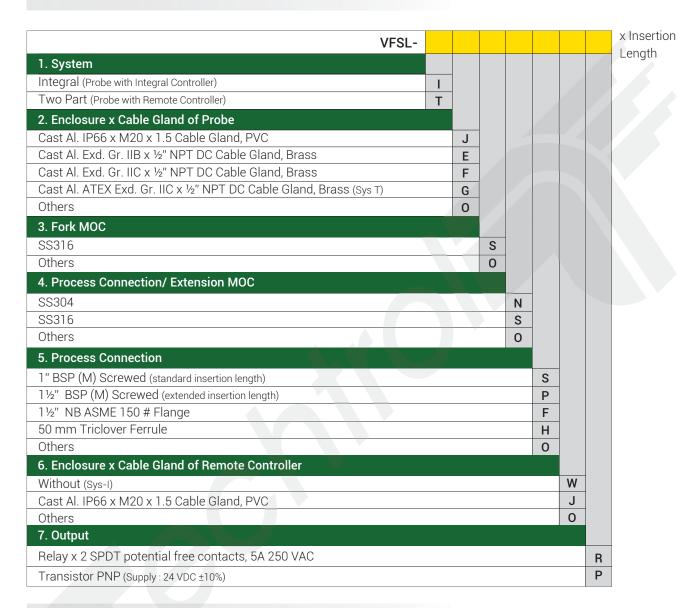


SPECIFICATIONS

PROBE	System		Integral System (I) (Probe with Integral Controller)	Two-Part System (T) (Probe with Remote Controller)	
	Enclosure	a. b.	Cast Al. IP66 Cast Al. Exd Gr. IIB / IIC T6, IP66	Cast Al. IP66 Cast Al. Exd Gr. IIB / IIC T6, IP66 Cast Al. ATEX Exd Gr. IIC T6, IP66	
	Conduit Connection	a. b.	M20 (WP) ½" NPT (Ex-proof)		
	Cable Gland	a. b.	M20 x 1.5 Cable Gland, PVC (WP) ½" NPT DC Cable Gland, Brass (Ex-proof)		
	Fork MOC	a. b.	SS316 as standard SS316L or PTFE coated SS316 available optionally		
	Std. Insertion Length		130 mm		
	Max. Insertion Length		upto 3000 mm with extension		
	Extension MOC	a. b.	SS304 or SS316 (as standard) SS316L or PTFE coated SS316 (option on	request)	
	Process Conn. MOC	a. b.	SS304, SS316 (as standard) SS316L, PTFE coated SS316 Flange only (option on request)		
	Process Connection		1" BSP or NPT (M) or 1½" NB Flange 150# (standard insertion length) 1½" BSP or NPT (M) or 1½" NB Flange 150# (extended insertion length) 50 mm Triclover Ferrule (optional)		
	Measuring Frequency		350 to 390 Hz		
	Max. Liquid Viscosity		10,000 CP		
	Temperature		-10 to 150 °C, 120 °C (PTFE ctd. SS)		
	Max. Pressure		Vacuum to 10 kg/cm² (High pressure option on demand)		

CONTROLLER	Enclosure (Remote)	NA	Cast Al. IP66	
	Conduit Conn. (Remote)	NA	M20	
	Cable Gland (Remote)	NA	M20 x 1.5 Cable Gland, PVC	
	Supply	20 to 265 VAC/DC		
		24 VDC ±10% (for PNP O/P) (Reverse protection for DC supply)		
	Output 1. 2.	Relay x 2 SPDT, potential free contacts, 5A, 250 VAC (resistive load)		
		Transistor PNP, non- isolated, load 180 mA maximum		
	Indication LED	Blue – Normal, Red – Alarm		
	Adjustable Switching	Covered - 5 to 20 sec,		
	Delay	Uncovered - 5 to 20 sec		
	Sensitivity Adjustment	For viscous liquids through trim pot		
	Fail Safe Operation	High or low selectable through DIP switch		
	Power Consumption <100 mA			
	Amb. Temperature	-10 to 60°C		
	Humidity	95% Rh Non- condensing		
	Interconnecting cable	NA	3 core x 1.5 mm ² PVC insulation (Buyer's Scope)	

MODEL IDENTIFICATION



ORDERING INFORMATION

Model Number x Probe Length (mm) x Liquid x Viscosity x Operating Temperature & Pressure.

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