

VIBRATING FORK LEVEL LIMIT SWITCH FOR LIQUIDS LEVTESTER FLUIDOFORK SLF ...Series



SALIENT FEATURES

- No moving parts, no wear and tear.
- Operates reliably in viscous liquids.
- Not affected by streams, turbulence, floating particles and gas bubbles.
- Operation is independent of electrical properties of the material.
- Can be installed quickly in small entries, pipes and mixing tanks.
- Installation is independent of position.
- No adjustment required, therefore fast commissioning.

VARIETY OF CONTROL FUNCTIONS AND VERSIONS AVAILABLE

- Single-point control.
- Adjustable switching delay for fork covered/uncovered.
- Electronics integral with fork.
- Electronics remote, wall/back panel mounting.
- Flame-proof version for hazardous areas.
- Adjustable insertion length version.

APPLICATIONS

Fluidofork can be used for all types of liquids in storage tanks, mixing tanks and pipe lines having Temperature between -20°C and $+80^{\circ}\text{C}$ (Standard Version), Viscosity upto 10,000 cP, Density greater than 0.7 gm/c.c. Fluidofork is suitable for most of the applications, where float switches were previously used and for liquids, which are sticky, corrosive, agitated, splashing and foaming.

USAGE

Levtester SLF... series of level switches are successfully used in processing plants for liquids having viscosity upto 10,000 cP in Food, Power, Chemicals, Sugar, Detergents, Steel, Minerals, Textiles etc. It has also replaced the float operated switches in some of the applications. It is also not affected by electrical properties of the service material.



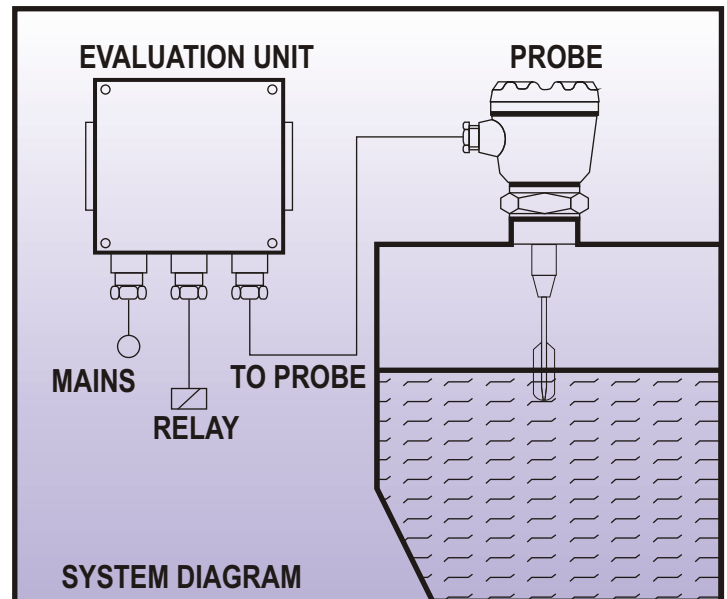
PRINCIPLE OF OPERATION

A specially shaped tuning fork is kept vibrating by piezo-electric elements. The frequency of the fork changes when the tines are immersed in the liquid. The change in the frequency is detected and used for switching a relay. The output contacts of the relay can in turn be used for annunciation or control.

TECHNICAL DATA :

EVALUATION UNIT

Housing	: Cast aluminium, Weather-proof (IP-67) Stoving enamel painted, suitable for back panel/wall mounting.
Cable Entries	: 3 Nos. of 1/2" BSP
Mains	: 110 or 230 V AC (-15% to +10%) 50 Hz (as specified in order).
Relay Output	: One set of potential free change over contacts rated at 6A 230V AC, 50Hz for non-inductive load.
Power Consumption	: 5 VA approx.
Response Time	: 0.5 sec. approx.
Operating Temp.	: -20°C to +60°C
Fail-Safe Mode	: High or Low field selectable.
PROBE	
Tuning Fork	: Stainless steel-316
Mounting	: 1" or 1 1/2" BSP screwed (Flanged mounting on request). 1 1/2" BSP for High Temperature version.
Extension	: Stainless Steel pipe.
Probe Length	: Min. 128 mm, max. 3000 mm.
Operating Temperature	: -20 °C to + 80 °C. Standard models (high Temp. models upto 200°C are also available.)
Viscosity	: Upto 10000 cP.
Density	: Greater than 0.7gm/cc.



MODEL SELECTION

SLF.....Series

ELECTRONICS

- 1 - SINGLE-RELAY
- 2 - DOUBLE-RELAY
- 3 - SINGLE RELAY WITH TIME DELAY
- 6 - TWO RELAYS WITH TIME DELAY

MODEL

- 30 - INTEGRAL (ELECTRONICS INTEGRAL WITH PROBE)
- 20 - REMOTE
- 10 - SPLIT (DC-TRANSMISSION)

TEMPERATURE

- S - SUITABLE UPTO 80°C
- H - SUITABLE UPTO 200°C

ENCLOSURE

- W - WEATHER PROOF
- P - ONLY PROBE HEAD FLAME-PROOF SUITABLE FOR GROUP IIA & IIB
- F - FLAME-PROOF VERSION (BOTH ELECTRONICS AND PROBE HEAD IN SEPARATE MODEL) SUITABLE FOR GAS GROUP IIA & IIB.

MOUNTING ARRANGEMENT

- T - THREADED, 1" BSP
- F - FLANGED 2" ANSI, 10MM THICK
- O - OTHERS (SPECIFY SIZE & RATING)*

MOUNTING/WETTED PART MATERIAL

- MS - MS (ELECTROPLATED)
- S4 - S S 304
- S6 - S S 316
- SL - S S 316 L
- HC - HAST ALLOY C
- PC - PTFE COATED (ANTICORROSIVE)

SLF 1 30 S W T MS (Example)

Probe Length required -(From 128 mm to 3500mm)

*Specify Size& Type (NPT, ANSI, DIN, JIS, SMS or Other) with Rating

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