

The Need For Every  
Process Industry

**SPINK CONTROLS**®

An ISO 9001:2015 Certified Company



## VIBRATING FORK LEVEL SWITCH

**MODEL: SC / L - 600**

**LEVEL**

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## PRINCIPLE OF OPERATIONS



The electronically stimulated fork vibrates at its mechanical resonance frequency of about 400 Hz when the fork is free of the service material. The resonance is caused by the piezoelectric crystals. One of the piezo crystals produces a small voltage which is transmitted to the switching amplifier. If the fork is covered by the bulk material, a damping effect is produced and the piezo crystal does not produce the voltage and the amplifier will switch and a corresponding signal output is actuated. The vibration of the fork has self-cleaning properties.

## SALIENT FEATURES

- Fast and Easy Installation.
- No effect of electrical properties of the Service material.
- High Reliability.
- Suitable for the highly dusty environment.
- Field selectable operation logic.
- Can be configured either for High or Low level point switching.
- Provides economical solutions, Various model not required. Reduces the Inventory cost.

## APPLICATIONS

- Most liquids with max 10000 mm<sup>2</sup>/s viscosity.

## MODELS

- SC / L - 601** : 1.8Khz frequency, steel Pipe housing. PNP/NPN DC output
- SC / L - 602** : 1.8Khz frequency, weather proof IP 65 flame proof as per BIS standard vide CIMFRTc/sR/H642 DT16tA2t20 and PESO Certificate No A/P/HQ/MH/104/2738(P302245)

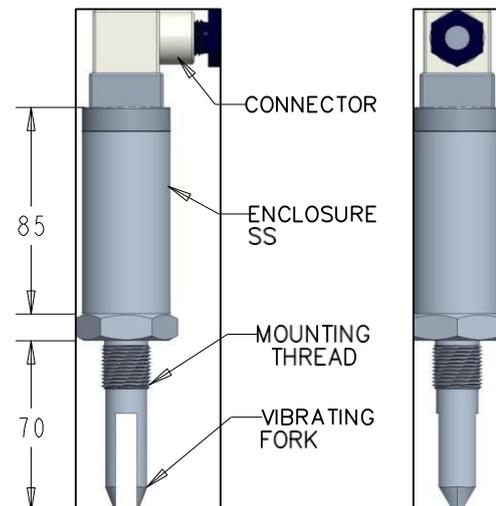


Figure 1 : Vibrating Fork Level Switch (Honeybee)

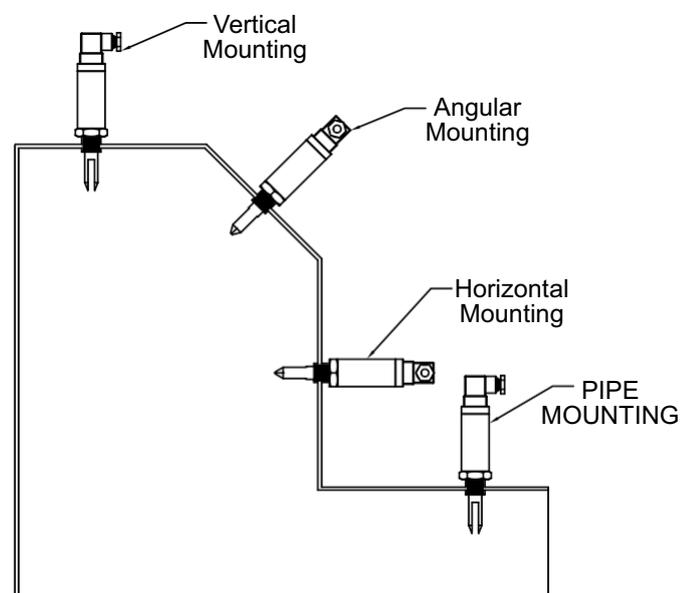


Figure 2 : Mounting Arrangement

## ENGINEERING SPECIFICATION

HOUSING	:	STEEL/ ALUMINUM, WEATHER PROOF, POWDER COATED. INTEGRAL WITH THE PROBE
CABLE ENTRY	:	PG / DIN CONNECTOR
AMBIENT TEMPERATURE	:	0° C TO + 60° C
POWER CONSUMPTION	:	0.3VA
RESPONSE TIME	:	< 2 SECONDS
MAINS VOLTAGE	:	18 TO 30 V DC
OUTPUT	:	PNP/NPN OR DPDT RELAY OUTPUT IN CAST AL HOUSING.
SWITCH STATUS DISPLAY	:	LED FOR NORMAL/ALARM.
MOUNTING	:	SCREWED 1/2" BSP/NPT (STANDARD) OR FLANGED (OPTIONAL)
SENSE	:	FORK, SS316L
LENGTH	:	70mm (STANDARD) OR AS PER REQUIREMENTS
OPERATING TEMPERATURE	:	UP TO 80° C
PRESSURE	:	UP TO 40 BAR (INSIDE VESSEL)

## MODEL SELECTION

Suffix Code	1	2	3	4	5	6	7	Parameters
Model	SC/L-601							Model Selection
	SC/L-602							Model Selection
Enclosure	E1							Stainless steel
	E2							Flameproof
Temperature			T					Standard Temp Up to 80°C
Probe Length				PI				Standard Probe Length 70 mm
Mounting Arrangement					M1			Threaded BSP / NPT
					M2			Flanged ANSI/DIN ; 3 - Others
Wetted Part						W1		SS304
						W2		SS316
						W3		SS316L
						W4		PTFE Line
						W5		Others
Output							O	Open Collector PNP/NPN



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### Plant 1

GALA No. F-4 A WING, UDYOG BHAVAN-2  
ADDITIONAL AMBERNATH, INDUSTRIAL  
AREA, ANAND NAGAR MIDC AMBERNATH,  
THANE 421501

### Plant 2

PLOT No.: MS 114/115, AMBERNATH  
INDUSTRIAL AREA, CHIKHLOLI MIDC,  
AMBERNATH (W) THANE 421501

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