



VIBRATING FORK LEVEL SWITCH (HONEYBEE-7100 SERIES)

PRINCIPAL

The electronically stimulated fork vibrates at its mechanically 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.

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 mm²/s viscosity.

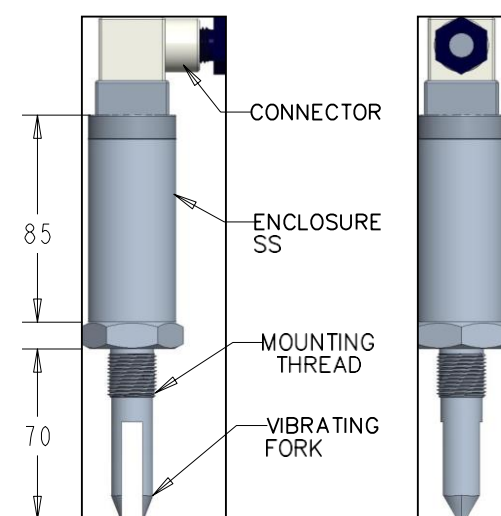


Figure 1 : Vibrating Fork Level Switch (Honeybee)

Models

HONEYBEE 7130 : 1.8Khz frequency, steel Pipe housing. PNP/NPN DC output

HONEYBEE 7110 Ex : 1.8Khz frequency, weather proof
IP 65 flameproof as per
BIS standard vide CIMFRTc/sR/H642 DT16tA2t20
and PESO certificate no
A/P/HQ/MH/104/2738(P302245)

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Technical 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
Mains Voltage	: 18 to 30 V DC
Output	: PNP/NPN
Switch status display	: Green LED shows Normal, Red LED shows alarm.
Mounting	: Screwed 1/2" BSP/NPT (standard) Or Flanged (optional)
Sense	: Fork, SS316L
Length	: 70 mm (standard)
Operating Temp	: Up to 80 Deg
Pressure	: Up to 40 Bar (Inside Vessel)

Model Selection

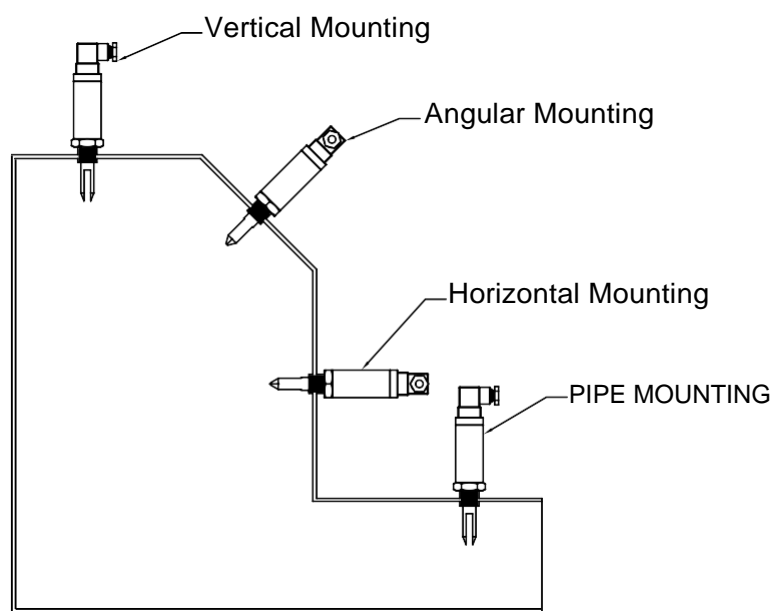
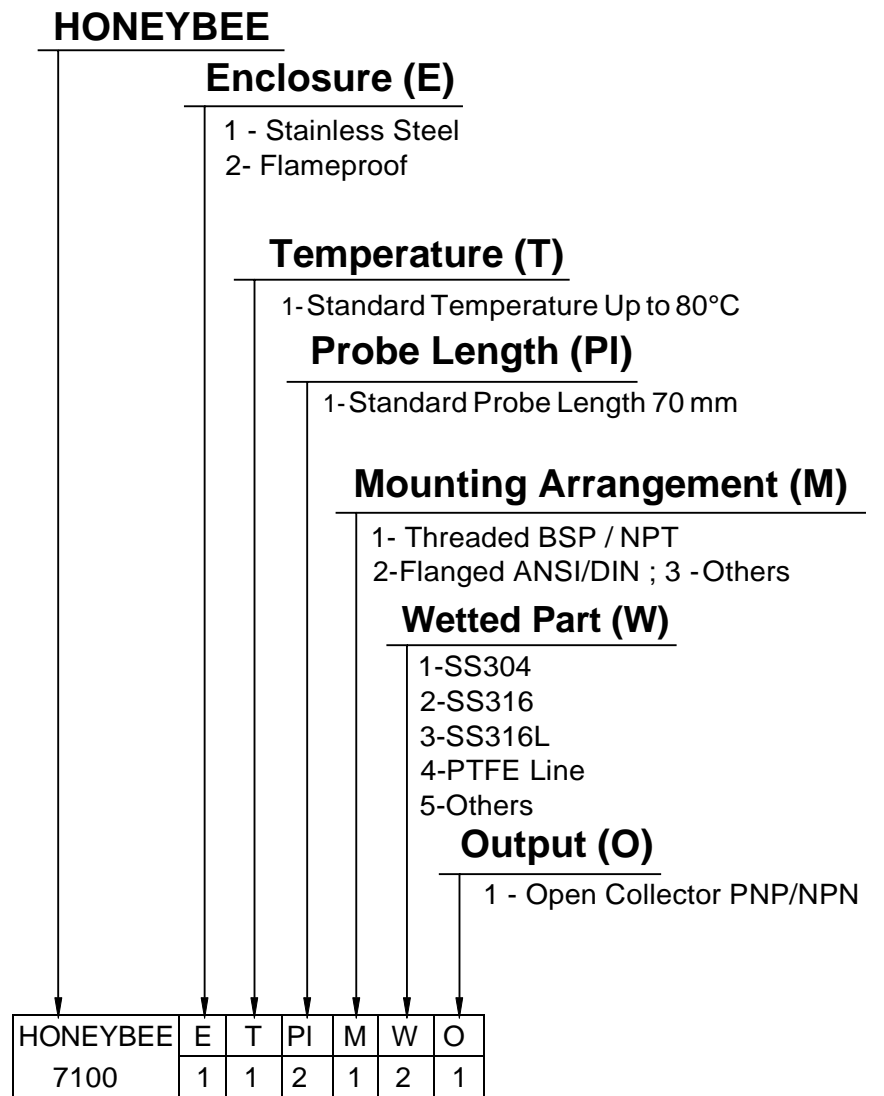


Figure 2 : Mounting Arrangement