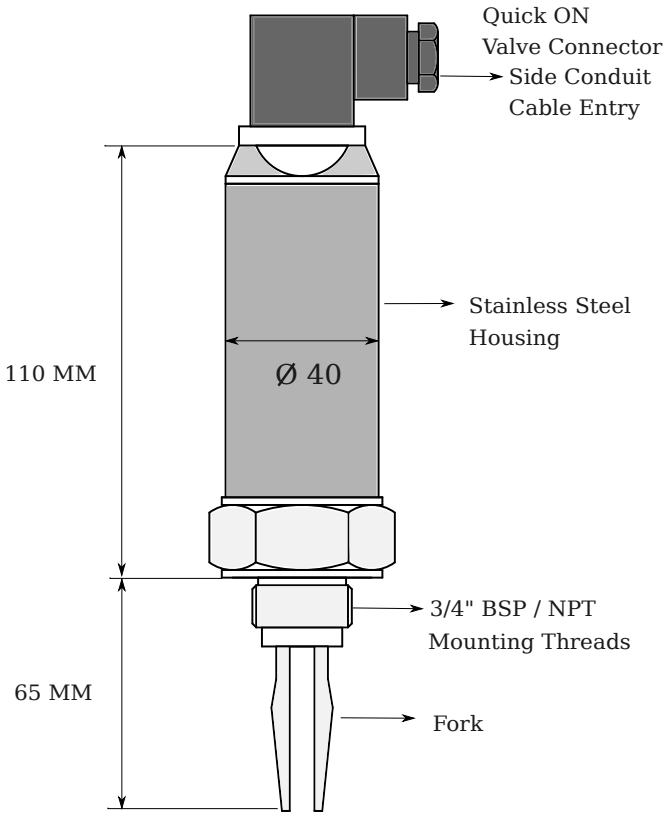
Compact Vibrating Fork Type Level Limit Switch

elicron

Features

- **Power supply**
  11-55 VDC
- **Compact Instrument Size**
  Easy to install.
- **Service friendly plug in connection**
- **Output**
  Open collector PNP
  LED Indication
- **Operational temperature**
  Standard Model upto 80°C
- **Rugged stainless steel housing**
- **Operational Safety, Reliability**
- **No Calibration required**
- **External circuit testing by test magnet**

Various Parts



kinds of liquids and is used in tanks, containers and pipelines. Pipe fork is used in all types of liquids having viscosity upto 10,000 cP & densities greater than or equal to 0.7gm/cc.

Principle

vibration of the fork at its natural frequency. A specially shaped tuning fork is kept vibrating by piezo electric elements. The resonant frequency of the fork changes when the tines are immersed in a fluid. The change in frequency is detected and used for switching. The open collector PNP O/p can be used to energise relay or as input to PLC.

Application

- Pharmaceutical
- Chemicals
- Pesticides
- Edible oil
- Packaging
- Food & Brewery
- Dairy

Resitec - Componentes Industriais, Lda Zona Industrial dos Pousos 2410 - 205 Leiria
www.resitec.pt resitec@resitec.pt T. +351 244 800 070 F. +351 244 800 079

Technical Specification

Mechanical :

Housing	Stainless steel
Mounting	Screw 3/4" BSP/NPT
Cable Entry	PG 11 cable gland
Connector type	Quick ON connector
Dimension	Refer GA Drawing
Fork Length	44 mm
Probe Length	65 mm
SS Housing	Ø 40 mm
Sensing	Resonating fork SS 316

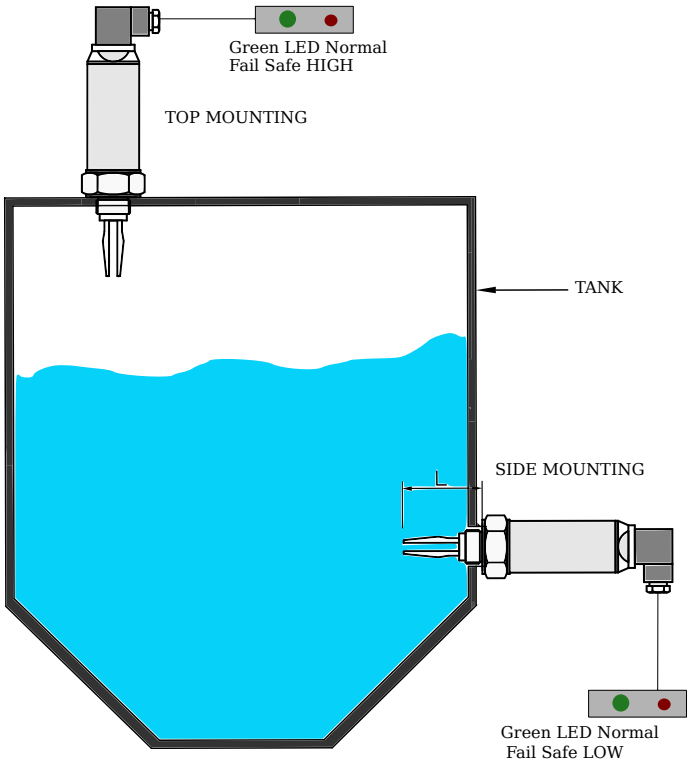
Electrical :

Indication	LED Indication
Power	Green
Switching	Red
Input Supply	11-55 VDC
Output	Switching Open collector PNP
Temperature range	0°C to 60°C (Elctronics) 0°C to 80°C (Material)
Fail Safe	Field Selectable
Minimum	FailSafe Low
Maximum	FailSafe High
Fork Resonance Frequency	1.4 KHZ
Response Time	1 second
Minimum Fluid Density	>0.7gm/cc
Maximum Fluid Viscosity	10,000 cP
Switching Hysteresis	< 3 mm
Power Consumption	185 mWatt @ 24 V DC

Why Elicron

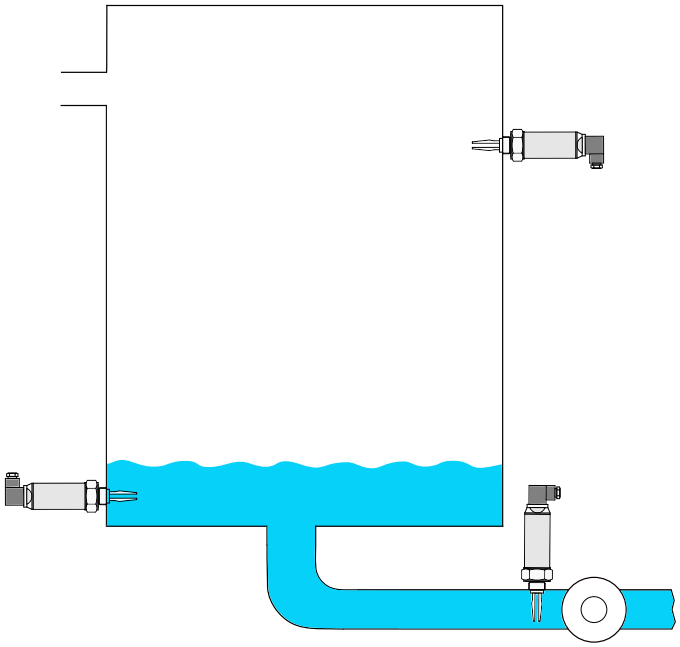
- Prompt and quick delivery
- Customization and new technology
- Complete range of instruments.
- Flexibility and interaction with management.

System Diagram



Application Diagram :

In pipe line



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