

Mini Vibrating Probe Switch

NEW

Theory of Operation

Mini Vibrating Probe Switch operates by using piezoelectric elements built inside the fork that exhibit resonance frequency signal in exchange. Resonance frequency happens when a tank is empty. The frequency of the fork decreases/stops when being immersed; thereafter converted into a switching command.



Product Character

- Small dimension, less space required
- Stainless steel SUS304 housing with SUS316 fork
- Wide range of power supply: 20~250Vac/Vdc (280□ Series)
12~55Vdc(281□ Series)
- LED working status indication
- 3/4" connection
- Measuring density of 0.07g/cm³(Solid)
0.7g/cm³(Liquid)

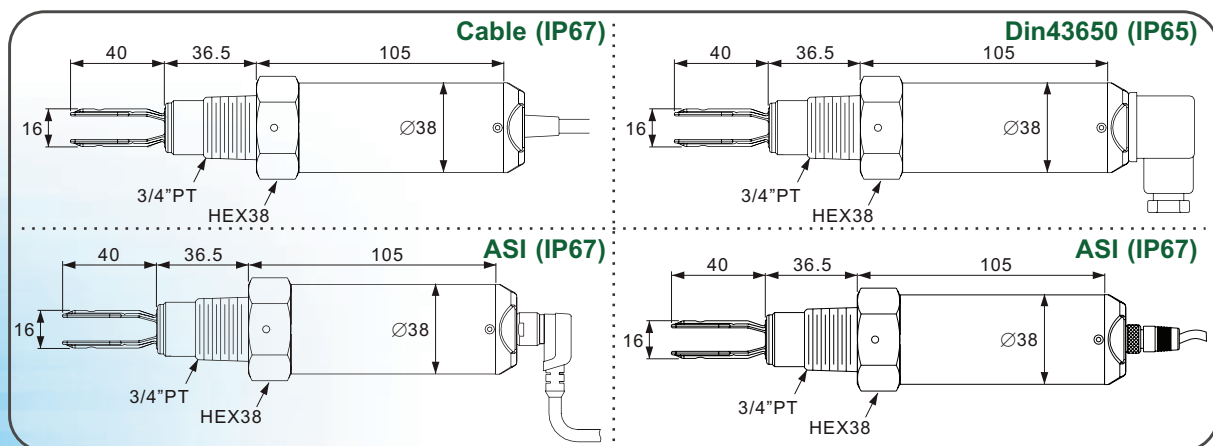
Product Feature

- Low cost
- Easy installation
- Easy connectivity with PLC or IPC
- Offers magnetic testing to diagnose proper functioning.

Product Application

- Level protection
- Pump protection
- High liquid level warning
- Leakage detection
- Motor control

Product Dimension





Product Specification

Supply Voltage & Output	SC280□ :20~250Vac / Vdc 2 wire Contactless electronic switch. SC281□ :12~55 Vdc 3 wire PNP/ NPN Output.
Fork Length	40mm
Ambient Temperature	-40~60°C
Storage Temperature	-40~70°C
Operation Temperature	-40~125°C
Operation Humidity	80% RH non-condensed
Operation Pressure	Maximum 40 Bar
Min. material density sensed / Viscosity	Solid: density:≥0.07g/cm ³ Liquid: density:≥0.7g/cm ³ Viscosity : 1~10000 cSt
Magnetic testing	Output function test performed by putting magnets near the indicated spot
Status indication	Green light: indicate power supply Red light: indicate operating mode
Housing material	SUS 304
Fork Material	316L
IP Protection	IP65 (Din43650), IP67(ASI, Cable)
Connection	3/4" PT
Conduit	Valve plug DIN 43650 Cable connector (1M) ASI

Order Information

SC 28 □ □ 0 - □ C Q

Power supply & Output

- 0: 20~250Vac / Vdc 2 wire Direct load Switching.
- 1: 12~55 Vdc 3 wire PNP/ NPN Output.

Material

- 0: SUS304, 6: SUS316, L: SUS316L

Model

- 0: Standard

Electrical connection

- A: ASI (180°C) B: ASI C: CABLE D: DIN 43650

Connection

- | | | | | | |
|-------------------|-----------------|-----------------|-------------------------|--------------------------|-------------|
| C---3/4"(25A)std. | D---1"(25A) | E---1-1/2"(40A) | M---5kg/cm ² | N---10kg/cm ² | O---150 Lbs |
| F---2"(50A) | G---2-1/2"(65A) | H---3"(80A) | P---300 Lbs | Q---PT | R---PF(G) |
| I---4"(100A) | J---5"(125A) | K---6"(150A) | T---BSP | U---NPT | W---PN10 |
| S---Special | | | X---PN16 | Y---PN25 | Z---PN40 |
| | | | S---Special | | |



FineTek Co., Ltd.

No.16, Tzuchiang St., Tucheng Industrial Park, Taipei Hsien, Taiwan

Tel: 886-2-22696789

Fax: 886-2-22686682

e-mail: info@fine-tek.com

http://www.fine-tek.com

