

Level switch technical detail

LFIA intelligent RF admittance microwave level switch generate Alarm when preset microwave frequency and medium microwave frequency match, Microwave field generate when measuring point inserting few millimeters in to the medium, also its not effect by foam condensate and residue.

also its measuring point has no dead end and is hygienic so level switch is suitable for CIP (Clean-in-Place), WIP (Wash-in-Place) and SIP (Sterilization-in-Place), available with different process connection as per industries requirement, and different temperature version for set up to 200 deg C

Process connection:

Mounting position: Any, top, bottom, side Wetted Part material: PEEK natura,

: 304/316 Stainless Steel

Size:G1/2,

Working Frequency: 40Mhz~170Mhz,

Performance characteristics:

Hysteresis : 3% of Range Repeatability : ±1mm (water)

Response time: 0.3s

Damping : 0~5 adjustable
Delay : 0~10s adjustable,

Power Supply:

Voltage range :12-33VDC

Consumption current(no load): 33 mA

Power-up time: < 3s Reverse protection: Yes

Output:

Output Signal: PNP+NO, PNP+NC,

: NPN+NO, NPN+NC

Voltage drop : PNP: < 1.5V, RLOAD≥2kΩ

NPN: < 1.5V, RLOAD≥2kΩ

Current rating: 100mA

Off leak current: <100uA, max Short circuit protection: Yes



Process conditions:

Process temperature: -40°C to +115 continuously (Tamp< 100 °C)
Process pressure: -1~3bar

Ambient conditions:

Ambient temperature: -40 to +85 °C Storage temperature: -40 to +85 °C Protection grade: Ip68(PEEK part),

: IP66(Cable outlet)

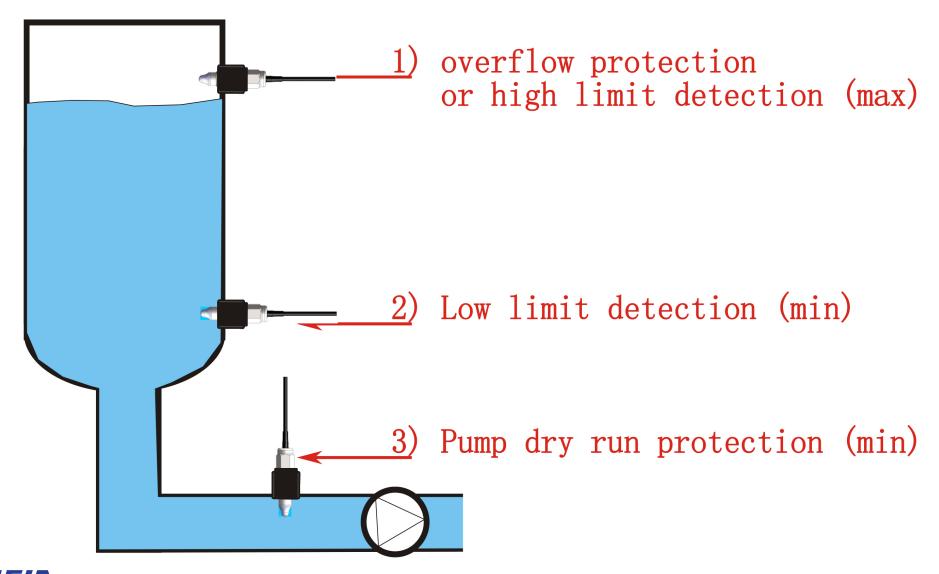
Humidity: < 98%RH, condensing

Special future compare with competitor:

10ms power off interruption not effect level switch stabilize within 0.3s after power off and restart Same working condition radiation level half insulation voltage: 1000 V



Level switch installation drawing



switch detect and control: Water base media, oil base media, powder, granules, jelly, high viscous and pasty media, Food, beverage and pharma base Hygienic liquid, Liquid with foam, Dirty liquid like ETP, HTP, Bio-toilet, gobar (human and animal waste) fuel plant

Low (Min.) and high (max.) level control at tank, mixture, conveyor belt, hopper

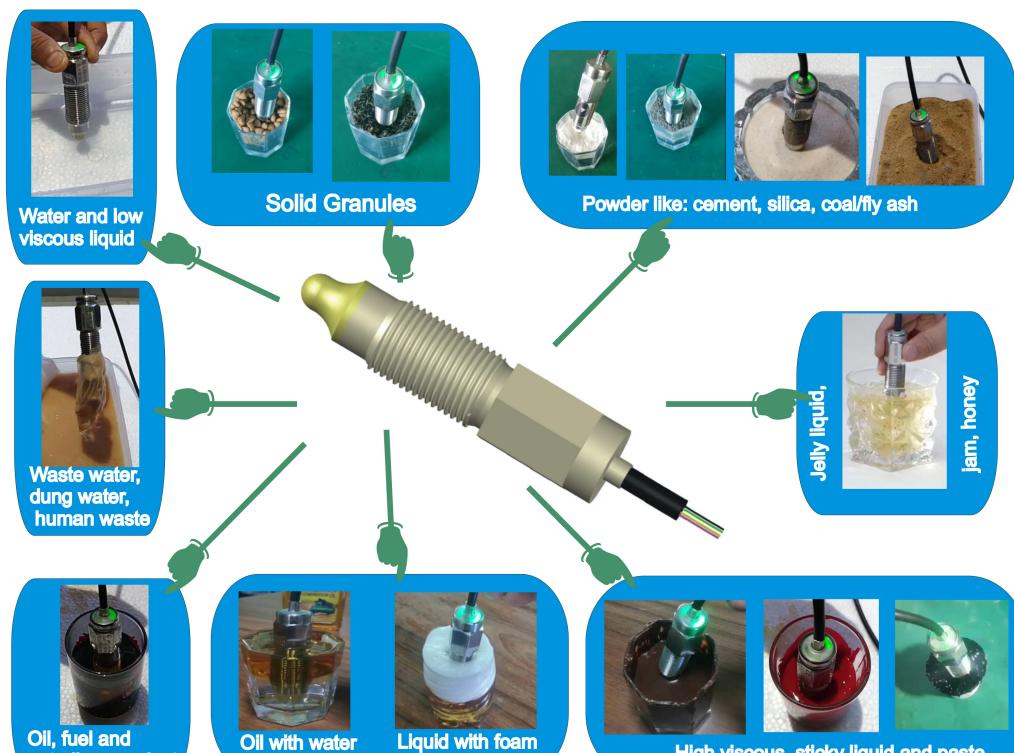
Leakage detection



petrolium product

Level switch Application for all media

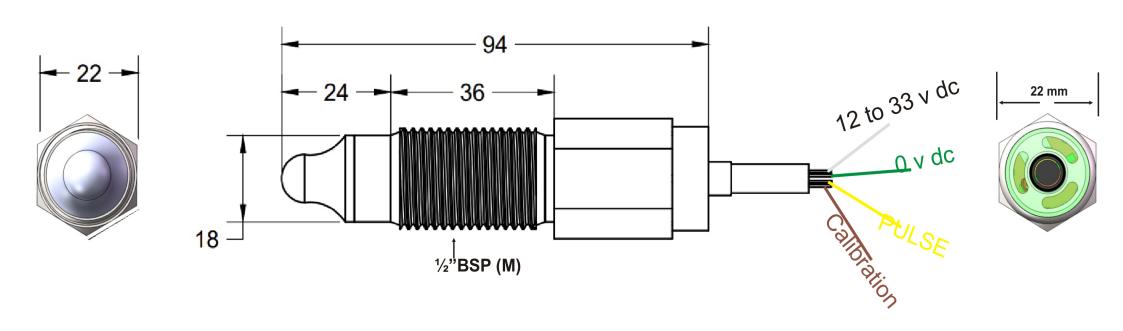
High viscous, sticky liquid and paste



Layer separations detection



Level switch Dimension drawing





Level switch Output diagram

