

Photoelectric Liquid Level Sensor



Greegoo Pipeline Liquid Level Photoelectric Switch SDD-SPX613, a leakage detection sensor, is an amplifier-built-in, conduit-mounted photoelectric liquid level sensor.

Based on the difference in refractive index between liquid and air, when there is no liquid in the tube, the light from the emitter bends along the tube and reaches the receiver. When liquid is present, the light does not enter, enabling detection of liquid presence. It features output switching, adjustable sensitivity, easy installation, and eco-friendly design.

Product Applications



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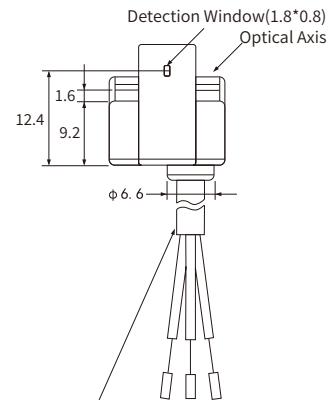
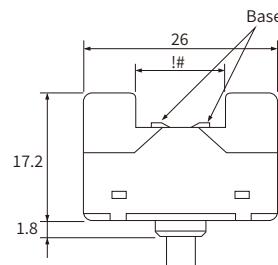
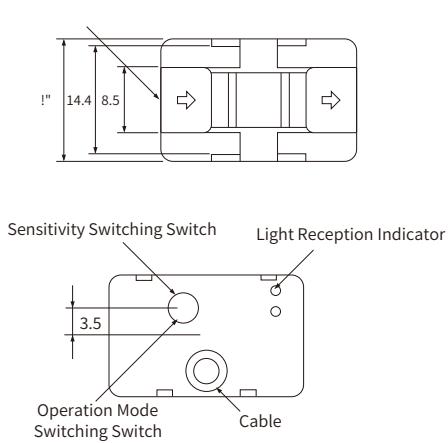
Product Features

- Equipped with output action switching and sensitivity switching functions for easier use.
- One-touch setting for smarter sensor operation.
- Suitable for transparent or semi-transparent conduits with $\phi 6\text{--}13\text{mm}$ diameter and 1mm thickness.
- Uses eco-friendly cables (free from powder release agents).



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Dimension Diagram



Technical Parameters

Name	Technical Parameters
Applicable Tubing	Tubing with diameter 6...13 mm, wall thickness 1 mm, made of FEP or any material transparent like FEP
Sensing Object	Liquid in tubing (Note: High-viscosity liquids or liquids with floating matter may not be detectable)
Light Source	GaAs infrared LED with peak wavelength 940 nm
Indicator	Light Indicator GaP (Red LED: Peak Wavelength 700 nm)
Operating Voltage	12...24 VDC $\pm 10\%$, ripple (pp): max. 5%
Current Consumption	Average: max. 30 mA, Peak: max. 80 mA
Control Output	NPN open collector: Load supply voltage: 5...24 VDC; Load current: max. 100 mA; OFF-state current: max. 0.5 mA Residual voltage: below 0.8 V at 100 mA load current; below 0.4 V at 40 mA load current.
Ambient illuminance	Max. 3,000 LX (when incandescent lamp or sunlight illuminates receiver surface)
Ambient Temperature Range	Operating: -10°C to +55°C; Storage: -25°C to +65°C (no icing or condensation)
Ambient Humidity Range	Operating: 5% to 85%; Storage: 5% to 95% (no condensation)
Vibration Resistance	Endurance: 10...500 Hz, 1.0 mm single amplitude or 150 m/s ² , 3 times each in X, Y, Z directions for 11 min each
Shock Resistance	Destruction: 500 m/s ² , 3 times each in X, Y, Z directions
Ingress Protection	IEC 60529 IP50
Connection Method	Pre-wired (standard length: 1 m)
Weight (packaged)	Approx. 55 g