



Ring-11 Liquid Level Switch

Overview

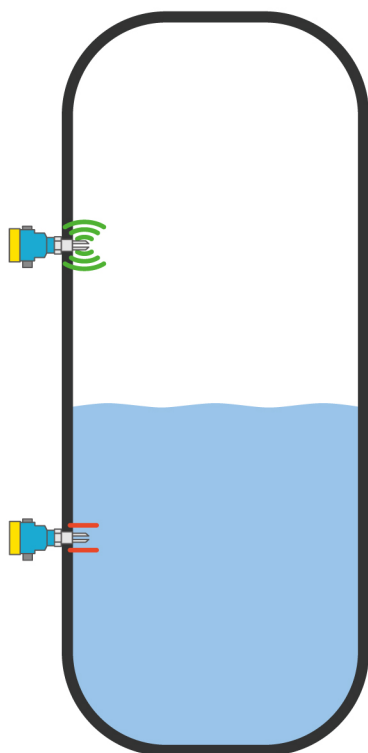
The Ring-11 liquid level switch is China's first SIL2/3-certified level product, also certified with CCC, CE, Gas & Dust explosion-proof, intrinsic safety, and flameproof standards. Its 40mm ultra-short fork, with precision tuning and anti-interference design, ensures accurate liquid level detection, prevents overflow and dry run, and supports pump protection. It remains reliable in turbulence, foam, vibration, and buildup conditions.

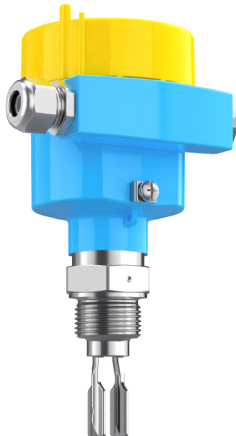


Principle

The Ring-11 tuning fork vibrates at its natural frequency. When submerged or exposed by changing liquid levels, its vibration frequency shifts, indicating the liquid level.

Benefits

- **Unique Design:** Measures ultra-low-density liquids ($\geq 0.5\text{g/cm}^3$), withstands up to 400°C .
- **Reliable in Harsh Conditions:** Unaffected by installation, pressure, temperature, foam, viscosity; ideal for LNG.
- **Flexible Outputs:** Relay, two-wire, NAMUR, transistor.
- **SIL Certified:** SIL2/3, CE, explosion-proof.
- **Food-Grade:** Surface $R_a < 0.5\mu\text{m}$.
- **Gas-tight Lead-Through:** Prevents corrosion and leaks in high-temp, high-pressure environments.



Standard	Corrosion-Resistant	High-Temp & Explosion-Proof
		

Applications	<ul style="list-style-type: none"> Designed for industrial liquid level measurement in pipelines, tanks, and wastewater systems. Explosion-proof for safe use in hazardous areas, ideal for LNG and high-pressure gases. Handles acids, alkalis, and viscous media reliably. Suitable for food, petrochemical, pharmaceutical, and pipeline industries. 		
Measurement Medium	Liquid	Corrosive liquid	High-temperature and high-pressure liquid
Process Temperature	-50 ~ 400°C		
Process Connection	Flange, thread, clamp, customizable		
Housing Material	Aluminum alloy, 316L stainless steel, customizable ^①		
Process Pressure	Atmospheric Pressure, -1~64 bar		
Signal Output	Relay, two-wire, NAMUR, transistor		
Fork Material	316L, 316L coated with Enamel, ECTFE, PFA, Hastelloy C-22, Tantalum, 318S13		
Qualifications & Certifications	<ul style="list-style-type: none"> SIL Qualifications: SIL2 (HFT=0) / SIL3 (HFT=1) Explosion Protection: Explosion-Proof — Ex d IIC T6~T1 Gb Intrinsically Safe — Ex ia IIC T6~T1 Ga Flameproof for Gas and Dust — Ex db IIC T6...T1 Gb + Ex tb IIIC T440°C...T80°C Db CE: LVD Certificate, EMC Certificate Ingress Protection: IP66/IP67 		

Note:

①Food-grade stainless steel, tantalum, Hastelloy, titanium alloy, and other materials support customized housings.