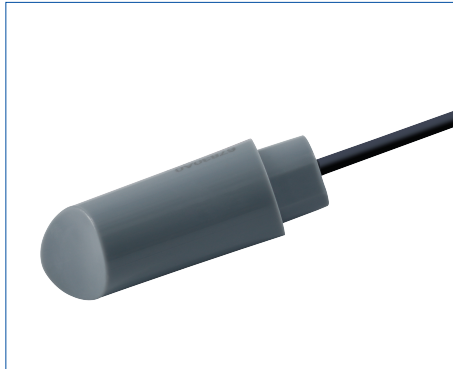
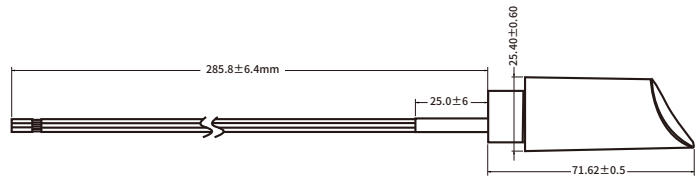


General Specification

Capacitive Level Sensor NO: CP-1003



Dimensions (mm)



Product characteristics

- **Non-contact capacitive sensing technology**
Detects water level through tank walls without direct exposure to liquid, reducing contamination and scaling risk.
- **High sensitivity and stability**
Accurate detection of water presence and level variation, even in detergent-rich or high-temperature environments.
- **Resistant to foam and steam interference**
Optimized signal processing ensures stable performance in demanding wash cycles.
- **No moving parts**
Solid-state design eliminates mechanical wear and enhances long-term reliability.
- **High temperature and humidity tolerance**
Designed for continuous operation in hot wash and rinse conditions.
- **Compact and easy integration**
Suitable for space-constrained commercial appliance designs.
- **Low maintenance and long service life**
Reduced scaling impact compared to mechanical float switches.
- **EMI/EMC resistant design**
Stable operation in electrically noisy commercial kitchen environments.

Applications

- **Commercial Dishwashers & Glass Washers**
Wash tank level monitoring, overflow protection, and heater dry-run prevention in high-temperature, detergent-rich environments.
- **Washing Machines & Laundry Systems**
Precise water level detection for filling control, rinse cycle management, and energy optimization.
- **Water Purifiers & Filtration Systems**
Storage tank level control and overflow management.
- **HVAC & Humidification Systems**
Condensate and reservoir level monitoring for efficient system control.
- **Industrial Fluid Control Systems**
Non-contact level detection in tanks and reservoirs requiring hygienic or sealed sensing solutions.

Product performance characteristics

Characteristics	Parameter	Rating
Electrical Characteristics	Power Requirement	5V DC +/-0.1V
	Output Signal	High - and low - level output
	Detection Object	Tap water
	Detection output level	Output High Level when Detected water out of sensitivity range Vh: 5±0.1V
	Detection output level	Output Low Level when Detected water out of sensitivity range Vl: <=0.5V
	Detection sensitivity	Refer to "The sensitivity test standard diagram"
	Working current	10mA
Mechanical Characteristics	Waterproof level	IP67
	Line length	1 FT
Operating Condition	Temperature of the liquid	0 - 60°C
	Storage temperature	0 - 70°C
	Service	Compatible detection for tap water, Spring water, distilled water

Please contact sales@xintec.hk for latest product details