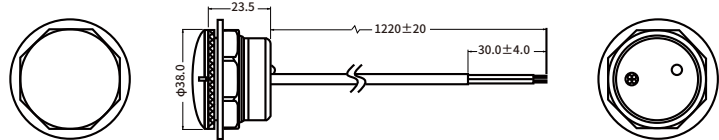


General Specification

Capacitive Level Sensor NO: CP-1002



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.
- **Coffee Machines & Beverage Equipment**
Reservoir level monitoring and low-water protection for safe and continuous operation.
- **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.

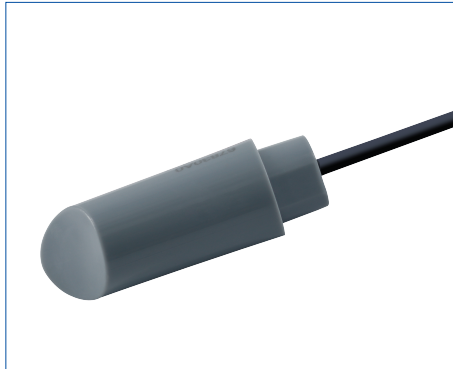
Product performance characteristics

Characteristics	Parameter	Rating
Electrical Characteristics	Power Requirement	24V DC
	Output Signal	Relay Output
	Detection Object	Tap water
	Detection output Status	Relay output is closed, and LED will turn on when in the detection sensitivity specification.
	Detection output Status	Relay output is open, and LED will turn off when out of the detection sensitivity specification
	Detection sensitivity	Center line: -3mm, +6mm
	Working current	50mA
Mechanical Characteristics	Waterproof level	IP67
	Line length	4 FT
Operating Condition	Temperature of the liquid	0 - 60°C
	Storage temperature	0 - 70°C
	Service	Compatible with all kinds of water quality

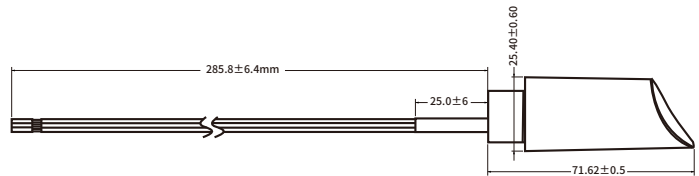
Please contact sales@xintec.hk for latest product details

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