

C-SF-DZ-JRWIR-E

Isolation Type

Water Leakage Sensor

User Manual

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1. Product Overview

The isolated water immersion detector amplifies, shapes, and compares the water immersion input signal through a signal processing circuit based on the impedance change after the detection electrode is immersed in water. It outputs a dry contact or high and low level change signal to indicate whether there is water at the detector's location; The structure adopts an integrated fully sealed plastic shell design, ensuring high reliability of the product; Realizing full isolation of power input and output ensures high product reliability and strong anti-interference ability. The water immersion detector adopts a relay output alarm signal method.

This water immersion detector is suitable for communication base stations, hotels, restaurants, precision equipment rooms, libraries, warehouses or monitoring equipment rooms, as well as other places where there is water accumulation that requires alarm.

2. Features

- ◆ High sensitivity, fast response time, and no false alarms;
- ◆ Adopting isolation design, safe and reliable;
- ◆ Integrated fully sealed design, safe and convenient to use;
- ◆ Optional anti condensation function;
- ◆ Designed with fixed installation holes, the sensing position can be adjusted as needed, and an alarm will sound when touched when there is water accumulation.

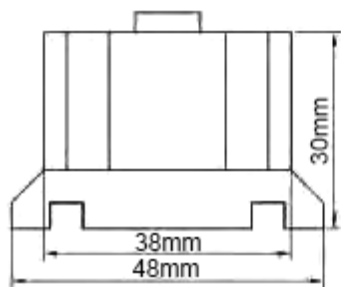


3. Technical Parameter

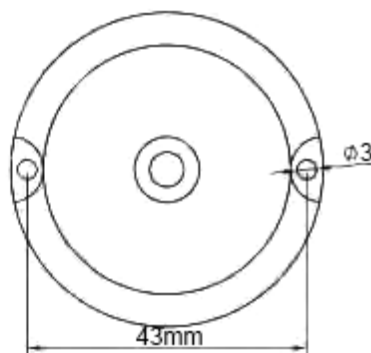
Working power supply	DC12-24V(Min8V-Max28V)
Electrostatic protection	± 5000V
Internal short circuit protection	Yes
Surge protection	Instantaneous pulse ± 250V
Operation temperature	-25°C~60°C
Operation humidity	0%RH~100%RH
False alarm rate	<100ppm
Static power dissipation	<0.03W@24V
Alarm power consumption	MAX0.6W@24V
Output form	Relay output NC/NO can be selected
Carrying capacity	Relay output, ≤ 1A/30VDC
Waterproof level	IP68
Size	48*48*30mm
Configuration	Standard 1.5 meter detection cable, customizable detection cable length
Detection cable	Sensor cable point type detection point, evenly distributed around 10cm

4. Equipment size, wiring, and installation and commissioning instructions

4.1 Equipment size (mm)



Front view



Vertical view

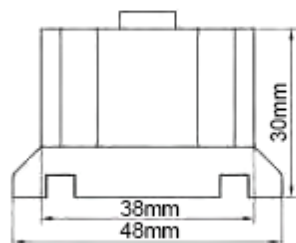
4.2 Wire

Wiring color	Wiring Instructions
Brown	Power supply positive
Black	Power supply negative
Yellow	Normally open contact output No polarity difference
Blue	Signal common terminal No polarity difference
Green	Normally closed contact output No polarity difference



4.3 Equipment installation instructions

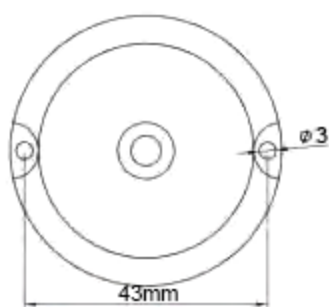
(1) The transmitter can be installed with the probe facing downwards, in contact with the ground, and the probe in contact with water to give an alarm. The installation method is shown in Figure 2-1;



Front view



2-1 Schematic diagram of placing the probe downwards



vertical view



2-2 Schematic diagram of screw fixed hole position

4.4 Equipment installation precautions

The C-SF-DZ-JRWIR - E point type water immersion detector is an electronic device. The following preventive measures should be taken to avoid damage to electronic components.

- (1) Handle with care and avoid mechanical impact and impact;
- (2) Keep dry;
- (3) Before taking the detector, touch any grounded equipment or water pipes to avoid static electricity;
- (4) Avoid contact with metal filings, grease, pipeline coatings, and other pollutants.

4.5 Product label and packaging display



5. Specification and type

Product name	Type
Relay water immersion sensor	C-SF-DZ-JRWIR-E
2-wire water immersion sensor	C-SF-DZ-JR
3-wire water immersion sensor	C-SF-DZ-JR-R
Relay water immersion sensor host	C-SF-DZ-JRWIR-P
RS485 water immersion sensor host	C-SF-DZ-JRWIRS485
RS485+Relay water immersion sensor host	C-SF-DZ-JRWIRS485-P
RS485+IP address water immersion sensor host	C-SF-DZ-JRWIRS485-IP
RS485+Relay+IP address water immersion sensor host	C-SF-DZ-JRWIRS485-P-IP
NB water immersion sensor host	C-SF-DZ-JRRWI-NB
LORA water immersion sensor host	C-SF-DZ-JRRWI-L
4G water immersion sensor host	C-SF-DZ-JRRWI-4G