C-SF-DZ-JRWIR

Isolation Type (Relay/5-wire)

Water Leakage Sensor

User manual (V2.00)

Catalog

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.
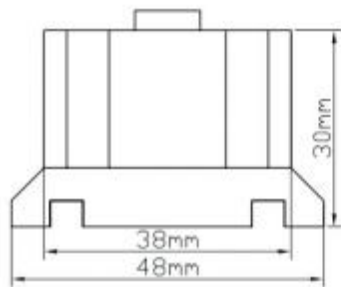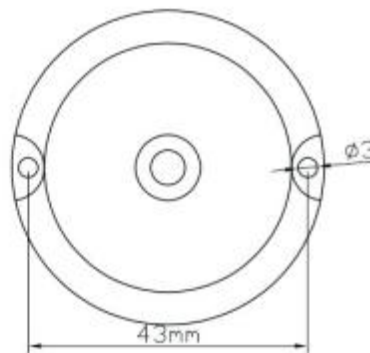
3. Technical Parameter

Project	Parameter
Working power supply	7-36V/12V/24V
Operation temperature	-20°C~60C
Operation humidity	0%RH~100%RH
False alarm rate	<100ppm
Static power dissipation	<0.008W
Alarm power consumption	MAX0.6W@18V
Output form	Relay output NC/NO can be selected
Carrying capacity	Relay output，≤1A
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
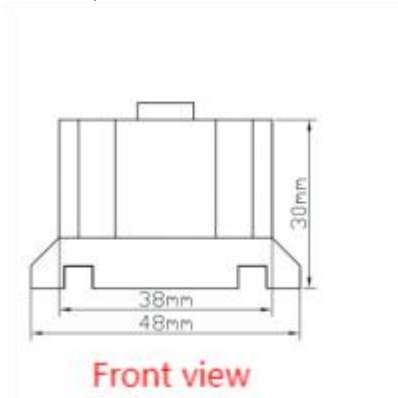
4. 1 Equipment size（mm）

Front view   **Vertical view**

4.2 Wire

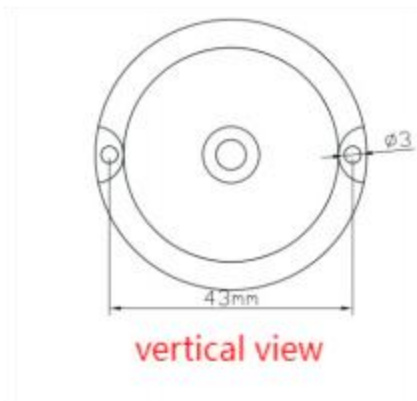| Wiring color	Wiring Instructions
Brown	Power supply positive
Black	Power supply negative
Yellow	Normally open contact output No polarity difference
Blue	Signal common terminal No polarity difference
Green	Normally closed contact output No polarity difference

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;

2-1 Schematic diagram of placing the probe downwards

2-2 Schematic diagram of screw fixed hole position

4.4 Equipment installation precautions

The C-SF-DZ-JRWIR 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.

5. Specification and type

Product name	Type
Rela(2-wire) water immersion sensor	C-SF-DZ-JRWIR-05P/12P/24P/7-18P/7-36P
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

6. Contact us

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ATO

Product Warranty Regulations

Dear user:

Thank you for purchasing and using Jinrui Zhicheng's products!

Under normal use, any quality problems caused by raw materials or production processes of the product you purchased will be covered by a free warranty service from the date of purchase (please refer to the Product Warranty Form for details). Any damage caused by users not following the requirements of this product manual, self installation, disassembly, or incorrect use will be repaired by our company, but an appropriate repair fee will be charged.

Warranty Regulations:

From the date of purchase of the product, under normal use (determined by authorized technical personnel of the company), free repair will be provided for the faulty product (specific time can be found in the warranty form).

Products that have been repaired or modified by maintenance personnel outside of our company during the warranty period, or products that have malfunctioned due to improper installation, incorrect input voltage, improper use, accidents, or natural disasters, are not covered by the warranty.

Before accepting warranty services, customers are required to present a warranty card or purchase invoice to prove the date of product purchase. Those whose dates cannot be confirmed will not be covered by warranty.

All products under warranty or repair are at the user's expense for shipping and shipping risks.

For products that exceed the warranty period or do not meet the warranty conditions, our company provides paid repairs.

Any other verbal commitments that conflict with this warranty regulation shall be executed in accordance with this warranty regulation.

Our company's responsibilities in product manufacturing, sales, and use should not exceed the original cost of the product. Our company does not assume any joint liability.

The interpretation rights of this regulation belong to our company.

warranty period	Two year warranty