

# XW-DC-01

## Point water leak sensor

### Product Specification



- ◆ High sensitivity
- ◆ High reliability
- ◆ Photoelectric principle
- ◆ Explosion-proof design

### Product Overview

XW-DC-01 Point water leak sensor adopts photoelectric detection principle. The structure is fully sealed design, the housing is made of carbon steel, the outer material is coated with a layer of black paint, and the inner circuit is sealed with glue. It can achieve the function of explosion-proof, dust-proof and water-proof. The electronic components are little affected by environmental factors, so as to ensure the high precision and reliability of products.

### Application & Features

#### Application

- IDC
- Communication stations
- Petrol station
- Oil storage
- Warehouse

#### Features

- Explosion-proof design, suitable for the places with explosion-proof requirements, such as gas stations, oil depots, and dust-concentrated spaces
- With three screw fixing positioning holes, it's firm

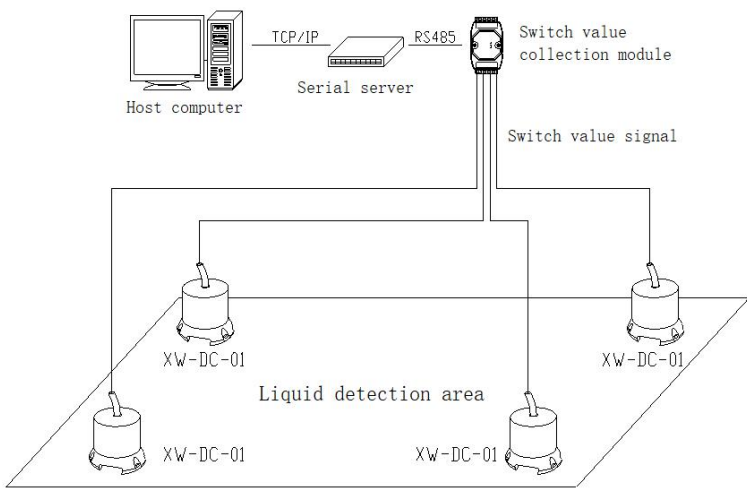
and reliable for installation.

- Using industrial-grade electronic components can not only ensure high sensitivity, but also reduce false alarms caused by various external factors.
- Adopt electromagnetic compatibility design, with anti-surge, anti-static, anti-EFT and other protection functions.
- It can detect not only water, but also gasoline, diesel and acid-base liquids with a concentration of less than 30% after dilution.

## Technical Data

Environmental rating	Operating Temperature	-40℃~70℃
	Operating humidity	0~95%RH(No condensation)
Power supply	Supply voltage	DC 9~30V(recommend 12V DC)
	Power Consumption	≤0.5W
Relay	Contact type	Dry Contact, 1 set, NO
	Load capacity	120VAC/2A, 24VDC/2A
EMC protection grade	ESD	Contact discharge±8KV, Air discharge±15KV
	Surge	±2KV
	EFT	±2KV
Electrical Characteristics	Insulation resistance	>2200MΩ
	Withstand Voltage	>4KV

## Operation Principle

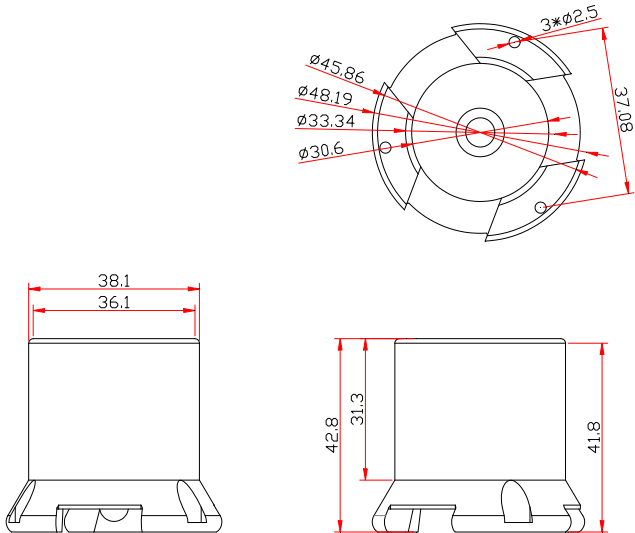


Detection system topology diagram

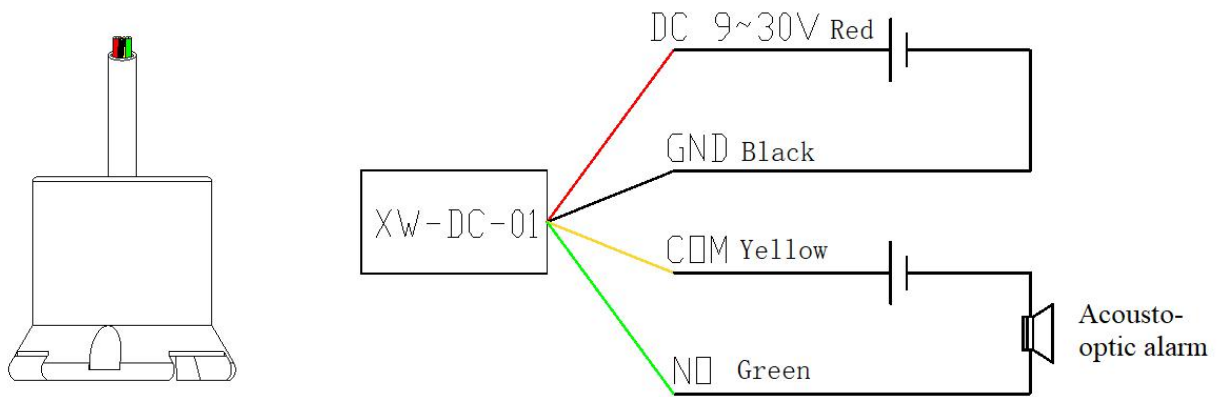
XW-DC-01 Point water leak sensor is installed in the leakage monitoring area, and the leakage data can be collected through the switch value collection module and uploaded to the host computer. Sensor relay output signal can be used to control peripheral equipment such as acousto-optic alarm, telephone dialer, SMS module, switch value collection module, etc.

## Installation

- ◆ Using screws to fix the three positioning hole on the floor or water tank. Avoid high temperature, high humidity, vibration, corrosive gases, and other electronic interference sources.



- ◆ Please connect cables when the power supply of the sensor is disconnected.



## Debug Instructions

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- ◆ When the sensor power-on, the multimeter switch to the buzzer, yellow and green cables for disconnected state; If it is in closed state, it may be due to abnormal device.
- ◆ Take a some water (non-purified water) and soak the sensor probe protection cover in water. After one second, the relay will act and yellow and green cables conduction. After drying the water on the sensor, the relay is reset and the yellow and green lines are disconnected.

## Notices

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- ◆ Please don't touch the detector with wet hands.
- ◆ Please don't modify or disassemble the detector.
- ◆ Please connect cables when the detector when power-off.
- ◆ Check the load capacity of the power supply when connecting multiple devices.
- ◆ Avoid contact with metal files, grease, pipe paint and other contaminants.
- ◆ Before installation, confirm the rated voltage of detector and the power supply voltage.
- ◆ During regular inspection and maintenance, avoid using organic solvents and wipe with dry cotton yarn.



We recommend that you use this manual under the guidance of professional personnel. If the product is damaged by violation operation or a third party force majeure such as fire, flood, lightning and natural disaster, Xiangwei will not assume any responsibility.

**Shenzhen Xiangwei Measurement and Control Technology Co., LTD**

Web: [www.xiangweileak.com](http://www.xiangweileak.com)

Tel +86 0755-83541693

[xw@szxiangwei.net](mailto:xw@szxiangwei.net)