

Product Specification



- ◆ High reliability
- ◆ Small diameter
- ◆ Anti-interference
- ◆ Prevent false alarm

Product Overview

XW1100D Water sense cable is suitable for all kinds of liquid leakage risk places due to its cost-effective. It can be connected with most of the leak alarm host and form a leak detection system with high detection sensitivity, rapid and reliable response. The sense cable is made of two light high-density polyethylene wires pressed around the central axis of the spiral. Compared with parallel structure wires, the spiral structure can reduce environmental electromagnetic interference and false alarm rate, and greatly improve the strength and service life of the cable. The sense cable has automatic recovery function and can be reused.

Application & Features

Application

- Water supplying pipeline
- Data Centre
- Intelligent Building
- Library
- Warehouse

Features

- Spiral structure not only reduce the environmental electromagnetic interference and false alarm, but also greatly improve the strength and service life.

- Two core wires design based on the principle of short circuit which can be used with Xiangwei non-locating leak detectors as well as other brands.
- Waterproof structure of the plastic plug, convenient cascade and expand detection range. Variety of length meet the needs of detection ranges.
- Small diameter does not occupy too much space which can be used in narrow environments
- Flexible for installation in complex and bending pipelines

Technical Data

Cable diameter	3.8mm
External resistance of cable conductor	$\leq 0.1\Omega/\text{m}$
Cable weight	21g/m \pm 2 g/m
Cable color(Central axis)	Blue
Material(Central axis)	PVC
Operating temperature	-20°C~75°C

Product Selection

Part number	Description
XW1100D-5m	5 meter non-locating leak sense cable
XW1100D-10m	10 meter non-locating leak sense cable

Note: Length can be customized according to the requirements

Operation Principle

When the liquid contact with the sense cable, the inner core wires of two sense wires are conductive in contact with liquid, forming a circuit, leak detector detects the leakage, send an alarm signal.

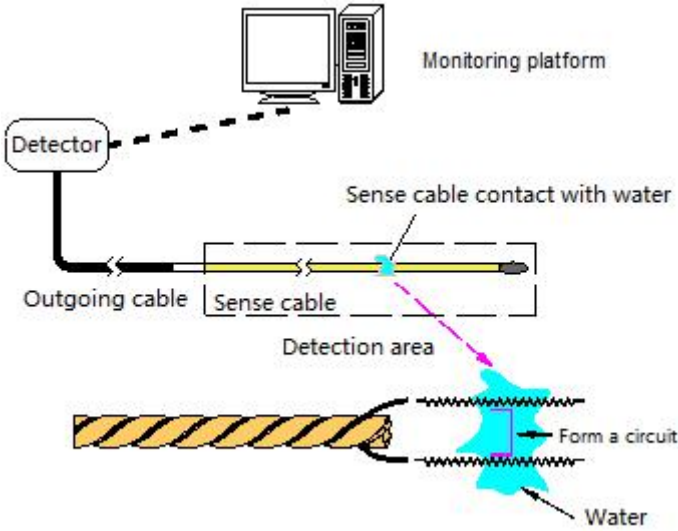


FIG. 1 Schematic diagram of operation principle

Installation

- ◆ Each XW1100D sense cable needs outgoing cable for easy to connecting with the detector quickly and reliably. (Sense cable with plug needs to purchase 3 meter outgoing cable and termination end separately; Sense cable without plug needs 2 meter outgoing cable, which has been connected with sense cable before delivery)



Split sense cable outgoing cable (purchase separately)



Fixed sense cable (connected before delivery)

- ◆ Special installation adhesive tape is used to fix cables on the flat surface to ensure accurate and reliable cable detection.
- ◆ Installation accessories (terminal end and jumper cables, etc.) can connect multiple sense cable together to form a complete detection circuit.

Notices

- ◆ The area where the sense cable is laid should avoid electrostatic interference.
- ◆ Sense cables should be kept dry and clean during laying.
- ◆ Avoid contact with metal objects during laying sense cables.
- ◆ Sense cables should not be soaked in dirty water or other chemicals for a long time.
- ◆ Sense cables should be installed close to the ground to maximize contact with leaking fluids.
- ◆ Do not overlap or touch the sense cables in the laying area, otherwise false alarm may be caused.
- ◆ Sense cable should not be laid in the environment of high temperature, high humidity, vibration, corrosive gas and other electronic interference sources.
- ◆ During installation or use of sense cables, do not manually extrude and pressure, otherwise the sense cables may be damaged.
- ◆ Sense cable installation should avoid too much tension, the cable and plug connection may get looseness, poor connection and fracture.
- ◆ When conductive materials or water-repellent contaminants (wax, oil, etc.) are dissolved in the leakage liquid, it may not be reusable. In this case, the sense cable needs to be replaced.

Certificates



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.

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