

Product Specification



- ◆ Accurate locating
- ◆ High reliability
- ◆ Reusable
- ◆ Thin film design

Product Overview

XW-TFDW30 Film water sense cable can detect leaking points anywhere on the cable which suitable for leak detection in highly clean environment and pipeline. It can be connected with XW non-locating leak detector to form a leak detection system with high detection sensitivity, rapid and reliable response. With thin film design, the sense cable can be installed close to the floor, and do not take up too much space. The sense cable has automatic recovery function and can be reused.

Application & Features

Application

- Semiconductor plant
- Dangerous chemical factory
- Cleanroom
- Liquid pipeline
- Panel factory

Features

- Flexible for installation in complex and bending pipelines

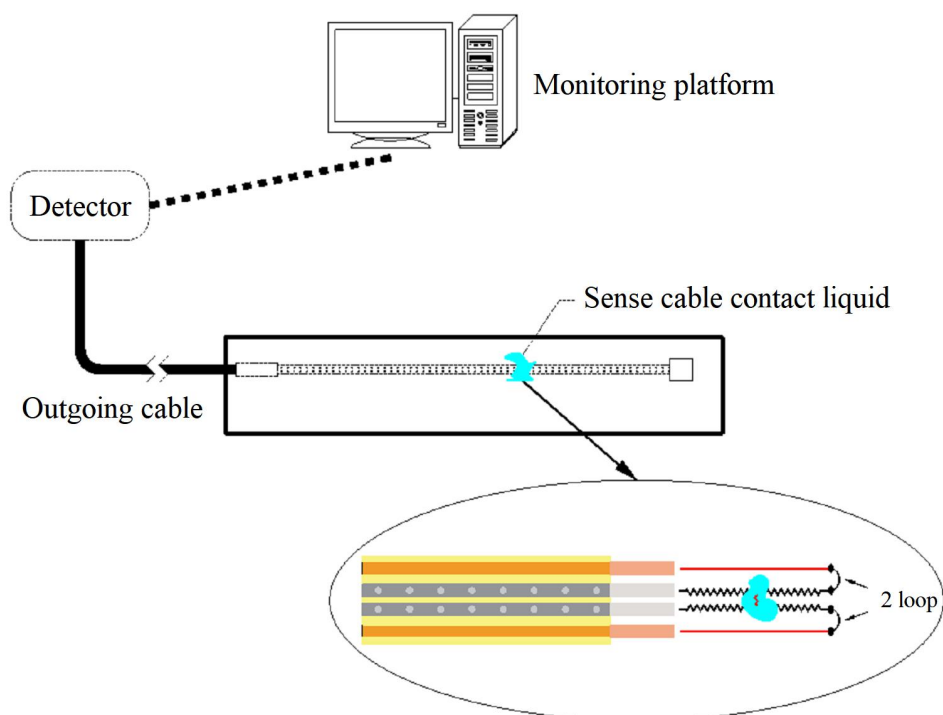
- Waterproof structure of the plastic plug, convenient cascade and expand detection range.
- The resistance is uniform and the error is within 1%. With high stability and accuracy of detection and locating for the leakage detection system which takes resistance as an important parameter.
- It's easy to install and does not affect the movement of people and trolley due to the thin film design with double-sided adhesive. And its smooth design features facilitate fast drying.

Technical Data

Cable Size	28mm*0.35mm
Material	Alloy+PET
Cable color(Central axis)	Yellow
Wire core quantity	4pcs
Cable weight	112g/15m±2g/15m
Cable resistance	13Ω/m
Abrasion performance	> 65 cycles
Tensile	≤50kg
Operating temperature	-20°C~110°C
Fire resistance	V0
Alarm leakage (tap water)	Any position along the leakage sense cable: maximum 50mm

Operation Principle

When there is liquid seep into the interior through small holes on the surface of sense cable, the inner core wires of the two sense wires are conductive in contact with liquid to form a loop resistance, so that the current changes. According to the proportional relationship between the resistance and the length of the conductor, alarm signal is issued through the rapid calculation of the detector, figuring out the specific leak location.



Schematic diagram of operation principle

Installation

- ◆ Each XW-TFDW30 sense cable needs outgoing cable for easy to connecting with the detector quickly and reliably.



Outgoing cable



Jumper cable



terminal end

- ◆ The sense cable comes with double-sided adhesive tape. When installing, tear off the adhesive film on the back of the film sense cable and install it close to the ground or pipeline.
- ◆ 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.
- ◆ Pay attention to the pin sequence of male and female connectors when connecting the sense cable, align the holes and gently insert them, and then tighten the threaded ring clockwise (unlock in a counterclockwise direction).
- ◆ 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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