DT1000 DATA/INSTALLATION SHEET:

DT1000 SENSING TAPE PREVENTING CRITICAL LEAKS

Internal water leak detection panel for use in domestic, commercial and industrial environments.

DT1000 sensing cables detect the presence of water at any point along their length. Installed with a alarm and locating module, the cable senses water intrusion, triggers an alarm, and pinpoints the location.

Distributed sensing
DT1000 sensing cables provide distributed leak detection and location over a wide range of areas. The cable is available in a variety of lengths to provide as much coverage as needed.

Design flexibility
DT1000 sensing cable is supplied with factory-installed plastic connectors that plug together. The cable is designed for a range of applications, including data centre subfloors, telecommunication rooms, HVAC equipment locations, pipes, electrical vaults, storage areas, tanks, and roofs. The cable is small, lightweight, and flexible, allowing easy installation. The smooth design allows for quick drying.

Advanced technology
The conductive-polymer technology and fluoropolymer construction make DT1000 sensing cable mechanically strong and resistant to corrosion and abrasion. The cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire embedded in a fluoropolymer carrier rod. The alarm module constantly monitors the sensing cable for continuity. The rugged cable construction exposes no metal, and enables the cable to be reused even in corrosive environments.

Working Principle
When there is water contact, the two sensing wires will be short circuited, resulting in the change of current. According to the proportional relationship between the resistance and the length of the conductor, through the rapid processing of the controller, the specific leakage location can be provided

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Cable Characteristics

CABLE DIAMETER	6.0mm Nominal
CONTINUITY & SIGNAL WIRES	2 x 26AWG with insulation of fluoropolymer
SENSING WIRES	2 x 30AWG with jacket of conductive fluoropolymer
CARRIER	Fluoropolymer
CABLE WEIGHT (50ft/15m length)	0.5kg
CABLE COLOUR	High visibility yellow or brown

Technical Information

ABRASION RESISTANCE	>65 Cycles per UL 719
MAX CONTINUITY OPERATING TEMPERATURE	75°C
FIRE RESISTANCE	Class 2 plenum cable per NEC 1996 725-71 (a) UL 910 Modified Steiner Tunnel Test
BREAKING STRENGTH	90kg

Installation instructions

- Induction line in the process of laying keep dry and clean.
- Sensor cable need to be used under the specified working temperature, do not contact with open flame.
- Induction line in the docking process, please pay attention to male female connector pins order, alignment hole location and gently insert lock screw clockwise loops (counterclockwise).
- Sensor cable laying area should be avoided by electrostatic interference.
- Sensing line shall not be dirty water or other chemicals soak for a long time.
- Induction line should be close to the ground installation, the maximum contact leakage of liquid.
- Induction line installed on the ceiling, the need to consider using fluid tank, to prevent leakage under the damage of equipment

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