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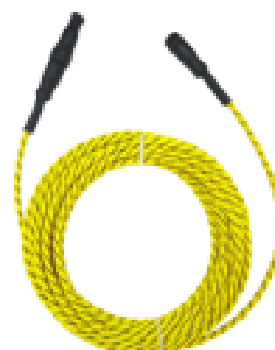
LPDA1 Series Water Leak Detection Sensor

INSTRUCTION AND MAINTENANCE MANUAL (IOM)

PRODUCT OVERVIEW

The LPDA1 Series cable-type water leak detection sensor is a high-performance, non-positioning leak detection device. It can be installed together with a detection cable or paired with other detection probes. Through its relay contact output signal, it can be integrated with various monitoring systems to enable remote alarming and remote equipment control.

This product features a power-on self-test function that effectively verifies whether it is operating normally. It also offers a selectable alarm relay output signal (normally open/normally closed), and the length of the electrical connection cable can be customized as needed. This product is widely used in basements, water tanks, communication rooms and facilities, equipment rooms, water towers, swimming pools, pumping stations and control rooms, solar water heaters, and all other water-storage devices and equipment, as well as any location where leak or overflow alarm detection associated with water is required.

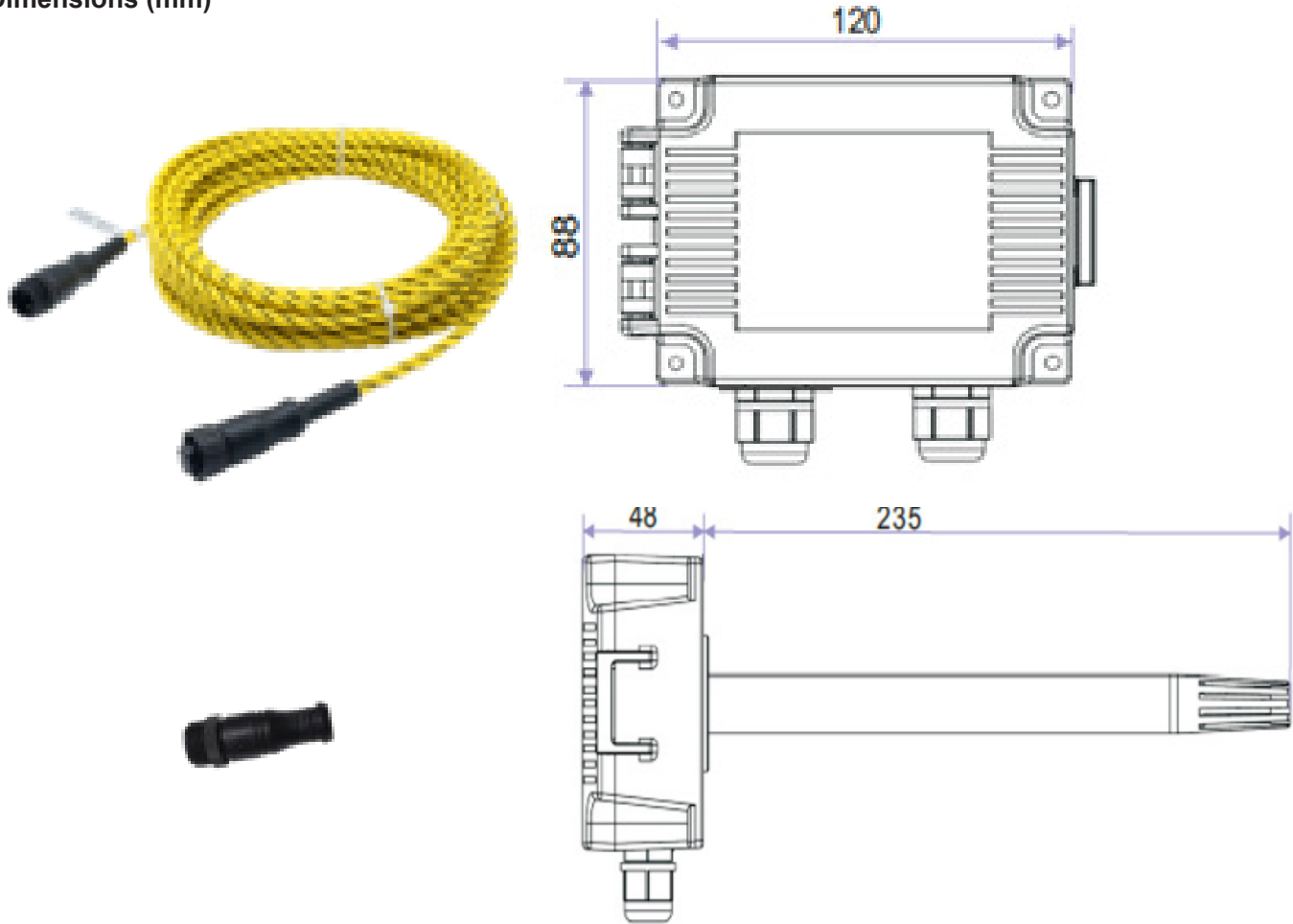


Technical Specifications

Supply Voltage	12-24 VDC
Alarm Method	Relay, Audible and Visual Alarm
Load Capacity	2A @ 30VDC/1A @ 125 VAC
Operating Environment	-30°C to 60°C / -22°F to 140°F, 10–80% RH (non-condensing)
Storage Environment	-20°C to 50°C / -4°F to 122°, 10–80% RH (non-condensing)
Static Current	< 20 mA
Alarm Current	< 60 mA
Sensing Cable Length	1-50m / 3.3 to 164 feet (see product label for details)
Housing Material	ABS+PC
Installation Material	Fixed mounting, cable-type detection

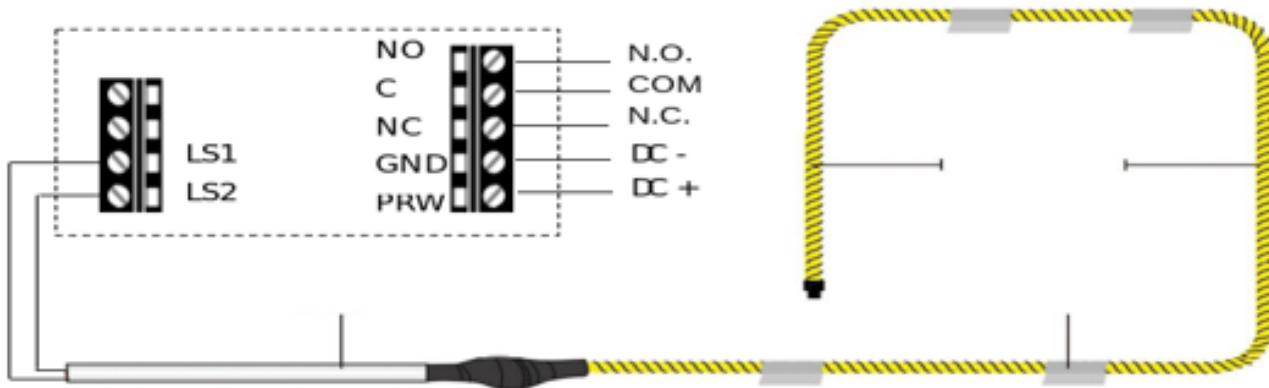
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Dimensions (mm)



48mm = 1.89", 88mm = 3.46", 120mm = 4.72" and 235mm = 9.25"

Wiring Diagram



When installing the LPDA1 Series water immersion detection cable, keep it away from high/low-temperature heat or cold sources, strong magnetic fields, and damp, dusty environments. During cable routing, avoid sharp objects that could scratch the cable. Please refer to the next section for recommendations for cable installation.

PRODUCT INSTALLATION

CORRECT INSTALLATION METHOD (RECOMMENDED)



**Plastic Cable
Cable Mount**



**Cable Tie
Mount**



**Mount Along
Pipe/Conduit**

INCORRECT INSTALLATION METHOD



**Glue-Fixed Installation
(Prone to Cable Damage)**



**Metal-Tie Installations
(Prone to Interference-Causing
False Alarms)**



**Installation Direction Facing An
A/C Vent
(Prone To Condensation-Caused
False Alarms)**

Precautions

- Do not reverse the power supply polarity, and do not exceed the maximum supply voltage.
- Do not use to measure chloride solvents; keep away from corrosive, reactive, or oily substances beyond just water.
- Do not use in high-temperature or freezing environments; keep away from high-voltage electricity or heat/cold sources.
- During use, it is recommended to service the sensor periodically (at least every six months) and keep the detection cable surface clean.
- After a water immersion alarm occurs, it is recommended to perform an on-site inspection as soon as possible (within 24 hours) and remove any standing water.