

Point Type Sensor LD-SDS-RO / 485

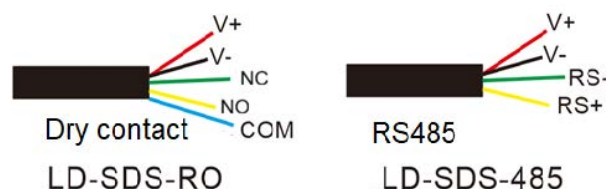
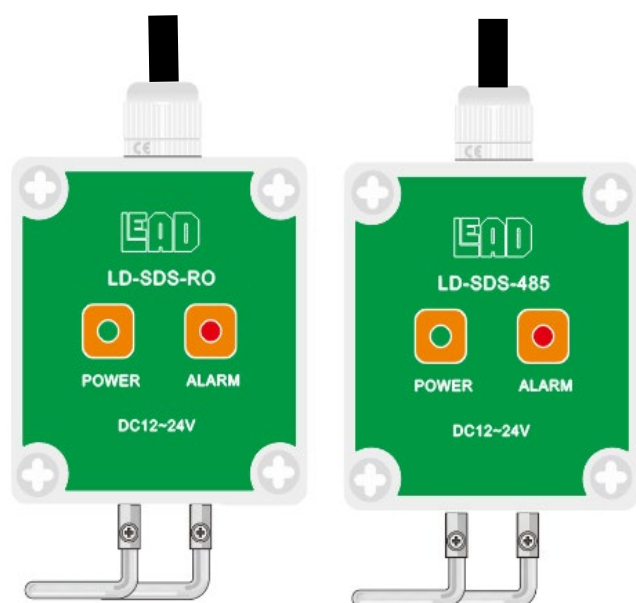


Product Datasheet

Product overview

The water spot type leakage sensor LD-SDS-RO/485 is an integrally designed water leakage alarm device. The sensor has an integral structure. The connecting wire and the probe are all located outside, which is easy to install and has no internal adjustable parts. User only need to adjust the detection height of the probe.

Through its output relay contact signals, remote alarms and remote device control can be realized. Its modular system adopts a highly sensitive detection principle and is designed with a unique anti-surge protection function, which can ensure high sensitivity during detection, but also avoid false alarms caused by various external factor.



Note: Available with different options:

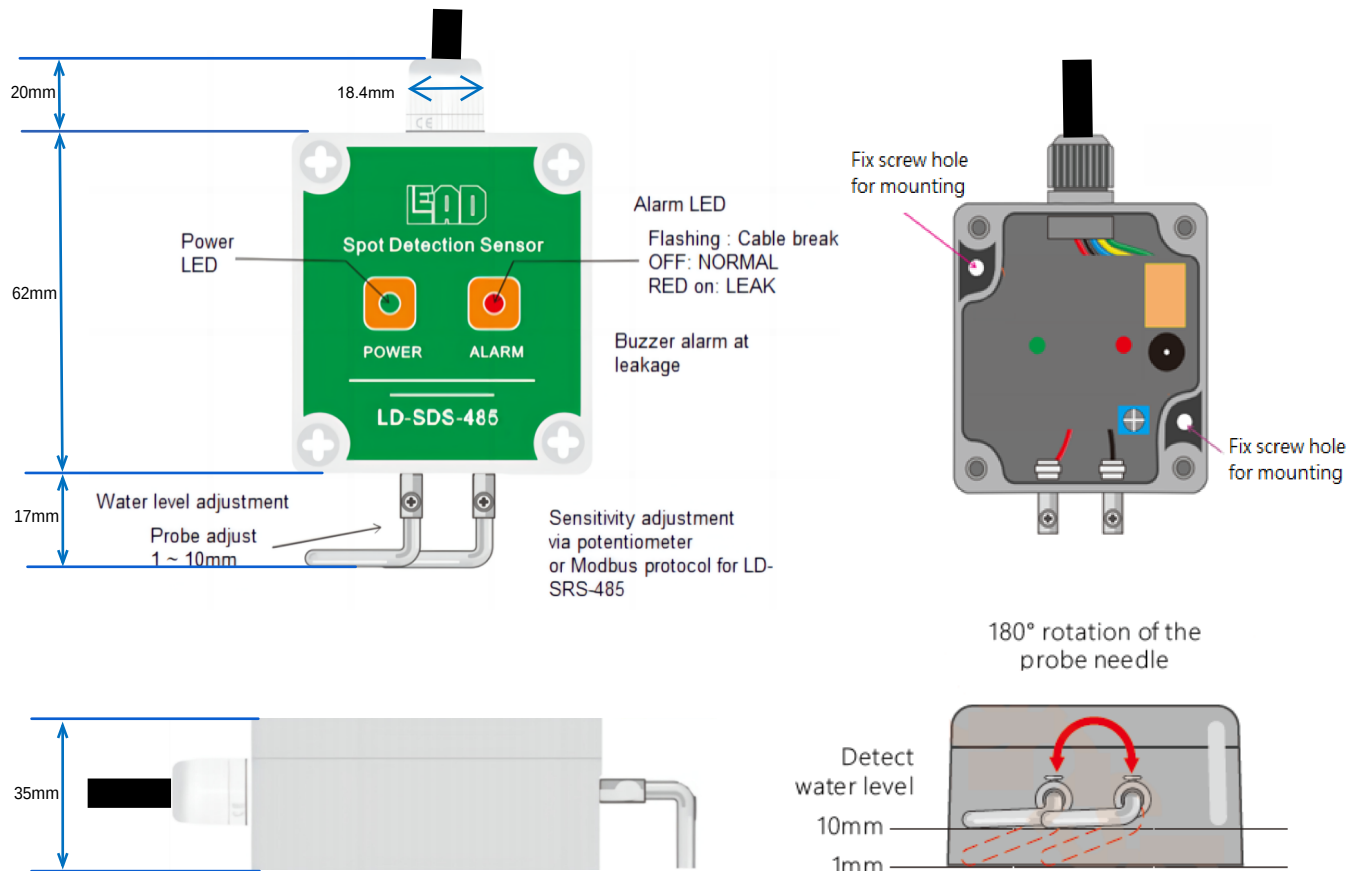
*LD-SDS-RO:
Dry contact relay output
(standard version)

*LD-SDS-485:
RS485 output

Features

- The detection sensitivity can be adjusted to widely respond to different needs.
- Adjustable height stainless steel probe, easy to use, longer life.
- With alarm indicator and buzzer, the alarm is clear at a glance.
- Fully sealed and waterproof structure can be installed and used in special environments.

Product details



Technical data

Detection probe	304 stainless steel, L-type probe or electrode or water sensing cable
Detect water level	Adjustable measuring level 0-15mm
Response time	<3s
Housing	White ABS
Protection class	IP65 & IP67 (Flexible Choice)
Power supply	12~24V DC
Power consumption	< 1.5W
Operating environment	Temperature: -20 ~ 70°C Humidity: 0 ~ 95% (non-condensing)
Relay Output	1 x SPDT (Contact Rating 220V AC/0.5A 30V DC/1A)
Cable inlet	5 x 0.3mm RVV cable
Weight	80g
Terminal wiring	*LD-SDS-RO: Red (DC+) Black (DC-) Green (NO) Yellow (NC) Blue (COM) *LD-SDS-485: Red (DC+) Black (DC-) Green(RS+) Yellow (RS-)

Various application environment

The point type sensor is waterproof and can be used in humid environments for a long time (stainless steel probes are more robust). The point type sensor can also be installed on the wall through two fixing screws.



When installing the point type sensor, please be make sure with power OFF, follow the operation instructions with the correct wiring and check if it is correct before power ON.

Water sensing cable can be also mounted at probe position as an U-shape detection zone (U-loop shape detection). Or a long water sensing cable can be mounted at probe position along the required water leakage detection location.



Installation guidelines

1. System description

LEAD point-type water sensor is designed for localised leak detection at specific risk points such as toilets, pipe joints, AHU rooms, pump rooms, and equipment bases.

Each sensor detects the first presence of water at floor level and transmits the alarm signal to the water leakage management system or BMS.

2. Typical installation arrangement

Main component:

- Point-type water leakage sensor (LD-SDS-RO or LD-SDS-485)

3. Sensor installation level

- Sensor probe shall be installed 5 mm above finished floor level (AFFL)
- Sensor shall be located at the lowest point where water is expected to accumulate
- Avoid direct contact with floor surface to prevent false alarms due to cleaning water

Design intent: Early leak detection while avoiding nuisance alarms

4. Mounting method

- Sensor body fixed to wall or partition using screws
- Sensor probe oriented vertically downward
- Cable entry via waterproof gland or conduit into connection box

5. Cabling & connection

- Sensor cable connected to DDC panel for signaling and power terminal
- All cables installed in conduit or trunking, segregated from power cables



Product	Features		Product code
Master panel		Can connect 500m sensor cable, 100 units of slave panels (LP-LPM, LD-LPD-2RLB, point type sensor). Set the address and sensitivity of the locating panel	LP-LPM
Detection panel		Detect the leak location Acceptable sensing cable length: up to 800m	LD-LPD-2RLB
		Collect point type sensor leakage signals Quantity of point type sensors connected: up to 12	LM-D12
	 	Panel: Detect the multiple leak location with LP-SM Acceptable sensing cable length: up to 800m Sensor module: Maximum 50m sensing cable per each module. Maximum 16 sensor modules LP-SM for each LD-LPD-MPDM	LD-LPD-MPDM & LP-SM
		Detect liquid leak and display the current system status	LP-NP
Sensing cable		Water sensing cable	WS-LXXX
		Oil sensing cable	LD-LLW5000-LXXX
		Chemical sensing cable	CS-LXXX
		Organic solvent sensing cable	LD-LLW5001-LXXX
		Cotton base water sensing cable	LD-LLW1002-LXXX
Point type sensor		Protection class: IP65	LP-LGM
		Fully sealed and waterproof structure More flexible . Protection class: IP65	LD-SDS-RO/485

This brochure has been carefully prepared to ensure technical accuracy but is only intended for promotional use. LEAD can not guarantee that the information contained herein contains no errors or omissions, and hence does not accept responsibility related to the use of its equipment. LEAD maintain its obligations set forth in the Standard Terms and Conditions of Sale and will not, under any circumstances, assume liability for any incidental damages, indirect or consequential, arising from the sale, resale, use or misuse of this product. The purchaser(s) accept their responsibility as the sole judge(s) of the adaptability of the product for the intended use.

Note: In the interest of product improvement, specifications are subject to change without notice.

2025.11