Water Leak Detector

Point-Type Sensor

EPL-WDS
User Manual · V1.0
11.11.2026



SAFETY WARNINGS

Read this user manual carefully before operating the device. Follow the installation, electrical connection and commissioning sections step by step. Thereafter the owner/user must keep this manual in a known and visible place for the service life of the product.

- ⚠ Use the product within the stated environmental conditions.
- ⚠ The operating voltage of the product is stated on its label. Do not supply the product from any source outside this value.
- ⚠ Do not touch the supply terminals of the product with bare hands.
- ⚠ All service and repair work may be carried out only by Energyplus technical service. No other person should intervene in the product.
- ⚠ Store the product in a dry environment; otherwise a fault may occur.
- ⚠ ⚡ The relay output is rated for a maximum of 120 VAC / 24 VDC. Do not use it to switch 230 VAC mains loads directly.

Use of the product contrary to the conditions stated above may cause fire, serious personal injury, or damage to the product or to the structure in which it is installed. Energyplus Teknoloji accepts no liability for such situations caused by the user.

SYMBOLS

SYMBOL DESCRIPTIONS	
⚠	Used for important points in the following sections.
⎓	Indicates that the supply voltage of the product is DC.
CE	Indicates that the product complies with the relevant EU directives.
♻	The product must not be treated as normal household waste; it must be handed over to a collection point for the recycling of electronic equipment.
⚡	Used for warnings relating to voltage.

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1. DESCRIPTION

The EPL-WDS is a point-type water leak detector that identifies leaks at an early stage in indoor areas, protecting the building and its electrical equipment from water damage. Water is detected by one point-type sensor connected to the sensor input (S1, S2). When water is present, the unit sounds its built-in buzzer and signals a building management system (BMS), PLC or alarm panel through its dry-contact relay output.

Key Features

- One point-type water sensor (two-wire connection: S1, S2).
- Changeover (SPDT) dry-contact relay output (COM / NO / NC), compatible with PLC, BMS and alarm panels.
- LED indicators for supply and output status.
- IP-64 ingress protection
- Built-in buzzer for local audible alarm.
- Adjustable alarm delay, 0 – 30 seconds.

1.1 Package Contents

- 1x EPL-WDS Water Leak Detector.
- 2x mounting screws and wall plugs.
- 1x point-type water sensor (cable length: 50 cm).
- 1x supply and relay cable (length: 50 cm).

* For special orders, package contents may vary depending on the project or customer request.



Figure 1.1 – EPL-WDS with sensor and supply/relay cable

2. TECHNICAL SPECIFICATIONS

GENERAL	
Model	EPL-WDS
Product Name	Water Leak Detector (point-type sensor)
Country of Origin	Türkiye
Conformity	CE

ELECTRICAL RATINGS	
Supply Voltage	24 V DC ±5%
Power Consumption	0.6 W / 25 mA @ 24 V DC
Relay Output	1x changeover (SPDT) dry contact: COM / NO / NC
Contact Rating	1 A @ 120 VAC · 1 A @ 24 VDC (resistive load)

3. ENVIRONMENTAL CONDITIONS

- Operating Temperature: -10 °C ... +45 °C
- Storage Temperature: -20 °C ... +70 °C
- Relative Humidity: 10% ... 90% (non-condensing)
- Ingress Protection: IP-64

4. PRODUCT COMPONENTS

INDICATORS AND CONNECTION ELEMENTS	
POWER LED	Lit while the unit is powered. If it is off, check the supply voltage and the wiring.
OUTPUT LED	Lit while water is detected and the relay is energised.
Alarm delay trimmer	Sets the time for which water must be continuously present before the alarm is activated: 0 – 30 s, Turn clockwise to increase the delay.
Buzzer	Sounds while the alarm is active.

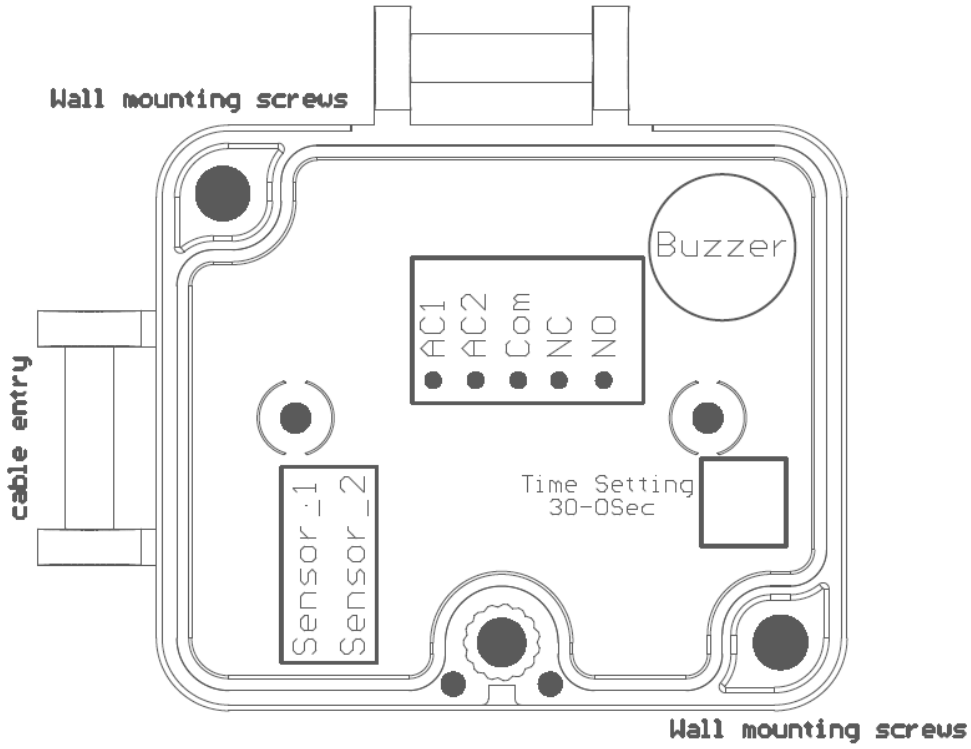


Figure 4.1 – Internal layout

5. WIRING DIAGRAM

Terminal layout: **from left to right: S1 · S2 - 24V · 0V · COM · NC · NO**

TERMINAL CONNECTIONS	
S1, S2 — Black / Yellow	Point-type water sensor (two wires, no polarity)
24V, 0V — Red (+) / Blue (–)	24 VDC power supply input
COM — White	Relay common
NC — Yellow	Relay normally closed contact – to automation system
NO — Green	Relay normally open contact – to automation system

⚠ Use COM–NO if the automation system expects a contact that closes on alarm. Use COM–NC if it expects a contact that opens on alarm.

6. INSTALLATION

1. Disconnect the supply and confirm that the system is not energised.
2. Fix the EPL-WDS to the wall in the area to be monitored, above the highest expected water level and within reach of the 50 cm sensor cable, using the screws and wall plugs supplied.
3. Place the sensor at the lowest point, where water will collect first. Mount it either flat on the floor or vertically on the wall with its contacts touching the floor.
4. Connect the two sensor wires to terminals S1 and S2.
5. Connect the 24 VDC supply to the 24V terminals, observing polarity.
6. Connect the relay output (COM and NO or NC) to the building management system, PLC or alarm panel.
7. Set the required alarm delay with the alarm delay trimmer.
8. Apply power and confirm that the POWER LED lights.
9. Test the system: bridge the sensor contacts with a damp cloth and keep it in place for longer than the set alarm delay. The OUTPUT LED must light, the buzzer must sound and the alarm must be received by the automation system.

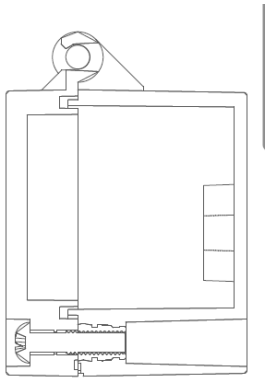


Figure 6.1 – Wall mounting of the detector unit

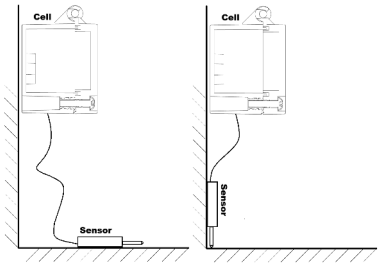


Figure 6.2 – Sensor placement: flat on the floor (left) or vertical on the wall (right)

7. INSTALLATION WARNINGS

⚠ Installation and maintenance must be carried out only by qualified technical personnel, with the unit disconnected from the supply.

⚠ The unit must not be exposed to direct water or dust.

⚠ The supply voltage must not go outside the 24 VDC ±5% range.

8. DIMENSIONS

Dimensions (W x H x D): 57 mm x 48 mm x 41 mm · Weight: 200 g

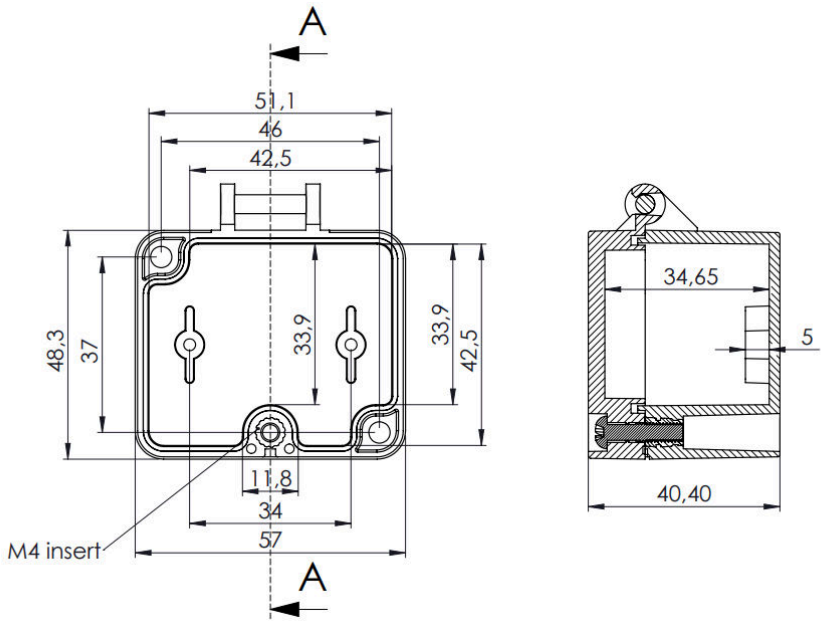


Figure 8.1 – Dimensions

Energyplus® Teknoloji
Oruçreis Mah. Tekstilkent Cad. T-10 Blok No: 315 Esenler / İstanbul, Türkiye
+90 212 909 98 10
https://www.energyplusstore.com info@energyplusstore.com