

ELS-1

Marking

ELS-1 (Enclosure Leakage Sensor)
Pepperl+Fuchs GmbH Lilienthalstrasse 200, 68307 Mannheim, Germany
EC-Type Examination Certificate: SIRA 12 ATEX 2129X II 1G Ex ia IIC T4
SIRA 12 ATEX 4154X II 3G Ex nAc IIC T4 , II 3G Ex ic IIC T4
IECEX SIR 12.0052X Ex ia IIC T4 , Ex ic IIC T4 , Ex nAc IIC T4

table 1

Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator. Mounting, installation, commissioning, operation, maintenance and dismantling of the device may only be carried out by appropriate trained and qualified personnel. The instruction manual must be read and understood.

Reference to Further Documentation

Observe laws, standards, and directives applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas.

The corresponding datasheets, declarations of conformity, EC-type-examination certificates, certificates and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

Due to constant revisions, documentation is subject to permanent change. Please refer only to the most up-to-date version, which can be found under www.pepperl-fuchs.com.

Intended Use

The enclosure leakage sensor is designed for the detection of water ingress in housings or surrounding enclosures. The device can be used with fieldbus Power Hubs, device couplers, and field devices.

The device is designed for use in intrinsically safe fieldbus systems according to FISCO or Entity. Use the device only within the specified ambient temperature range.

Improper Use

Protection of the personnel and the plant is not ensured if the device is not being used according to its intended use.

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

Mounting and Installation

Prior to mounting, installation, and commissioning of the device you should make yourself familiar with the device and carefully read the instruction manual.

Do not mount a damaged or polluted device.

Observe the installation instructions according to IEC/EN 60079-14.

Avoid electrostatic charges which could result in electrostatic discharges while installing or operating the device.

If the device has already been operated in general electrical installations, the device may subsequently no longer be installed in electrical installations used in combination with hazardous areas.

If circuits with type of protection Ex i are operated with non-intrinsically safe circuits, they must no longer be used as circuits with type of protection Ex i.

The maximum cable length is 1 m.

Hazardous Area

Type of Protection

Type of Protection Ex i

Install the protective sleeve supplied with the device according to the corresponding documentation of the product.

Avoid electrostatic charges which could result in electrostatic discharges while installing or operating the device.

Type of Protection Ex nA

The device must be installed and operated only in surrounding enclosures that

- comply with the requirements for surrounding enclosures according to IEC/EN 60079-0,
- are rated with the degree of protection IP54 according to IEC/EN 60529.

Provide a transient protection. Ensure that the peak value of the transient protection does not exceed 140 % of the rated voltage.

Install the connection lines in a way that the installation meets the requirements of the type of protection Ex nAc.

Operation, Maintenance, Repair

Prior to using the device you should make yourself familiar with the device and carefully read the instruction manual.

The device must not be repaired, changed or manipulated.

If there is a defect, always replace the device with an original device from Pepperl+Fuchs.

Delivery, Transport, Disposal

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered. Keep the original packaging. Always store and transport the device in the original packaging. Store the device in a clean and dry environment. The permitted ambient conditions (see datasheet) must be considered. Disposing of device, packaging, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.