

Original Instructions

1. Marking

USI-Safety Evaluation Unit USI-F262-2E5-V19-S2D3 Ultrasonic Transducer USI2500-27X13E-1,5M-V3, USI2500-27X13E-3M-V3 Temperature Sensor USI-TEMP-1,5M-V312
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2. Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling of the device. The trained and qualified personnel must have read and understood the instruction manual.

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

3. Reference to Further Documentation

Observe directives, standards, and national laws applicable to the intended use and the operating location.

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable supplement this document. You can find this information under www.pepperl-fuchs.com.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

For specific device information such as the year of construction, scan the QR code on the packaging of the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

If you use the device in safety-related applications, observe the requirements for functional safety. You can find these requirements in the functional safety documentation under www.pepperl-fuchs.com.

4. 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.

Only use the device in the industrial location.

The device is an electrical apparatus. The device consists of an evaluation unit and up to 2 ultrasonic transducers. The ultrasonic transducers are designed for use in the medium air. A temperature sensor can be connected as an option.

The device complies with ISO 13849-1:2015, Category 3, PL d.

Use the device only within the specified ambient and operating conditions.

If you use the device in safety-related applications, observe the information for safety function and safe state.

5. Mounting and Installation

Do not mount a damaged or polluted device.

If you install the device in safety-related applications, observe the requirements for functional safety.

Observe the ambient and operating conditions when mounting and installing the device.

Mount the device in a way that the device is protected against mechanical hazard.

Ensure that all fasteners are present.

Mount the enclosure at the fixing points provided.

Observe the tightening torque of the screws.

Only use accessories specified by the manufacturer.

To maintain the safety classification of the device, only connect a downstream control of the same or a higher category to the device.

The device must be disconnected from the power supply prior to installation and maintenance. The power supply may be activated only after all the circuits required for operation have been fully assembled and connected.

Protect you from electric shock. Only connect the device to power supplies with parameters comply to the specifications in the datasheet.

Observe the maximum voltage in the event of a fault.

Disconnect the device, before you plug or unplug the terminals.

Disconnect the device, before you plug or unplug the plugs.

Requirements for Ultrasonic Transducer Cables

Do not shorten, lengthen or modify the cable.

Do not pull the cable.

6. Operation, Maintenance, Repair

If you operate the device in safety-related applications, observe the requirements for functional safety. In case of operating in low demand mode, plan appropriate intervals for the proof test.

Observe the ambient and operating conditions when mounting and installing the device.

Do not use a damaged or polluted device.

Do not repair, modify, or manipulate the device.

If there is a defect, always replace the device with an original device.

Protect you from electric shock. Only connect the device to power supplies with parameters comply to the specifications in the datasheet.

Observe the maximum voltage in the event of a fault.

Disconnect the device, before you plug or unplug the terminals.

Disconnect the device, before you plug or unplug the plugs.

Requirements for Ultrasonic Transducer Cables

Do not shorten, lengthen or modify the cable.

Do not pull the cable.

7. 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 must be considered, see datasheet.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.