

Instruction Manual

1. Marking

Ultrasonic sensor
UMC3000-30H-E5-5M-3G-3D
UMC3000-30H-I-5M-3G-3D
ATEX certificate: PF 17 CERT 3944 X
ATEX marking: Ⓢ II 3G Ex nC IIC T6 Gc X Ⓢ II 3D Ex tc IIIC T80°C Dc X
Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany
Internet: www.pepperl-fuchs.com

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

The corresponding datasheets, instruction manuals, 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.

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.

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

Use the device only within the specified ambient temperature range.

Devices for which specific conditions of use apply have the X marking at the end of the certificate number.

The device can be used in hazardous areas containing combustible dust.

The device can be used in hazardous areas containing gas, vapor, and mist.

The maximum surface temperature of the device was determined without a dust layer on the apparatus.

5. Improper Use

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

6. Mounting and Installation

Do not mount a damaged or polluted device.

Observe the installation instructions according to IEC/EN 60204-1.

Observe the ambient and operating conditions when mounting and installing 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.

Specific Conditions of Use

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

Avoid inadmissibly high electrostatic charge on the device.

Include the fasteners in the equipotential bonding.

All parts of the fastener are conductive with regard to electrostatics.

Requirements for Cables and Connection Lines

Install the cables and connection lines in such a way that they are protected from ultraviolet radiation.

Avoid inadmissibly high electrostatic charge of the cables and connection lines.

Usage in Gas Groups IIA/IIB/IIC

The device may be installed in gas groups IIC, IIB, and IIA.

The device may be installed in Zone 2.

Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere.

Usage in Dust Groups IIIA/IIIB/IIIC

The device may be installed in dust groups IIIC, IIIB, and IIIA.

The device may be installed in Zone 22.

Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere.

7. Operation, Maintenance, Repair

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

The device is maintenance-free.

Do not repair, modify, or manipulate the device.

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

Do not use a damaged or polluted device.

If cleaning is required, use a clean water damp cloth.

Specific Conditions of Use

Do not exceed the maximum permitted output current. Prevent short circuits.

Do not exceed the maximum permissible operating voltage $U_{b,max}$.

Tolerances are not permitted.

8. 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.

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.