

Instruction Manual

1. Marking

IO-Link Master ICE2-8IOL-K45P-RJ45-EX, ICE3-8IOL-K45P-RJ45-EX, ICE2-8IOL-K45S-RJ45-EX, ICE3-8IOL-K45S-RJ45-EX
ATEX certificate: UL 25 ATEX 3354 X ATEX marking: Ⓢ II 3G Ex ec IIC T4 Gc
IECEx certificate: IECEx ULD 25.0005X IECEx marking: Ex ec IIC T4 Gc

For certification details refer to the device nameplate.

Safety-relevant markings are found on the nameplate of the device or the nameplate supplied.

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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, instruction manuals, manuals, declarations of conformity, certificates, etc. 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/device-information. If required, contact Pepperl+Fuchs for further information.

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.

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.

Observe the instruction manual and the certificate of the installed apparatus.

Technical data provided in the datasheet may be partly restrained by the information given in this instruction manual.

The certificate applies only to the use of apparatus under atmospheric conditions.

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

The device is an electrical apparatus for hazardous areas of Zone 2.

The device may be installed in the non-hazardous area.

The device is designed for a maximum altitude of 2000 m.

Observe the specific conditions of use.

The housing is factory-sealed. Do not open the housing.

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

The device is designed for mounting on a 35 mm DIN mounting rail according to EN 60715.

5. Improper Use

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

6. Specific Conditions of Use

The device must be installed and operated only in a controlled environment that ensures a pollution degree 2 (or better) according to IEC/EN 60664-1.

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.

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

Observe the mounting position of the device.

Mount the device in a way that the device is protected against mechanical hazard. Mount the device in a surrounding enclosure for example.

The device fulfills a degree of protection IP20 according to IEC/EN 60529.

If you intend to install the device or enclosure in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances. If required, contact Pepperl+Fuchs for further information.

The device must be installed and operated only in a controlled environment that ensures a pollution degree 2 (or better) according to IEC/EN 60664-1.

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.

If you use the device in environments subject to adverse conditions, you must protect the device accordingly.

Observe the tightening torque of the screws.

Observe the correct type of voltage when connecting the device.

Observe the correct polarity when connecting the device.

Requirements for Cables and Connection Lines

Only use cables and connection lines with a temperature range appropriate to the application.

Only connect a voltage that is permissible for the application.

Observe the permissible core cross section of the conductor.

Use only copper conductors.

Use only one conductor per terminal.

Observe the insulation stripping length.

When using stranded conductors, crimp wire end ferrules on the conductor ends.

Observe the tightening torque of the terminal screws.

Ensure that unused terminal screws are properly tightened down.

Requirements for Hazardous Area

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.

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

The housing must not be opened when the device is energized.

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.

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

Do not mount the device in the dust hazardous area.

Do not connect or disconnect increased safety circuits when the circuits are energized and a potentially explosive atmosphere is present.

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

Only use operating elements in the absence of a potentially explosive atmosphere.

8. Operation, Maintenance, Repair

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

Do not use a damaged or polluted device.

If there is a defect, the device must be repaired by Pepperl+Fuchs.

Observe the mounting position of the device.

Do not remove the nameplate.

Observe the warning markings.

Do not remove the warning markings.

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

Do not exceed the maximum power dissipation. Refer to nameplate for maximum power dissipation.

Requirements for Hazardous Area

Observe IEC/EN 60079-17 for maintenance and inspection.

The device may be operated in Zone 2.

When detecting a damage, remove the device from the hazardous area.

Do not connect or disconnect increased safety circuits when the circuits are energized and a potentially explosive atmosphere is present.

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

Only use operating elements in the absence of a potentially explosive atmosphere.

Return

If there is a defect, always send back the device to Pepperl+Fuchs.

Take the following precautions before you return the device to Pepperl+Fuchs.

Remove all adhering residues from the device. These residues can be hazardous to health.

Fill in the **Declaration of Contamination** form. You can find this form on the product detail page at www.pepperl-fuchs.com.

Enclose the filled in **Declaration of Contamination** form with the device.

Pepperl+Fuchs can examine and repair a returned device, only if a completed form is included in the return.

If needed, include special handling instructions with the device.

Specify the following information:

- Chemical and physical characteristics of the product
- Description of the application
- Description of the error that occurred (specify error code if possible)
- Operating time of the device

9. 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.

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.