

# Instruction Manual

## 1. Marking

Handheld Reader, 1-D IDM-Z1-160-D-1D-J1-SU-N-N0, IDM-Z1-160-D-1D-J1-SU-P-N0
Equipment protection level Gb ATEX certificate: IBExU 18 ATEX 1049 ATEX marking: Ⓜ II 2G Ex ib IIC T4 Gb IECEX certificate: IECEX IBE 18.0008 IECEX marking: Ex ib IIC T4 Gb
Equipment protection level Db ATEX certificate: IBExU 18 ATEX 1049 ATEX marking: Ⓜ II 2D Ex ib IIIC T135°C Db IECEX certificate: IECEX IBE 18.0008 IECEX marking: Ex ib IIIC T135°C Db
Handheld Reader, 2-D IDM-Z1-260-D-2D-J1-S1-N-N0
Equipment protection level Gb ATEX certificate: IBExU 18 ATEX 1049 ATEX marking: Ⓜ II 2G Ex ib op is IIB T4 Gb IECEX certificate: IECEX IBE 18.0008 IECEX marking: Ex ib op is IIB T4 Gb
Equipment protection level Db ATEX certificate: IBExU 18 ATEX 1049 ATEX marking: Ⓜ II 2D Ex ib op is IIIC T135°C Db IECEX certificate: IECEX IBE 18.0008 IECEX marking: Ex ib op is IIIC T135°C Db
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## 2. Validity

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

## 3. 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.

## 4. 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.

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Refer to the relevant EU-type examination certificate to see the relationship between the connected circuit type, the maximum permitted ambient temperature, the surface temperature, and the effective inner reactances.

The corresponding datasheets, manuals, declarations of conformity, EU-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](http://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](http://www.pepperl-fuchs.com).

## 5. 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.

The handheld reader allows the acquisition of data under extreme conditions. The device ensures the reliable reading of 1-D barcodes and/or 2-D stacked codes. The device is intended for use in industrial applications.

Take the intended use of the connected devices from the corresponding documentation.

The device is an electrical apparatus for hazardous areas.

## 6. Improper Use

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

## 7. Mounting and Installation

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

Only use accessories specified by the manufacturer.

### Requirements for Cables and Connection Lines

Only cables and connection lines that meet the requirements of the respective hazardous area certificate of the device may be connected to the intrinsically safe connection.

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

Observe the permissible cable type and cable length given in the respective hazardous area certificate.

Regarding the verification of intrinsic safety, observe the maximum permissible external capacitance of this device and the other devices in the circuit.

The dielectric strength of the insulation must be at least 500 V according to IEC/EN 60079-14.

Observe the permissible core cross section of the conductor.

Do not use aluminum wire for connection of the device.

Observe the minimum bending radius of the conductors.

Observe the grounding requirements for type of protection Ex i according to IEC/EN 60079-14.

## 8. Operation, Maintenance, Repair

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

Observe the warning markings.

The device must not be repaired, changed, or manipulated. In case of failure, always replace the device with an original device.

Do not use a damaged or polluted device.

If cleaning is necessary while the device is located in a hazardous area, in order to avoid electrostatic charging only use a clean damp cloth.

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

## 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.

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.