

Instruction Manual

1. Marking

Base Station IDM-Z1-X64-B-J1-BT-N0
Equipment protection level Gb ATEX certificate: IBExU 18 ATEX 1050 ATEX marking: Ⓜ II 2G Ex ib IIB T4 Gb IECEX certificate: IECEX IBE 18.0009 IECEX marking: Ex ib IIB T4 Gb
Equipment protection level Db ATEX certificate: IBExU 18 ATEX 1050 ATEX marking: Ⓜ II 2D Ex ib IIIC T135°C Db IECEX certificate: IECEX IBE 18.0009 IECEX marking: Ex ib 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.

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.

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.

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 device is used for transmitting the data captured by the handheld reader (1-D barcodes or 2-D stacked codes) to the host. This data from the handheld reader is received wirelessly via Bluetooth.

The device is an electrical apparatus for hazardous areas.

The device may be operated in the Zones 1 and 21 or in the Zones 12 and 22.

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

Use the device only within the specified ambient temperature range.

The device is intended for indoor use.

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

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.

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

When connecting intrinsically safe devices with intrinsically safe circuits of associated apparatus, observe the maximum peak values with regard to explosion protection (verification of intrinsic safety). Observe the standards IEC/EN 60079-14 or IEC/EN 60079-25.

The device must only be operated in the specified ambient temperature range and at the specified relative humidity without condensation.

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

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.

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

For intrinsically safe circuits, the dielectric strength of the insulation against other intrinsically safe circuits and against the shield must be at least 500 V according to IEC/EN 60079-14.

Keep the separation distances between all non-intrinsically safe circuits and intrinsically safe circuits according to IEC/EN 60079-14.

Observe the compliance of the separation distances between two adjacent intrinsically safe circuits according to IEC/EN 60079-14.

Requirements for Cables and Connection Lines

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

Do not use aluminum wire for connection of the device.

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

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

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.

Observe the minimum bending radius of the conductors.

Observe the maximum permissible length of cables and connection lines.

The insulation stripping length must be considered.

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

Requirements in Relation to Electrostatics

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

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

An electrostatic charge poses an ignition hazard in case of discharge.

8. Operation, Maintenance, Repair

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

Observe the warning markings.

Do not remove the warning markings.

Do not use a damaged or polluted device.

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

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

Do not connect or disconnect the electrical connection when energized.

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

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.

If the device is installed in potentially explosive dust atmosphere, remove dust layers which exceed 5 mm in regular intervals.

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

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

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.