Instruction Manual

1. Marking

Vibration Sensor VIM6***-*****-*P*-*******
ATEX certificate: CSANe 22 ATEX 1074 X ATEX marking: ⟨Ex⟩ II 2G Ex ib IIC T4 Gb ⟨Ex⟩ II 2D Ex ib IIIC T125°C Db
IECEx certificate: IECEx CSAE 22.0042X IECEx marking: II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T125°C Db

The *-marked letters of the type code are placeholders for versions of the device.

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2. Target Group, Personnel

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

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting 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, 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.

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.

The device is used to measure mechanical vibrations on machines and mechanical equipment.

The device is an intrinsically safe apparatus according to IEC/EN 60079-11.

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

Observe the instruction manual and the EU-type examination certificate of the installed apparatus.

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

5. Improper Use

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

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.

The device must not be installed in Zone 0.

The device must not be installed in Zone 20.

6. Mounting and Installation

Do not mount a damaged or polluted device.

Use mounting materials which are suitable to secure the device safely.

Ensure that all fasteners are present.

Observe the tightening torque of the screws.

Only use accessories specified by the manufacturer.

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

Ensure that the used plugs are in good condition and are not damaged or corroded.

Use shielded connection lines.

Observe the tightening torque of the cable glands.

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

The cables and connection lines must not be strained. Provide an adequate strain relief.

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.

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 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.

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

Include the metal housing components in the equipotential bonding.

Ensure that the equipotential bonding connections are in good condition, and are not damaged or corroded.

In order to protect the circuit and the load, install an external fuse.

7. Operation, Maintenance, Repair

Do not use a damaged or polluted device.

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 connect or disconnect the electrical connection when energized.

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

Close all unused connections with an appropriate protective cover.

Only operate the device with intrinsically safe circuits according to IEC/EN 60079-11.

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

Prevent the inside of the device from becoming contaminated when the connector is disconnected.

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.