Instruction Manual

1. Marking

Voltage Repeater HiC2095, HiD2096

ATEX certificate: BASEEFA 11 ATEX 0021X

ATEX marking: B II (1)D [Ex ia Da] IIIC , B II (1)D [Ex ia Da] IIIC , B I (M1) [Ex ia Ma] I

ATEX certificate: BASEEFA 11 ATEX 0022X ATEX marking: @ II 3G Ex ec IIC T4 Gc

IECEx certificate: IECEx BAS 11.0012X IECEx BAS 11.0013X

IECEx marking: [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I Ex ec IIC T4 Gc

North America Certifcates: E106378 (UL)

Class I, Division 2, Groups A-D, T4

Class I, Zone 2, AEx nA [ia] IIC T4, Ex nA [ia] IIC T4

Associated apparatus with intrinsically safe circuits for:

Class I, II, III, Division 1, Groups A-G

Class I, Zone 0, IIC

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Internet: www.pepperl-fuchs.com

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.

For mining applications, observe laws, standards, and directives applicable to the operating location.

The corresponding datasheets, manuals, declarations of conformity, EUtype 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.

Observe the instruction manuals for the associated termination boards.

If you use the device in safety-related applications, observe the requirements for functional safety. You can find these requirements in the functional safety documentation 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 in control and instrumentation technology (C&I technology) for the galvanic isolation of signals such as 20 mA and 10 V standard signals or alternatively for adapting or standardizing signals. The device has intrinsically safe circuits that are used for operating intrinsically safe field devices in hazardous areas.

The device provides a floating output to power a vibration sensor (e. g., Bently Nevada) or accelerometer in a explosion-hazardous area transfers the voltage signal from that sensor to the non explosion-

Use the device only within the specified ambient and operating conditions. Only use the device stationary.

Only use the module with the designated termination boards.

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

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

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

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

If you use the device in safety-related applications, observe the information for safety function and safe state.

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.

6. Mounting and Installation

Do not mount a damaged or polluted device.

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.

If used in areas with higher pollution degree, the device needs to be protected accordingly

Do not mount the device in the dust hazardous area.

The device must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1. Supply the device with a power supply that meets the requirements for safety extra-low voltage (SELV) or protective extra-low voltage (PELV).

Observe the installation instructions according to IEC/EN 60079-14. If you install the device in safety-related applications, observe the requirements for functional safety.

Requirements for Usage as Associated Apparatus

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 respective peak values of the field device and the associated apparatus with regard to explosion protection when connecting intrinsically safe field devices with intrinsically safe circuits of associated apparatus (verification of intrinsic safety). Also observe IEC/EN 60079-14 and IEC/EN 60079-25.

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 Equipment Protection Level Gc

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

The device must be installed and operated only in surrounding enclosures

- 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.

Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere. Only plug and pull the energized module in the absence of a potentially explosive atmosphere.

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

7. Operation, Maintenance, Repair

Do not use a damaged or polluted device.

Do not repair, modify, or manipulate the device.

If there is a defect, always replace the device with an original device. If you operate the device in safety-related applications, observe the requirements for functional safety. In case of operating in low demand mode, plan appropriate intervals for the proof test.

Requirements for Equipment Protection Level Gc

Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere. Only plug and pull the energized module in the absence of a potentially explosive atmosphere.

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

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.

