# **Instruction Manual**

## 1. Marking

Power feed module

KFD2-EB2, KFD2-EB2.R4A.B, KFD2-EB2.SP, KFD2-EB2.R4A.B.SP

ATEX certificate: UL 22 ATEX 2853 X ATEX marking: @ II 3G Ex ec nC IIC T4 Gc IECEx certificate: IECEx UL 16.0051X IECEx marking: Ex ec nC IIC T4 Gc

North America Certificates:

Class I, Division 2, Groups A-D; T4 or non-hazardous area

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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.

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.

#### 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 supply other devices of the K-System via Power Rail. A galvanically isolated switching contact issues the collective error message, which is transmitted via the Power Rail.

Use the device only within the specified ambient and operating conditions. The device is designed for mounting on a 35 mm DIN mounting rail according to EN 60715.

Only use the device stationary.

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

# 5. Improper Use

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

# 6. Mounting and Installation

Do not mount a damaged or polluted device.

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

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

Do not mount the device in the dust hazardous area.

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

The device must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1.

Only connect supplies that provide protection against electric shock to power feed modules (e. g. SELV or PELV).

Only connect or disconnect the connections within the specified ambient temperature range.

Place warning marking "Warning - Do not remove or replace fuse when energized!" visibly on the housing.

### **Requirements for Cables and Connection Lines**

If you use the device in an ambient temperature above 60 °C, use conductors rated for a temperature of at least 80 °C.

Observe the permissible core cross section of the conductor.

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

Use only one conductor per terminal.

When installing the conductors the insulation must reach up to the

Observe the tightening torque of the terminal screws.

### **Requirements for Equipment Protection Level Gc**

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 IFC/FN 60529.

Ensure that the surrounding enclosure can only be opened with a tool. Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere.

### 7. Operation, Maintenance, Repair

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

### Requirements for Equipment Protection Level Gc

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.

Only change the replaceable fuse, when the device is de-energized.

### 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.

