

Clamp Module F-KD-Ex2, F-KDR-Ex2

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Validity

Specific processes and instructions in this document require special precautions to guarantee the safety of the operating personnel.

System Operator and Personnel

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

Mounting, installation, commissioning, operation, maintenance and disassembly of any devices may only be carried out by trained, qualified personnel. The instruction manual must be read and understood.

Pertinent Laws, Standards, Directives, and further Documentation

Laws, standards, or directives applicable to the intended use must be observed. In relation to hazardous areas, Directive 1999/92/EC must be observed.

The corresponding data sheets, declarations of conformity, EC-type-examination certificates, certificates and Control Drawings if applicable (see data sheet) are an integral part of this document. You can find this information under 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.

Marking

Clamp module
Pepperl+Fuchs GmbH
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F-KD-Ex2 F-KDR-Ex2

table 1

Intended Use

F-KD-Ex2

This terminal block module is equipped with a diode network and is designed for use with the KFD2-SRA-Ex4 barrier with its exclusive 2:1 operating mode.

F-KDR-Ex2

This terminal block module is equipped with a diode/resistor network and is designed for use with the KFD2-SRA-Ex4 barrier with its exclusive 2:1 operating mode.

General

The device may be installed in the hazardous area of Zone 1.

The devices are only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

The devices fulfill a degree of protection IP 20 according to IEC/EN 60529.

The devices must be installed and operated only in an environment that ensures a pollution degree 2 (or better) according to IEC/EN 60644-1.

If used in areas with higher pollution degree, the devices need to be protected accordingly.

The device must only be operated in the ambient temperature range and at the relative humidity (non-condensing) specified.

Improper Use

Protection of the operating personnel and the overall system is not ensured if the product is not being used according to its intended purpose.

Do not install the device in the hazardous dust area.

Do not use the device for the isolation of circuits.

The device isn't used to separate intrinsically safe circuits from non-intrinsically safe circuits.

Delivery, Transport and Storage

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

Keep the original packaging. Always store and transport the device in the original packaging.

Always store the device in a clean and dry environment. The permitted storage temperature (see data sheet) must be considered.

Mounting/Installation

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

The installation instructions in accordance with IEC/EN 60079-14 must be observed.

Make sure there is no electrostatic discharge during the operation of the installed equipment. Therefore you must avoid electrostatic charge.

All separation distances between intrinsically safe and non-intrinsically safe circuits must be observed in accordance with IEC/EN 60079-14.

The type of protection is determined by the connected intrinsically safe circuit. The respective peak values of the field device and the associated apparatus with regard to explosion protection should be considered when connecting intrinsically safe field devices with intrinsically safe circuits of associated apparatus (verification of intrinsic safety). Make sure to observe IEC/EN 60079-14 and IEC/EN 60079-25.

Parameters

The permissible temperature class and the maximum permissible ambient temperature depends on the values of the connected intrinsically safe circuit:

Temperature class	T6	T6	T4
Voltage U _i	≤ 16 V	≤ 16 V	≤ 16 V
Current I _i	≤ 14 mA	≤ 21 mA	≤ 52 mA
Power P _i	≤ 35 mW	≤ 66 mW	≤ 169 mW
Ambient temperature	72 °C	66 °C	80 °C

table 2

Repair and Maintenance

The devices must not be repaired, changed or manipulated. If there is a defect, the product must always be replaced with an original device.

Disposal

Disposing of devices, packaging material, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.

