

Instruction Manual

Marking

Power Link KLD2-PL-Ex1.PA Segment Coupler 1 KFD2-BR-Ex1.3PA.93 Fieldbus Power Repeater KLD2-PR-Ex1.IEC1
EC-type examination certificate: PTB 99 ATEX 2142 II (1) G [Ex ia] IIC Ga II (1) D [Ex ia] IIIC Da PF 15 CERT 3527 X II 3G Ex ec IIC T4 Gc

table 1

Fieldbus Power Repeater KLD2-PR-Ex1.IEC
EC-type examination certificate: PTB 00 ATEX 2036 II (1) G [Ex ia] IIC Ga II (1) D [Ex ia] IIIC Da PF 15 CERT 3527 X II 3G Ex ec IIC T4 Gc

table 2

Pepperl+Fuchs GmbH Lilienthalstraße 200, 68307 Mannheim, Germany

table 3

Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

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.

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

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.

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.

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.

Intended Use

The device is designed to connect PROFIBUS PA segments to PROFIBUS DP.

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

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

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

The device is designed for mounting on a 35 mm DIN mounting rail according to EN 60715.

Improper Use

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

Mounting and Installation

Do not mount a damaged or polluted device.

Observe the ambient and operating conditions when mounting and installing the device.

The device may be used as associated apparatus.

Requirements for Cables and Connection Lines

Observe the following points when installing cables and connection lines:

Observe the permissible core cross-section of the conductor.

The insulation stripping length must be considered.

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

Observe the tightening torque of the screws.

Hazardous Area

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

Observe the installation instructions according to IEC/EN 60079-25.

The device may be installed in gas groups IIC, IIB, and IIA.

The intrinsically safe output circuits may lead into Zone 0.

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

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.

If the device has been used with an Ex ic circuit with voltage U_0 greater than voltage U_i specified for type of protection Ex ia or Ex ib, the device must not be connected to Ex ia or Ex ib circuits anymore.

Zone 2

The device may only be installed and operated in Zone 2 if it has been mounted in a surrounding enclosure with degree of protection IP54 according to IEC/EN 60529. The surrounding enclosure must correspond to equipment protection level Gc.

The device may be installed in Zone 2.

The device must be installed and operated only in an 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.

Operation, Maintenance, Repair

Do not repair, modify, or manipulate the device.

If there is a defect, always replace the device with an original device.

Do not use a damaged or polluted device.

Only manipulate the connections within the specified ambient temperature range.

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.

Keep the original packaging. 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.

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