

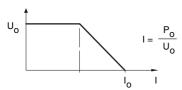


- Power supply of fieldbus segments according to IEC 61158-2
- Signal repeater for fieldbus topologies in accordance to FISCO
- 100 mA supply of the field side
- · Improves the fieldbus signal
- Extension of the transmission distance by means of opening a new fieldbus segment
- Integrated bus terminations
- Removable terminals and Power Rail connection for simple installation
- · Supply via Power Rail

Function

The KLD2-PR-Ex1.IEC1 improves digital communication signals within a fieldbus system. This fieldbus repeater separates an intrinsically safe field bus segment based on the FISCO model and a non-intrinsically safe field bus segment from each other galvanically; IEC61158-2 / ISA-S50.02 (i. e. FOUNDATION Fieldbus, PROFIBUS-PA). It delivers a constant voltage for supplying connected intrinsically field devices that are intrinsically safe and comply with the FISCO model regardless of the load. The repeater refreshes the signal course and the level of incoming digital communication signals. Up to 31 repeaters can be operated on the host. At the maximum output current, the repeater is able to extend the bus segment by at least 860 m with the use of an FF cable of Type A. AWG 18 (0.8 mm2). The repeater has a permanently integrated bus terminator on the field side. The bus terminator can be switched into the circuit on the host side. The power rail connections eliminate the need to loop through power supply and fieldbus lines.

Output characteristic



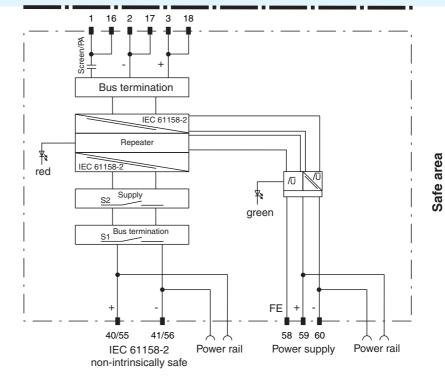
*) FISCO:

Fieldbus Intrinsically Safe Concept

Connection

Field side

IEC 61158-2-H1 [EEx ia] IIC



Host side

Composition

Front View Removable terminals blue LED red: Hardware error flashing: communication error, no activitities at the field side LED green: Power supply KLD2-PR-Ex1.IEC1 Switch S2 Pos. I host side supplied Pos. II host side not supplied Removable terminals green Switch S1 Bus termination host side

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Technical data KLD2-PR-Ex1.IEC1

Supplementary information

Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

KLD2-PR-Ex1.IEC1 **Technical data**

Accessories

Power Rail PR 03 insert component for DIN rail in accordance with DIN EN 50022, standard length

500 mm

UPR03 Power Rail insert component with no snap lock for the DIN rail in accordance with DIN EN

50022, Standard length 2 meters

The power supply component KFD2-EB.D2A.B provides power to the power rail redundantly with 24 V DC at a maximum cur-

rent of 2 A, with pick-up

provides power to the power rail with 24 V DC at a maximum current of 2 A, The component KFD2-EB.R2A.B

with pick-up A second device can be used to set up a redundant

device.

The component KFD2-EB2.B provides power to the power rail with 24 V DC at a maximum current of 4 A,

with pick-up and error message signal on the power rail.

Fieldbus KMD0-FT-Ex termination of the IEC line. The KMD0-FT-Ex must be connected to the last

IEC bus station terminating resistor.

KLD2-PR-Ex1.IEC isolator module and intrinsically safe power supply with repeater function for Fieldbus repeater Entity

devices in accordance with the FISCO or Entity model.

Fieldbus repeater, KLD2-PR-1.IEC Non-intrinsically-safe power supply with repeater function

non-intrinsically safe

KLD2-PR-NI1.IEC Isolating power supply with repeater function for 'non incendive' Fieldbus repeater,

Design of 'non incendive field circuits

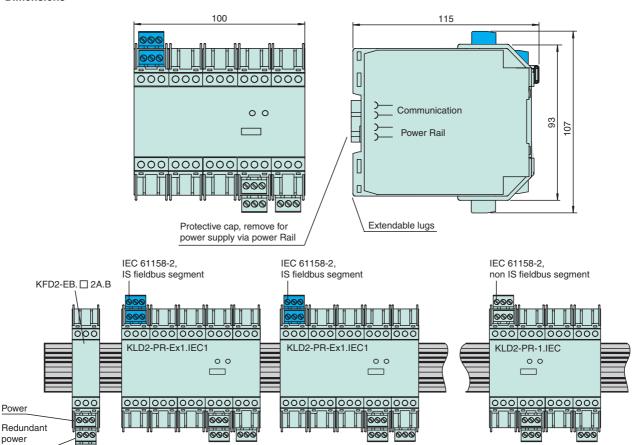
Fieldbus power pack, KLD2-STR-1.24.400.IEC Isolating power supply

non-intrinsically safe

Fieldbus power pack KLD2-STR-NI1.13.225.IEC Isolating power supply for 'non incendive' design of field circuits.

'non incendive'

Dimensions



IEC 61158-2. non IS host segment