



Power Feed Module KFD2-EB2

- Interface for Power Rail
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication

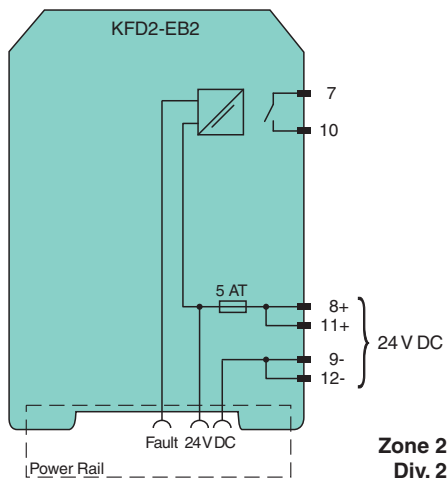
Power Feed Module



Function

The power feed module supplies the Power Rail with a voltage of 24 V DC and a maximum current of 4 A. In the event of a device fault or a wiring fault of any isolator on the Power Rail, the collective error messaging relay alerts the controller via a binary I/O point. This relay can be configured as normally-open or normally-closed. A green LED on the front of the device indicates the power state, and a red LED lights up during a fault condition. In the sense of functional safety (SIL) the device provides no dangerous failures. Thereby the safe condition of the supplied isolators must be defined as the de-energized state. Thus the device will not influence the safety calculation or the SIL value. This device is compatible with all versions of the Power Rail.

Connection



Technical Data

Supply

| | | |
|-------------------|-------|------------------------------------------------------------------------------------------------------------------------|
| Connection | | terminals 11+, 12- terminals 8+, 9- |
| Rated voltage | U_r | 20 ... 30 V DC The maximum rated operating voltage of the devices plugged onto the Power Rail must not be exceeded. |
| Fusing | | 5 AT/250 V AC recommended maximum utilization of the fuse: 80 % |
| Power dissipation | | ≤ 1 W |

Output

| | | |
|----------------|--|------------|
| Connection | | Power Rail |
| Output current | | max. 4 A |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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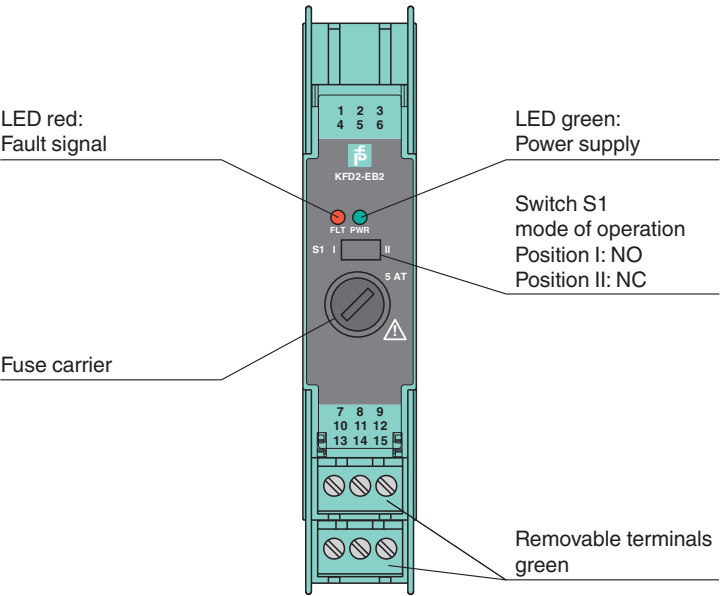
PEPPERL+FUCHS

Technical Data

| | | |
|----------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output voltage | | $U_i \geq \text{rated voltage } U_r = U_i - 0.6 \text{ V}$ |
| Fault signal | | relay output: NO contact |
| Contact loading | | 30 V AC/ 2 A / $\cos \phi \geq 0.7$; 40 V DC/ 2 A |
| Energized/De-energized delay | | approx. 20 ms / approx. 20 ms |
| Indicators/settings | | |
| Display elements | | LEDs |
| Control elements | | DIP switch |
| Configuration | | via DIP switches |
| Labeling | | space for labeling at the front |
| Directive conformity | | |
| Electromagnetic compatibility | | |
| Directive 2014/30/EU | | EN 61326-1:2013 (industrial locations) |
| Conformity | | |
| Electromagnetic compatibility | | NE 21:2017 |
| Degree of protection | | IEC 60529:2001 |
| Ambient conditions | | |
| Ambient temperature | | -40 ... 70 °C (-40 ... 158 °F) |
| Mechanical specifications | | |
| Degree of protection | | IP20 |
| Connection | | screw terminals |
| Mass | | approx. 100 g |
| Dimensions | | 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D) , housing type B2 |
| Mounting | | on 35 mm DIN mounting rail acc. to EN 60715:2001 |
| Data for application in connection with hazardous areas | | |
| Certificate | | UL 22 ATEX 2853 X |
| Marking | | Ⓔ II 3G Ex ec nC IIC T4 Gc |
| Directive conformity | | |
| Directive 2014/34/EU | | EN IEC 60079-0:2018+AC:2020 , EN IEC 60079-7:2015+A1:2018 , EN IEC 60079-15:2019 |
| International approvals | | |
| FM approval | | FM 22 US 0031 X |
| Control drawing | | 116-0160 |
| UL approval | | E106378 |
| CSA approval | | CoC 1051840 |
| IECEx approval | | |
| IECEx certificate | | IECEx UL 16.0051X |
| IECEx marking | | Ex ec nC IIC T4 Gc |
| General information | | |
| Supplementary information | | Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com . |

Assembly

Front view



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