



Power Feed Module

KFD2-EB2.SP

- Interface for Power Rail
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication
- Connection via spring terminals with push-in connection technology

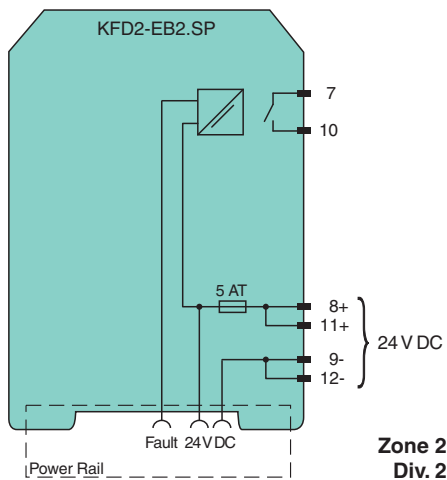
Power feed module with spring terminals



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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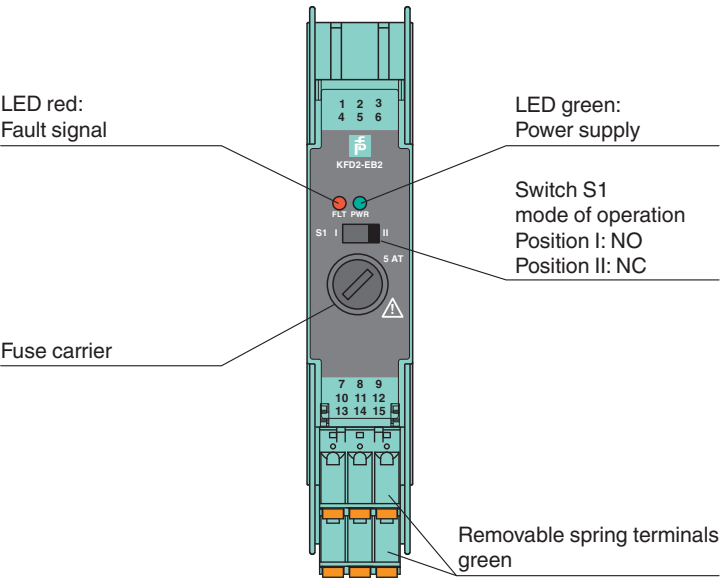
PEPPERL+FUCHS

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		spring 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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