Power feed module with bus terminals

KFD2-EB.RPI

Function

The power feed module KFD2-EB.RPI supplies the Power Rail with a voltage of 24 V DC and a 4 A maximum current. The application of the supply voltage is indicated on the front panel by means of a green LED (POWER ON).

In a fault condition, the relays switch open and the fault is indicated by means of a red LED on the front panel. The mode of operation can be adjusted with a plug-in jumper.

The dual designed power feed terminals have the ability to loop the supply (up to a max. of 10 A). On the KFD2-EB2.RPI, the 3 poles of the Power Rail for the bus connection are separately arranged on terminals 13, 14 and 15. The breakdown diode connected between terminals 8+, 11+ and 9-, 12- provides transient overvoltage protection per IEC 801-5.

Composition

Front View

Housing type C
(see Catalogue DIN-RAIL Housing system description)

LED red:
Fault signal

LED green:
Power supply

Removable terminals
green
## Technical data

### Supply
- **Connection**
  - terminals 11+, 12-
  - terminals 8+, 9-
- **Rated voltage**
  - 20 ... 30 V DC
  - The maximum rated operational voltage of the devices plugged onto the Power Rail must not be exceeded.

### Output
- **Power Rail feed**
  - output current: ≤ 4 A
- **Fault signal**
  - relay output: NO
- **Contact loading**
  - 24 V AC, 1 A/24 V DC, 1 A
- **Energized/de-energized delay**
  - approx. 20 ms / approx. 20 ms

### Directive conformity
- **Explosion protection**
  - Directive 94/9 EC
  - EN 50021
- **Electromagnetic compatibility**
  - NE 21
- **Protection degree**
  - IEC 60529

### Standard conformity
- **Ambient conditions**
  - Ambient temperature: -20 ... 60 °C (253 ... 333 K)
  - Damaging gas: acc. to ISA-S71.04-1985, severity level G3
- **Mechanical specifications**
  - **Protection degree**
    - IP20
  - **Connection**
    - terminal connection ≤ 2.5 mm²
  - **Mass**
    - approx. 100 g
  - **Dimensions**
    - 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in)
  - **Mounting**
    - DIN rail mounting

### Directive conformity
- **Data for application in conjunction with hazardous areas**
  - **Statement of conformity**
    - TÜV 00 ATEX 1618 X , observe statement of conformity
  - **Group, category, type of protection, temperature classification**
    - II 3 G Ex nAC IIC T4
- **Entity parameter**
  - FM control drawing: No. 116-0160
- **Suitable for installation in division 2**
  - yes
- **Safety parameter**
  - Control drawing: No. 116-0160

### Supplementary information
EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

### Notes
- The jumper is visible on the circuit board after removing the cover and the left component.

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**Adjustment of the jumpers**

Power Rail supply and bus

The jumper is visible on the circuit board after removing the cover and the left component.