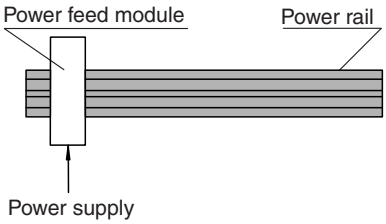
- 24 V DC supply voltage
- Device installation permissible in zone 2
- Supply current ≤ 4 A
- Fault signal output with adjustable mode of operation
- Bus access via terminals
- EMC acc. to NAMUR NE 21

## Function

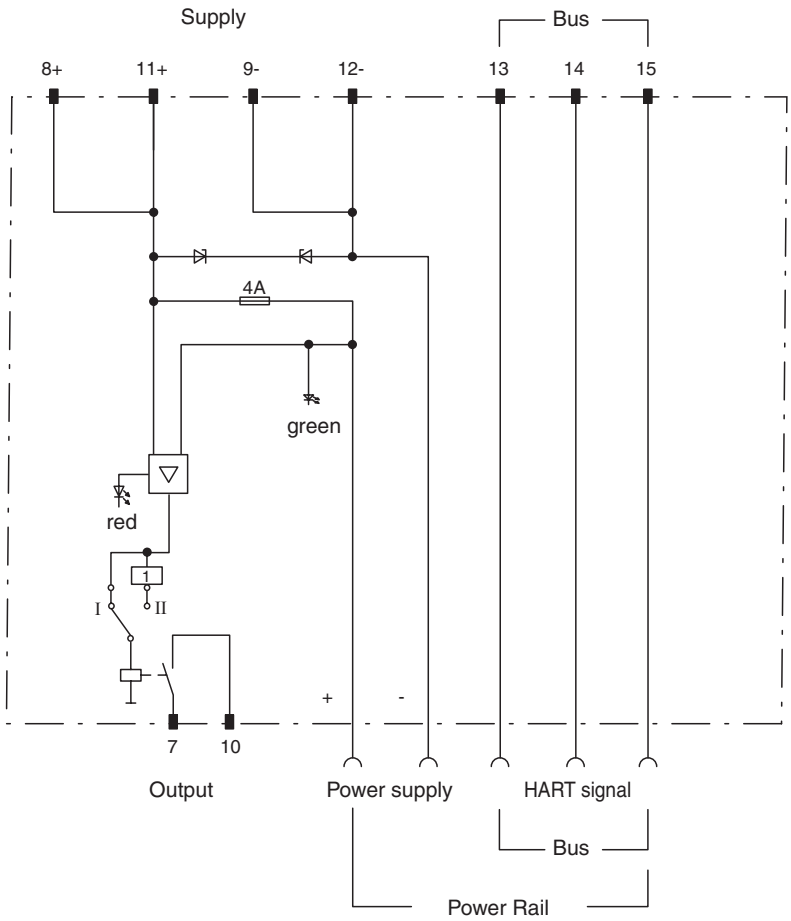
The power feed module KFD2-EB.RPI supplies the Power Rail with a voltage of 24 V DC and a 4 A maximum current. The application of the supply voltage is indicated on the front panel by means of a green LED (POWER ON).

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.




## Connection




## Composition

**Front View**

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

LED red:
Fault signal

LED green:
Power supply


Removable terminals
green

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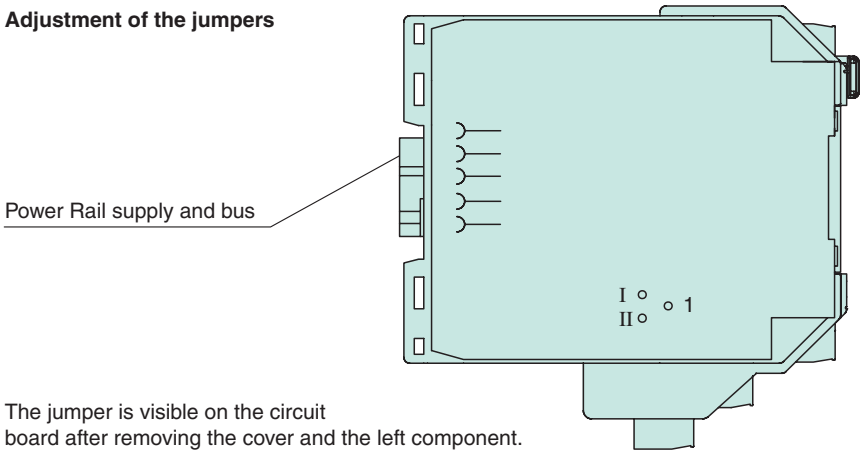
| | |
|---|---|
| **Supply** | |
| Connection | terminals 11+, 12-<br>terminals 8+, 9- |
| Rated voltage | 20 ... 30 V DC<br>The maximum rated operational voltage of the devices plugged onto the Power Rail must not be exceeded. |
| **Output** | |
| Power Rail feed | output current: ≤ 4 A |
| Fault signal | 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 |
| **Standard conformity** | |
| Electromagnetic compatibility | NE 21 |
| Protection degree | IEC 60529 |
| **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 $mm^2$ |
| Mass | approx. 100 g |
| Dimensions | 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) |
| Mounting | DIN rail mounting |
| **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 | ⟨Ex⟩ II 3 G EEx 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.

## Notes

**Adjustment of the jumpers**




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

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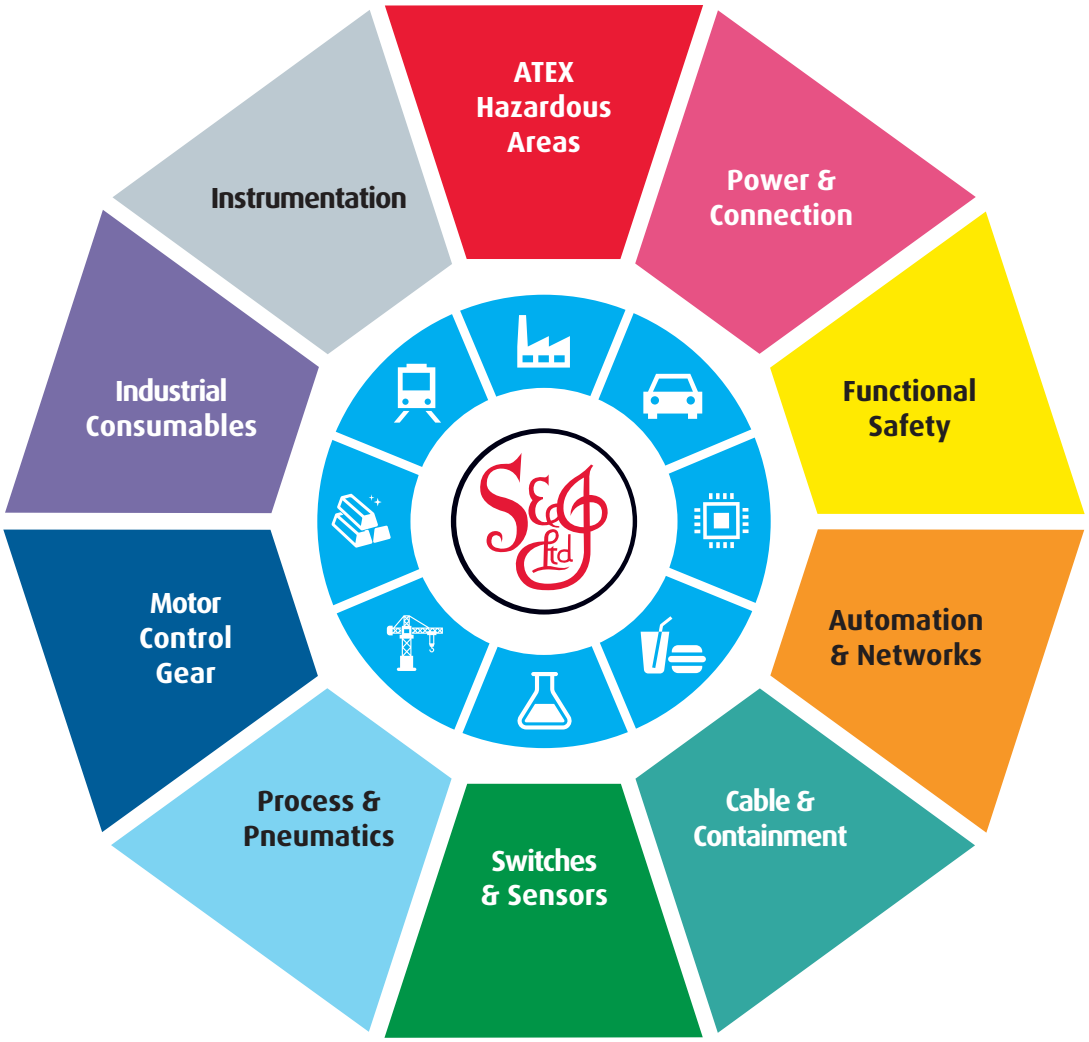


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