

Features

- 2-channel
- Dry contact input
- Reduces field wiring by 50%
- Supports 2:1 technology

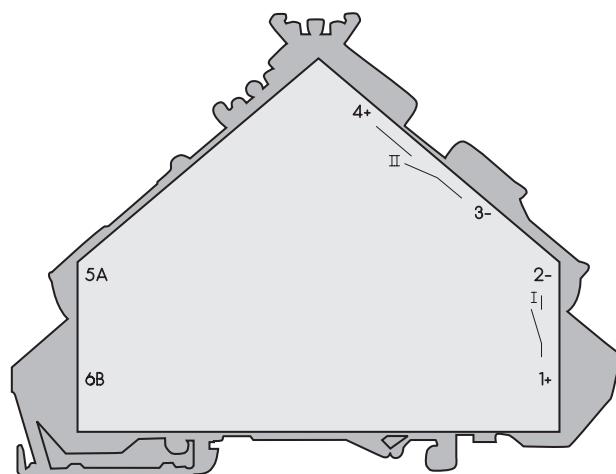
Function

This terminal block module is equipped with a diode/resistor network and is designed for use with the KFD2-SRA-Ex4 barrier with its exclusive 2:1 operating mode.

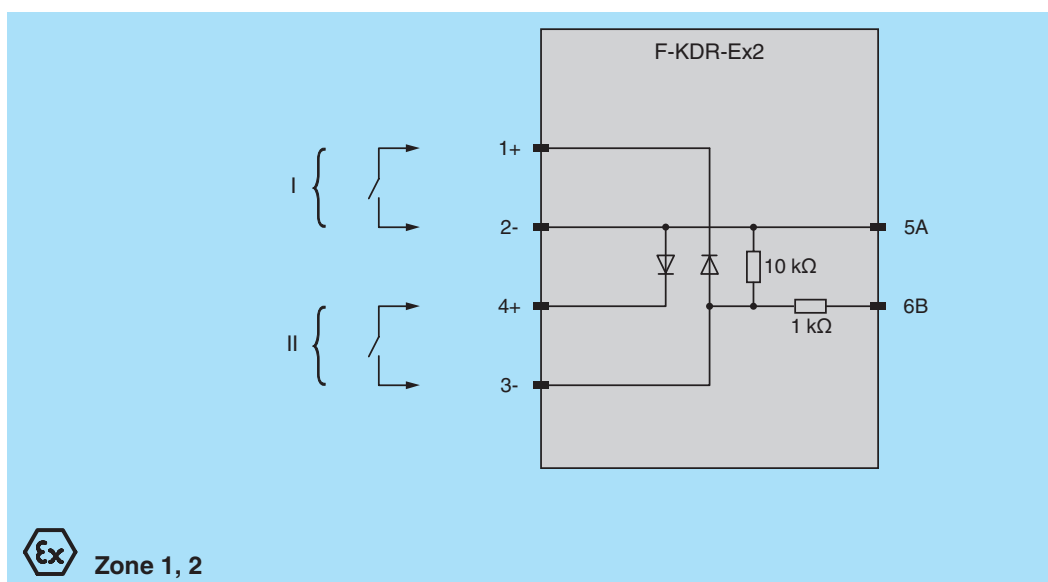
Built with diodes for polarity protection together with lead breakage and short circuit monitoring resistors, this terminal block is ideal for use with dry contacts located in the hazardous area.

Assembly

Side view



Connection



Zone 1, 2

Conformity		
Protection degree		IEC 60529:2001
Mechanical specifications		
Protection degree		IP20
Connection		spring terminals
Core cross-section		0.08 ... 2.5 mm ²
Mass		approx. 100 g
Dimensions		6.5 x 68.5 x 90.5 mm (0.2 x 2.7 x 3.6 in)
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		
Statement of conformity		DOC-0097 , see instruction manuals
Internal capacitance	C _i	0 F
Internal inductance	L _i	0 H
General information		
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Note

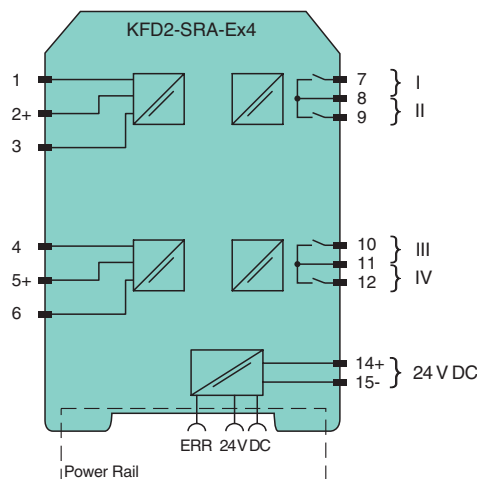
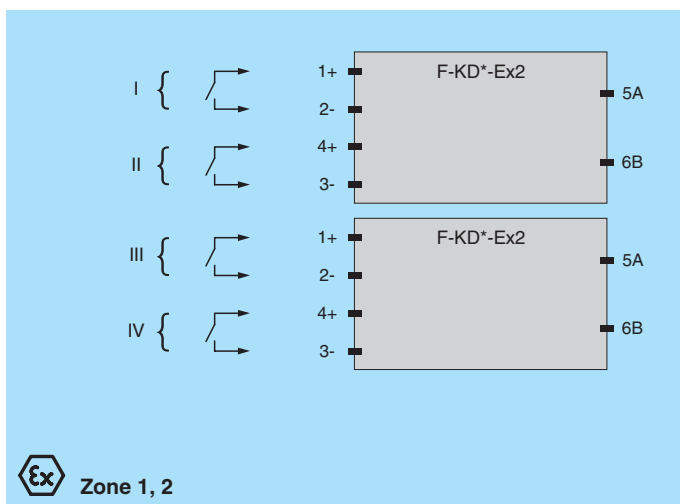
Protect from electrostatic charge.

Configuration

Requirements for using the 2:1-transfer method

In the 2:1-transfer method the switch amplifier transfers digital signals from the hazardous area by means of the patented new 2:1-transfer method. This method allows to transfer two independent digital signals by means of a single pair of conductors.

The prerequisite for the use of the 2:1-transfer method is that sensors with reverse polarity protected diode are used. Pepperl+Fuchs offers suitable sensors for alternating polarity. When using sensors without integrated reverse polarity protection diode, clamp modules F-KD-Ex2 or F-KDR-Ex2 (with diode network) have to be fitted. In case of F-KDR-Ex2, a resistor combination has been fitted in addition for line fault detection of mechanical switches.



Comments

When installing a serial diode, it has to be assured that the current in reverse direction is below a value of 0.15 mA in order to enable the line fault detection.

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