

- 1-channel
- · Control circuit EEx ia IIC
- · Reversible mode of operation
- Output I: signal output (changeover contact)
- Output II: optionally signal output/fault signal
- EMC acc. to NAMUR NE 21
- LB/SC monitoring
- Switch output
- Up to SIL2 acc. to IEC 61508/IEC 61511

100 V AC KFA4-SR2-Ex1.W.LB

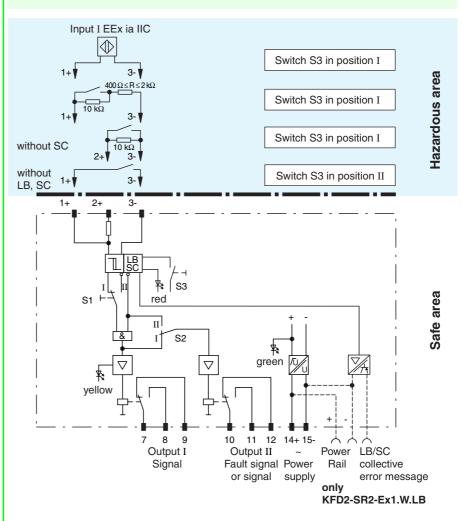
Function

The transformer isolated barrier transfers digital signals from the hazardous area. Sensors per EN 60947-5-6 (NAMUR) and mechanical contacts may be used as alarms. The control circuit is monitored for lead breakage (LB) and short circuit (SC). The external faults are indicated according to NAMUR NE44 by a red flashing LED.

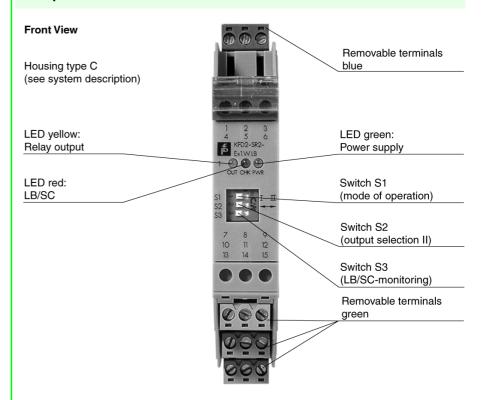
In the case of type KFD2-SR2-Ex1.W.LB, an LB/SC collevtive error message is in addition transmitted to the power feed module through the Power Rail. Relay output II can optionally be assigned to the input signal or the error message for all devices with the aid of switch S2.

The intrinsically safe input is securely separated from the output and mains power in accordance with EN 50020. Relay outputs must be securely separated from the mains power in accordance with IEC 61140. Relay outputs are galvanically separated from each other in accordance with IEC 61140.

Connection



Composition



Input/power supply

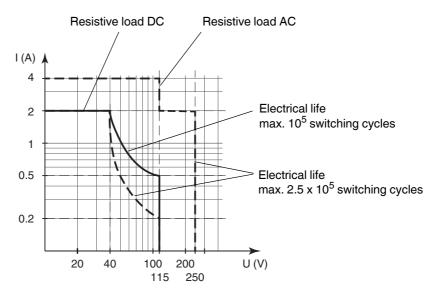
Directive conformity

safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V

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Directive 94/9/EC	EN 60079-0:2012, EN 60079-11:2012
International approvals	
FM approval	
Control drawing	116-0035
CSA approval	
Control drawing	116-0047
IECEx approval	IECEx PTB 11.0031
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
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.pepperlfuchs.com.

Maximum switching power of output contacts



The maximum number of switching cycles is depending on the electrical load and may be higher when reduced currents and voltages are applied.