Features

- 2-channel isolated barrier
- 24 V DC supply (Power Rail)
- Dry contact or NAMUR inputs
- · Passive transistor output, non-polarized
- · Line fault detection (LFD)
- · Reversible mode of operation
- Up to SIL2 acc. to IEC 61508

Function

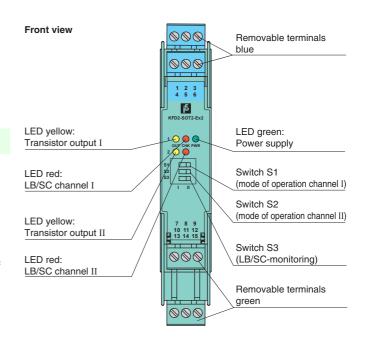
This isolated barrier is used for intrinsic safety applications. It transfers digital signals (NAMUR sensors/mechanical contacts) from a hazardous area to a safe area.

Each proximity sensor or switch controls a passive transistor output for the safe area load. The normal output state can be reversed using switch S1 for channel I and switch S2 for channel II. Switch S3 enables or disables line fault detection of the field circuit.

During an error condition, the transistors revert to their deenergized state and LEDs indicate the fault according to NAMUR NE44.

A unique collective error messaging feature is available when used with the Power Rail system.

Assembly

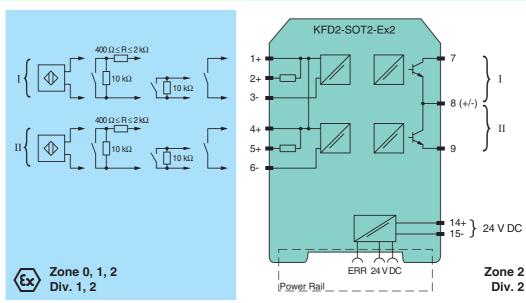






SIL₂

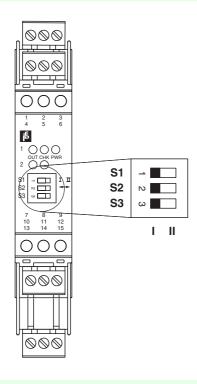
Connection



Div. 2

lmy pue	
>	
7	
Č	
q	
LC	
5	
2	
ά	
ά	
_	
5	
œ	
112.06.	
т	
S	
q	
7	
ŭ	ì
::	
7	
d	ľ
t	
Ċ	
_	
÷	
Ġ	
č	
÷	
C	
٤	
$\overline{}$	
ď	
÷	
201	
0	ľ
t	
atab ascal	
0	ľ
ú	
2	į

Directive 94/9/EC	EN 60079-0:2009, EN 60079-11:2007, EN 60079-15:2005, EN 50303:2000, EN 61241-11:2006
International approvals	
FM approval	
Control drawing	116-0035
CSA approval	
Control drawing	116-0047
IECEx approval	IECEx PTB 05.0011
Approved for	[Ex ia] IIC, [Ex ia] I, [Ex ia] IIIC
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.



Switch position

S	Function		Position
1	Mode of operation	with high input current	I
	Output I active	with low input current	II
2	Mode of operation	with high input current	ı
	Output II active	with low input current	II
3	Line fault detection	ON	ı
		OFF	II

Operating status

Control circuit	Input signal
Initiator high impedance/ contact opened	low input current
Initiator low impedance/ contact closed	high input current
Lead breakage, lead short-circuit	Line fault

Factory settings: switch 1, 2 and 3 in position I

Accessories

Power feed modules KFD2-EB2...

The power feed module is used to supply the devices with 24 V DC via the Power Rail. The fuse-protected power feed module can supply up to 100 individual devices depending on the power consumption of the devices. A galvanically isolated mechanical contact uses the Power Rail to transmit collective error messages.

Power Rail UPR-03

The Power Rail UPR-03 is a complete unit consisting of the electrical inset and an aluminium profile rail 35 mm x 15 mm. To make electrical contact, the devices are simply engaged.

The Power Rail must not be fed via the device terminals of the individual devices!