- · 2-channel isolated barrier
- 24 V DC supply (Power Rail)
- Dry contact or NAMUR inputs
- · 2 active transistor outputs
- · Reversible mode of operation
- Line fault detection (LFD)
- · Housing width 12.5 mm
- Up to SIL2 acc. to IEC 61508

Function

This isolated barrier is used for intrinsic safety applications.

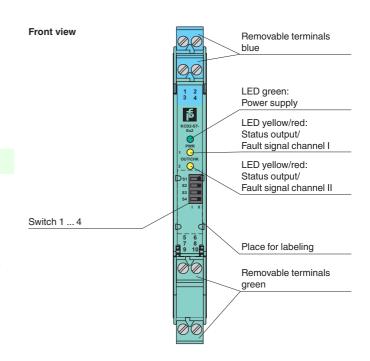
The device transfers digital signals (NAMUR sensors or dry contacts) from a hazardous area to a safe area.

Each input controls an active transistor output.

Via switches the mode of operation can be reversed and the line fault detection can be switched off.

A fault is signalized by LEDs acc. to NAMUR NE44 and a separate collective error message output.

Assembly

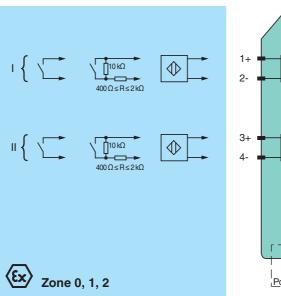


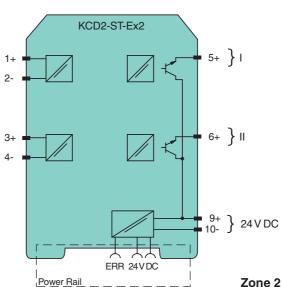




SIL2

Connection





Digital Input

19 ... 30 V DC

30 ... 20 mA + I_{out}

≤ 10 %

 U_n

In

Power Rail or terminals 9+, 10-

≤ 800 mW including maximum power dissipation in the output

General specifications

Signal type

Rated voltage

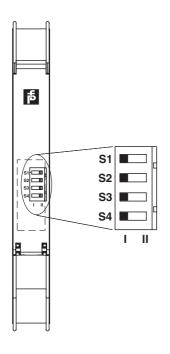
Rated current

Power loss

Supply Connection

Ripple

Input/Output	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V	
Input/power supply	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V	
Directive conformity		
Directive 94/9/EC	EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010	
International approvals		
UL approval		
Control drawing	116-0374 (cULus)	
IECEx approval	IECEx BAS 13.0046	
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.	



Switch settings

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	I
	output II (active)	with low input current	II
	Line fault detection of the	ON	ı
	input I	OFF	II
4	Line fault detection of the	ON	ı
	input II	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, 3 and 4 in position I

Accessories

Power feed module 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 150 individual devices depending on the power consumption of the devices. Collective error messages received from the Power Rail activate a galvanically-isolated mechanical contact.

Power Rail UPR-03

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

Profile Rail K-DUCT with Power Rail

The profile rail K-DUCT is an aluminum profile rail with Power Rail insert and two integral cable ducts for system and field cables. Due to this assembly no additional cable guides are necessary.



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