Features

- 2-channel isolated barrier
- 24 V DC supply (Power Rail)
- Dry contact or NAMUR inputs
- · Active transistor output
- · 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.

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

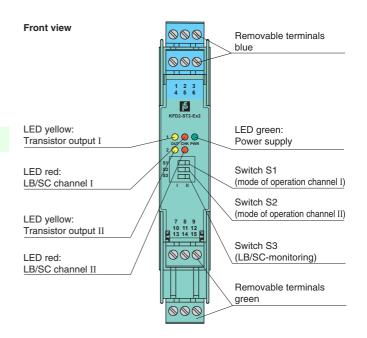
A proximity sensor or switch controls an active transistor output for the safe area load. The output changes state when the input signal changes state.

The output state can be reversed using switches S1 and S2. Switch S3 enables or disables line fault detection of the field circuit.

During an error condition, the transistor reverts to its deenergized state.

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

Assembly

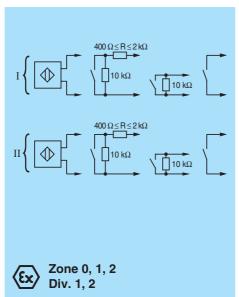


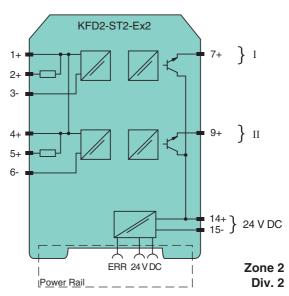




SIL2

Connection





Digital Input

20 ... 30 V DC

 U_n

Power Rail or terminals 14+, 15-

General specifications

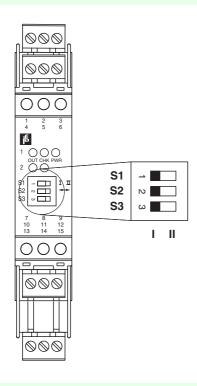
Signal type Supply Connection

Rated voltage

Singapore: +65 6779 9091

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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	ı
	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 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 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.

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!