Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Input 2-wire transmitters and 2-wire current sources
- Output 4 mA ... 20 mA or 1 V ... 5 V
- · Sink or source mode
- · Housing width 12.5 mm
- Up to SIL2 acc. to IEC 61508

Function

This isolated barrier is used for intrinsic safety applications.

The device supplies 2-wire SMART transmitters in a hazardous area, and can also be used with 2-wire SMART current sources.

It transfers the analog input signal to the safe area as an isolated current value.

Digital signals may be superimposed on the input signal in the hazardous or safe area and are transferred bi-directionally.

Selectable output of current source, sink mode, or voltage output is available via DIP switches.

If the HART communication resistance in the loop is too low, the internal resistance of 250 Ω between terminals 6 and 8 can be used.

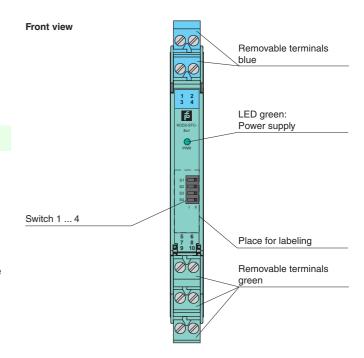
Test sockets for the connection of HART communicators are integrated into the terminals of the device.

Application

The device supports the following SMART protocols:

- HART
- BRAIN

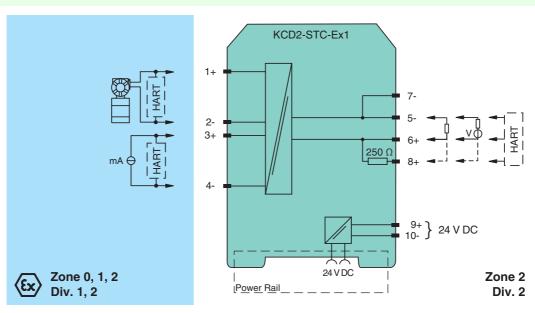
Assembly





SIL2

Connection



Voltage

ENG.xm

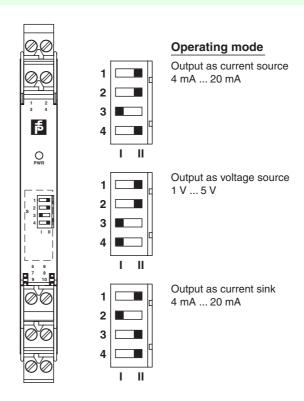
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Current	Io	100 mA
Power	P_{o}	25 mW
Statement of conformity		Pepperl+Fuchs
Group, category, type of protection, temperature classification		⟨₨ II 3G Ex nA II T4 X
Directive conforn	nity	
Directive 94/9/EC		EN 50014, EN 50020, pr EN 61241-11, EN 50284, EN 60079-15
International approvals		
FM approval		
Control drawing		16-533FM-12 (cFMus)
UL approval		
Control drawing		16-533FM-12 (cULus)
IECEx approval		IECEx CES 06.0001
Approved for		[Ex ia] IIC
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.



Factory settings: output as current source 4 mA ... 20 mA

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!