Features

- · 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- · 2-wire transmitters or current sources
- Output 0/4 mA ... 20 mA
- · 2 relay contact outputs
- Programmable high/low alarm
- Configurable by PACTwareTM or ke ypad
- Line fault detection (LFD)
- Up to SIL2 acc. to IEC 61508

Function

This isolated barrier is used for intrinsic safety applications. It is suitable for a variety of measuring tasks.

Active power supplies as well as 2-wire transmitters can be connected. Two relays and an active 0/4 mA ... 20 mA current source are available as outputs.

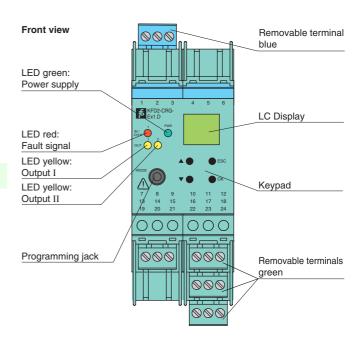
The relay contacts and the current output can be integrated in security-relevant circuits. The trip values of the relays are derived from the transmitter signal or the signal of a connected power source. The current output is easily scaled. The input has lead breakage and short circuit monitoring.

The unit is easily programmed by the use of a keypad located on the front of the unit or with the $PACT_{ware}^{TM}$ configuration software.

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

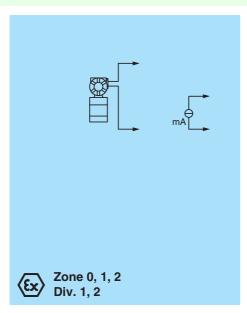
For additional information, refer to the manual and www.pepperl-fuchs.com.

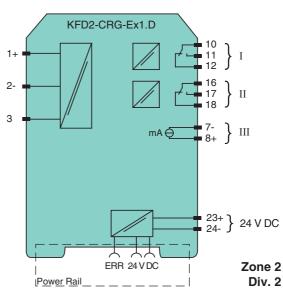
Assembly





Connection





Data for application in conjunction with hazardous areas		
EC-Type Examination Certificate		TÜV 01 ATEX 1701, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		(x) II (1)GD [EEx ia] IIC [circuit(s) in zone 0/1/2]
Input		EEx ia IIC
Supply		
Safety maximum voltage U _m		40 V DC (Attention! The rated voltage can be lower.)
Equipment		terminals 1+, 3-
Voltage	Uo	25.8 V
Current	I _o	93 mA
Power	P _o	0.603 W
Equipment		terminals 2-, 3
Voltage	U _i	< 30 V
Current	l _i	115 mA
Voltage	Üo	5 V
Current	I _o	0.3 mA
Power	P _o	0.3 mW
Equipment	,	terminals 1+, 2 / 3-
Voltage	U _o	25.8 V
Current	I _o	112 mA
Power	P _o	720 mW
Output I, II	,	terminals 10, 11, 12; 16, 17, 18 non-intrinsically safe
Safety maximum voltage U _m		253 V AC / 40 V DC (Attention! U _m is no rated voltage.)
Contact loading		253 V AC/2 A/cos φ > 0.7; 40 V DC/2 A resistive load (TÜV 01 ATEX 1701) 50 V AC/2 A/cos φ > 0.7; 40 V DC/2 A resistive load (TÜV 02 ATEX 1885 X)
Output III		terminals 8+, 7- non-intrinsically safe
Safety maximum voltageU _m U _m		40 V (Attention! The rated voltage can be lower.)
Interface		RS 232
Safety maximum voltage U _m		40 V (Attention! The rated voltage can be lower.) , RS 232
Statement of conformity		TÜV 02 ATEX 1885 X , observe statement of conformity
Group, category, type of protection, temperature classification		(x) II 3G EEx nAC IIC T4 [device in zone 2]
Electrical isolation		
Input/other circuits		safe electrical isolation acc. to EN 50020, voltage peak value 375 V
Directive conform	nity	
Directive 94/9 EC		EN 50014, EN 50020, EN 50021
International approvals		
CSA approval		
Control drawing		116-0202
General informa	ition	
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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 \times 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!

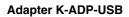
PACTwareTM

Device-specific drivers (DTM)

Adapter K-ADP1

Programming adapter for parameterisation via the serial RS 232 interface of a PC/Notebook

For programming, please use the new version of adapter K-ADP1 (part no. 181953, connector length 14mm). When using the previous version K-ADP1 (connector length 18 mm) the plug is exposed by approx. 3 mm. The function is not affected.



Programming adapter for parameterisation via the serial USB interface of a PC/Notebook