Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Voltage input 0 V ... 10 V
- Voltage output 0 V ... 5 V
- Accuracy 0.1 %
- Up to SIL 2 acc. to IEC 61508

Function

This isolated barrier is used for intrinsic safety applications.

The device drives I/P converters, electrical valves, and positioners in the hazardous area.

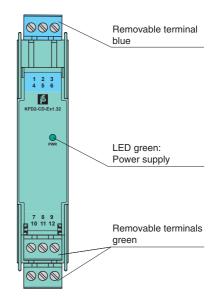
The device has voltage input and voltage output.

The signal is transmitted to terminals 9 and 10 across an amplifier and the DC/DC converter within the allowable voltage range. A voltage limiter circuit protects the amplifier from incorrect input switching and overvoltage, but will draw current through a 50 mA fuse during operation. The fuse can be changed only by the manufacturer.

At least 20 mA is available within the allowable supply voltage range at terminals 1 and 2 which means that with 10 V output voltage, a load of at least 500 Ω must be connected.

Assembly

Front view

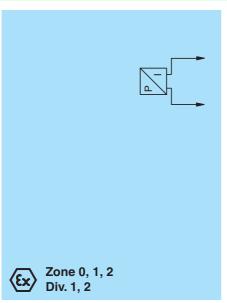


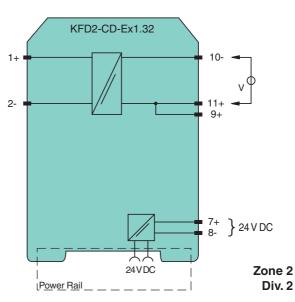
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SIL 2

Connection





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General specifications	
Signal type	Analog output
Functional safety related parameters	
Safety Integrity Level (SIL)	SIL 2
Supply	
Connection	Power Rail or terminals 7+, 8-
Rated voltage U _r	20 35 V DC
Ripple	within the supply tolerance
Rated current I _r	≤ 20 mA
Power dissipation	1.4 W
Input	
Connection side	control side
Connection	terminals 9+, 10-, 11+
Input current	≤ 100 μA up to 50 °C (122 °F) at 10 V
Limit	≤ 12 V DC
	0 10 V
Transmission range	0 10 V
Output	
Connection side	field side
Connection	terminals 1+, 2-
Current	≤ 20 mA
Load	output resistance: \leq 3 Ω
Voltage	0 5 V
Transfer characteristics	
Accuracy	0.1 %
Deviation	
After calibration	≤ ± 0.1 % incl. non-linearity and hysteresis at 20 °C (68 °F)
Influence of ambient temperature	≤ ± 0.01 %/K
Rise time	< 10 ms
Galvanic isolation	
Input/power supply	functional insulation, rated insulation voltage 50 V AC
Indicators/settings	
Display elements	LED
Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	EN 01320-1.2013 (Industrial locations)
•	IEC 60529:2001
Degree of protection	
Protection against electrical shock	UL 61010-1:2012
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	
Degree of protection	IP20
Connection	screw terminals
Mass	approx. 100 g
Dimensions	20 x 107 x 115 mm (0.8 x 4.2 x 4.5 inch) , housing type B1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	BAS 02 ATEX 7203 X
Marking	(₤x) (1)G [Ex ia Ga] C , (₤x) (1)D [Ex ia Da] C , (₹x) (M1) [Ex ia Ma]
Certificate	TÜV 99 ATEX 1499 X
Marking	
Directive conformity	<u> </u>
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
International approvals	LIN 00070 0.2012TAT1.2010, LIN 00073-11.2012, LIN 00073-10.2010
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FM approval	110.0440
Control drawing	116-0440
UL approval	
Control drawing IECEx approval	116-0441 (cULus) IECEx BAS 05.0041X
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information	



Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.
Accessories	
Optional accessories	- power feed module KFD2-EB2(.R4A.B)(.SP) - universal power rail UPR-03(-M)(-S) - profile rail K-DUCT-BU(-UPR-03)