Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Current input 4 mA ... 20 mA
- 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.

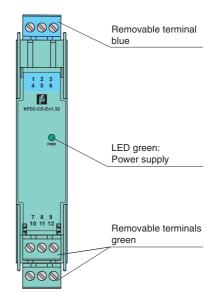
The device has current input and voltage output.

A current limit circuit in series to terminal 9 protects the device from damage. The maximum voltage drop at the input is 4 V DC, allowing for the connection of several devices due to the low voltage drop in order to maintain multiple galvanically isolated outputs (signal duplication).

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

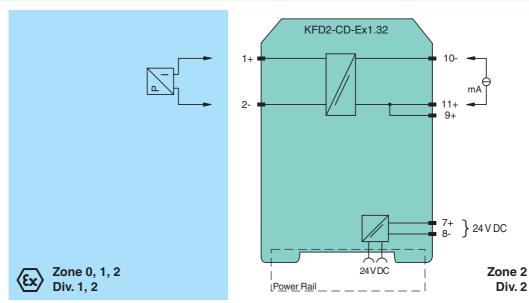


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SIL 2

Connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

General specifications	
•	Analog output
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+
Voltage drop	approx. 4 V at 20 mA
Input current	\leq 100 μ A up to 50 °C (122 °F) at 10 V
Limit	≤ 40 mA
Transmission range	4 20 mA
Output	
Connection side	field side
Connection	terminals 1+, 2-
Current	≤ 20 mA
Load	output resistance: $\leq 3 \Omega$
Voltage	05 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	TO THE
Input/power supply	functional insulation, rated insulation voltage 50 V AC
Indicators/settings	Turiotional modulation, rated modulation voltage 50 v 70
Display elements	LED
Labeling	space for labeling at the front
•	space for labelling at the front
Directive conformity	
Electromagnetic compatibility	ENI C100C 1-0010 (industrial lanations)
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	VEO 2000 2004
Degree of protection	IEC 60529:2001
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	(₺) (1)G [Ex ia Ga] C , (₺) (1)D [Ex ia Da] IC , (₺) (M1) [Ex ia Ma]
Certificate	TÜV 99 ATEX 1499 X
Marking	
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
International approvals	
• •	
FM approval	116-0440
FM approval Control drawing	116-0440
FM approval Control drawing UL approval	
FM approval Control drawing	116-0440 116-0441 (cULus) IECEx BAS 05.0041X
FM approval Control drawing UL approval Control drawing IECEx approval	116-0441 (cULus) IECEx BAS 05.0041X
FM approval Control drawing UL approval Control drawing	116-0441 (cULus)

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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)