

Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Voltage input 0 V ... 12 V
- Voltage output 0 V ... 12 V

Function

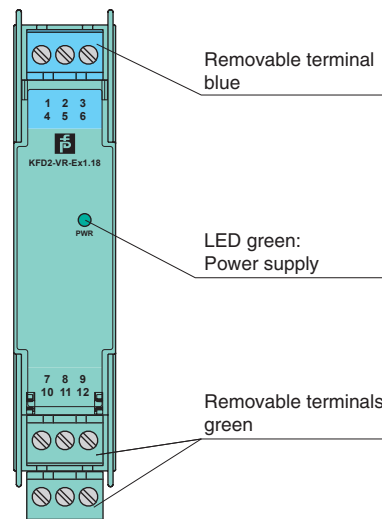
This isolated barrier is used for intrinsic safety applications. It transfers voltage signals from hazardous areas to safe areas.

The input voltage of the terminals 4 and 5 is transferred to the terminals 7 and 8. The terminals 4 and 8 have the same polarity.

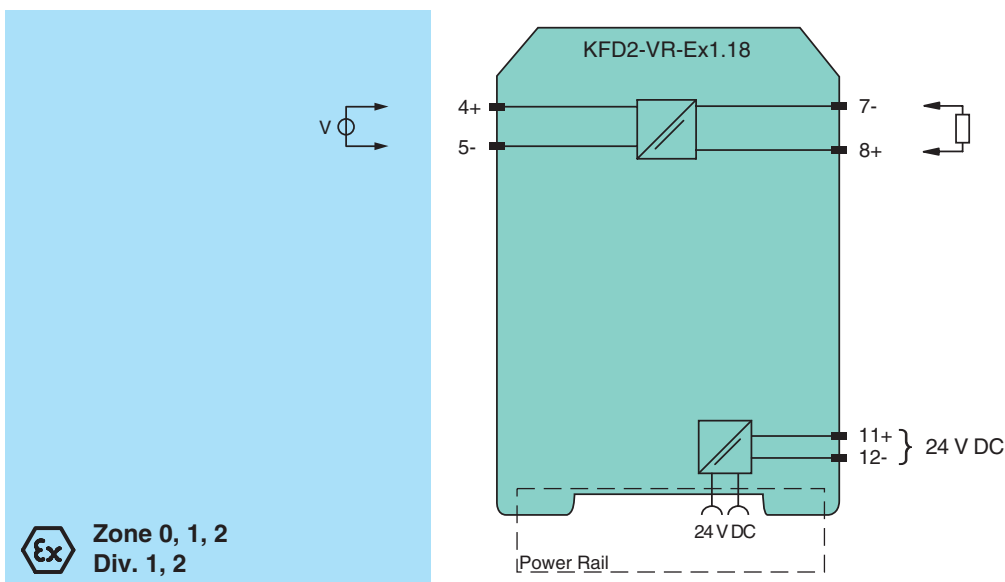
The device repeats 0 V ... 12 V signals from strain gauges, transducers, and inductive motion sensors with signal frequencies up to 1.2 kHz.

Assembly

Front view



Connection



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

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General specifications		
Signal type		Analog input
Supply		
Connection		Power Rail or terminals 11+, 12-
Rated voltage	U_r	20 ... 35 V DC
Ripple		within the supply tolerance
Rated current	I_r	< 20 mA
Input		
Connection side		field side
Connection		terminals 4+, 5-
Input resistance		$\geq 10 \text{ M}\Omega$
Transmission range		0 ... 12 V
Offset voltage/current		< 2 mV / < 7 nA
Output		
Connection side		control side
Connection		terminals 7-, 8+
Voltage		0 ... 12 V
Output resistance		$\leq 20 \Omega$
Transfer characteristics		
Cut-off frequency		1.2 kHz (-3 dB)
Deviation		
After calibration		$\pm 5 \text{ mV}$ at 20 °C (68 °F)
Influence of ambient temperature		$\leq 0.005 \%$ of range per K
Rise time		$\leq 0.4 \text{ ms}$
Galvanic isolation		
Output/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		
Electromagnetic compatibility		
		NE 21
Degree of protection		
		IEC 60529
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 01 ATEX 7262
Marking		
		Ex II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C $\leq T_{\text{amb}} \leq 60$ °C) , [circuit(s) in zone 0/1/2]
Voltage		
	U_o	18 V
Current		
	I_o	4.2 mA
Power		
	P_o	19 mW
Supply		
Maximum safe voltage		
	U_m	250 V (Attention! The rated voltage is lower.)
Type of protection [Ex ia]		
Output		
Maximum safe voltage		
	U_m	250 V (Attention! The rated voltage is lower.)
Certificate		
		BASEEFA 10 ATEX 0079X
Marking		
		Ex II 3G Ex ec IIC T4 Gc [device in zone 2]
Galvanic isolation		
Input/Output		
		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Input/power supply		
		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity		
Directive 2014/34/EU		
		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-7:2015+A1:2018
International approvals		
FM approval		
Control drawing		
		116-0129

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 **PEPPERL+FUCHS**

UL approval	
Control drawing	116-0173 (cULus)
CSA approval	
Control drawing	116-0132
IECEX approval	
IECEX certificate	IECEX BAS 10.0040X
IECEX marking	Ex ec IIC T4 Gc
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	<ul style="list-style-type: none"> - power feed module KFD2-EB2(.R4A.B)(.SP) - universal power rail UPR-03(-M)(-S) - profile rail K-DUCT-BU(-UPR-03)



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