

**Features**

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- RS 232 input/output

**Function**

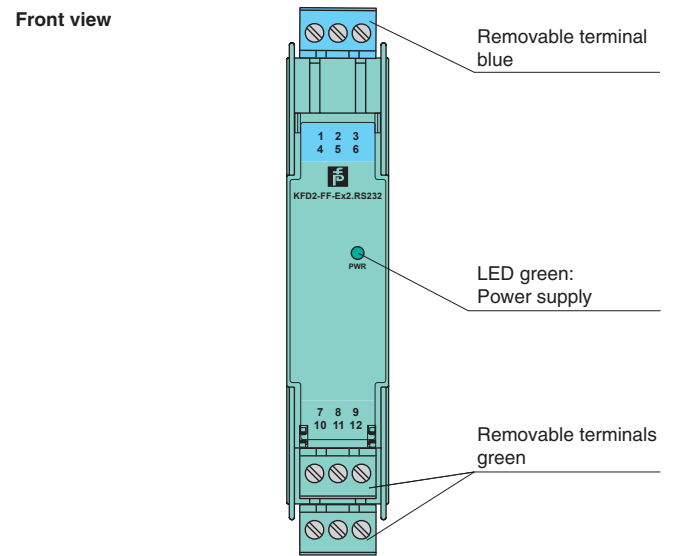
This isolated barrier is used for intrinsic safety applications. It is a repeater for the bi-directional transfer of RS 232 signals.

The input and output circuits are intrinsically safe and designed to transmit and receive RS 232 signals between the safe area and the hazardous area.

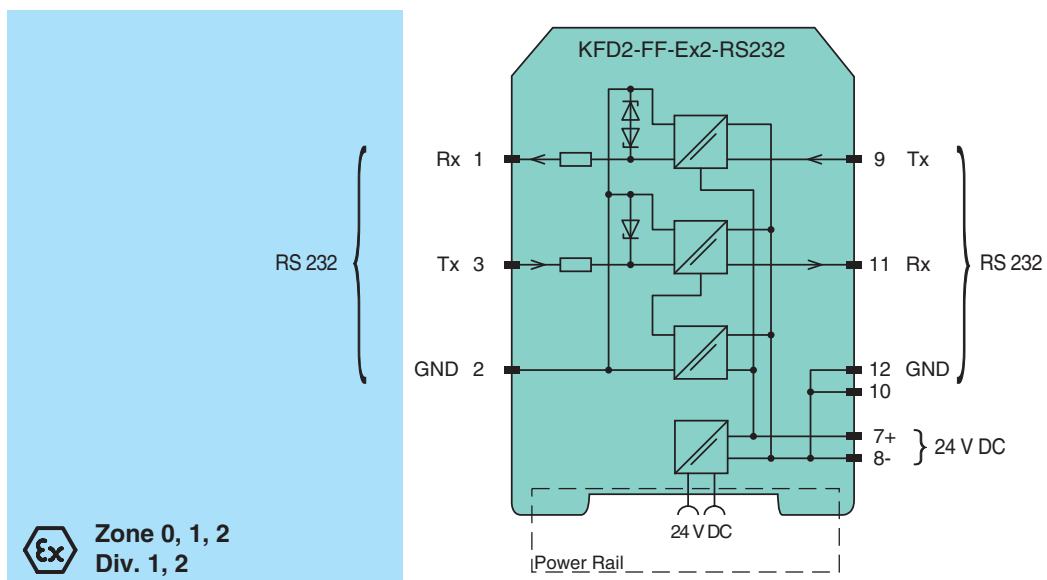
This barrier accepts input signals in the ±3 V ... ±15 V range providing a nominal ±10 V output that is independent of the input voltage.

The maximum rate of data exchange is 20 kBits per second.

**Assembly**



**Connection**



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

<b>General specifications</b>		
Signal type		Analog input
<b>Supply</b>		
Connection		Power Rail or terminals 7+, 8-
Rated voltage	$U_r$	19 ... 30 V DC
Rated current	$I_r$	approx. 40 mA
Power consumption		approx. 1.5 W
<b>Control circuit</b>		
Interface		RS 232
Input		
Connection		terminal 9
Signal		logic 0: +3 ... +15 V logic 1: -3 ... -15 V
Output		
Connection		terminal 11
Signal		logic 0: +9 ... +12 V logic 1: -9 ... -12 V
<b>Field circuit</b>		
Interface		RS 232
Input		
Connection		terminals 2, 3
Signal		logic 0: +3 ... +15 V logic 1: -3 ... -15 V
Output		
Connection		terminals 1, 2
Signal		logic 0: +9 ... +12 V logic 1: -9 ... -12 V
Short-circuit current		≤ 40 mA per channel
<b>Indicators/settings</b>		
Display elements		LED
Labeling		space for labeling at the front
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
<b>Conformity</b>		
Degree of protection		IEC 60529
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>		
Degree of protection		IP20
Connection		screw terminals
Mass		approx. 110 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
<b>Data for application in connection with hazardous areas</b>		
EU-Type Examination Certificate		BAS 02 ATEX 0116
Marking		⊕ II (1)G [Ex ia Ga] IIC , ⊕ II (1)D [Ex ia Da] IIIC , ⊕ I (M1) [Ex ia Ma] I (-40 °C ≤ T <sub>amb</sub> ≤ 60 °C)
Equipment		terminals 1, 2, 3
Input		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
Voltage	$U_o$	19.9 V
Current	$I_o$	75 mA
Power	$P_o$	0.2 W
Internal capacitance	$C_i$	0 F
Internal inductance	$L_i$	0 H
<b>Supply</b>		
Maximum safe voltage	$U_m$	250 V <sub>rms</sub> on terminals 7, 9 and 11; 0 V on terminals 8, 10 and 12 and on Power Rail connector (Attention! The rated voltage can be lower.)
Type of protection [EEx ia]		
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
<b>International approvals</b>		
UL approval		
Control drawing		116-0173 (cULus)
IECEx approval		

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IECEX certificate	IECEX BAS 05.0001
IECEX marking	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .
<b>Accessories</b>	
Optional accessories	<ul style="list-style-type: none"> <li>- power feed module KFD2-EB2(.R4A.B)(.SP)</li> <li>- universal power rail UPR-03(-M)(-S)</li> <li>- profile rail K-DUCT-BU(-UPR-03)</li> </ul>

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