

Features

- 1-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 100 mA at 10 V DC
- Up to SIL3 acc. to IEC 61508

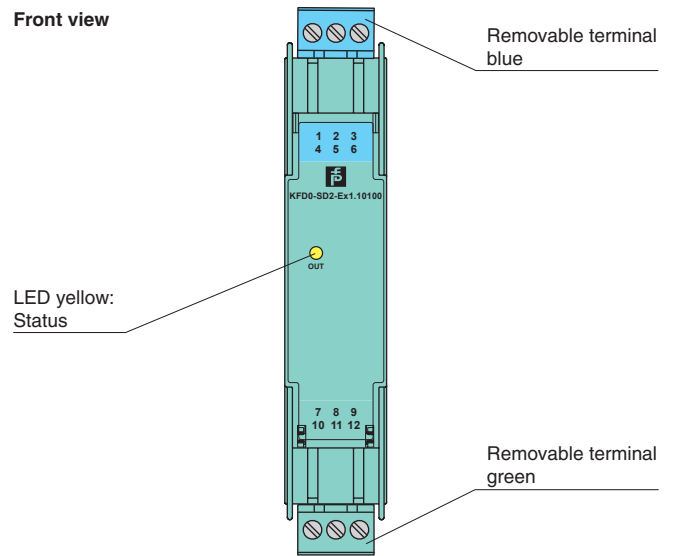
Function

This isolated barrier is used for intrinsic safety applications. It supplies power to solenoids, LEDs, and audible alarms located in a hazardous area.

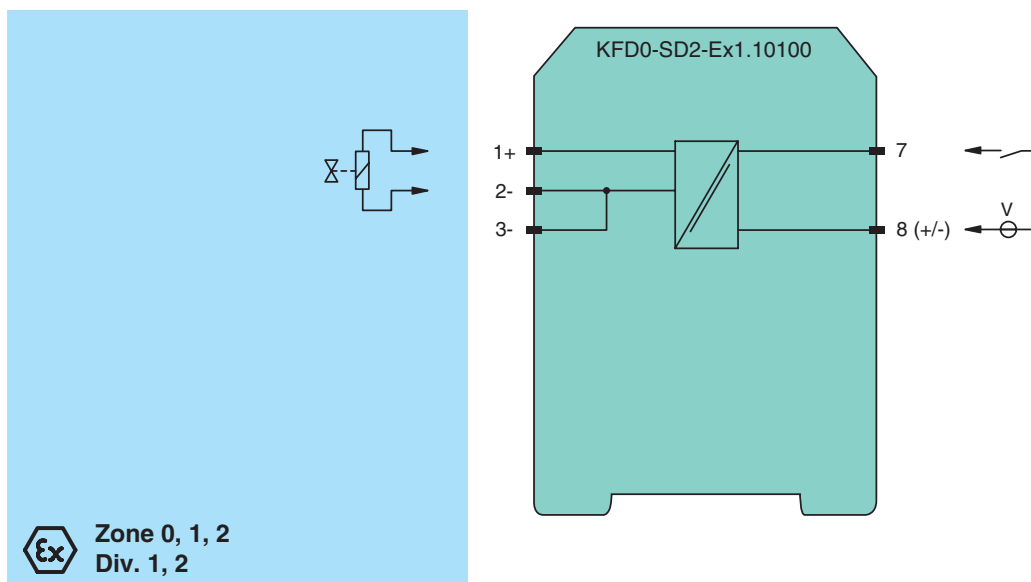
It is loop powered, so the available energy at the output is received from the input signal. The output signal has a resistive characteristic. As a result the output voltage and current are dependent on the load and the input voltage.

At full load, 10 V at 100 mA is available for the hazardous area application.

Assembly



Connection



Release date 2013-08-07 15:40 Date of issue 2015-02-16 133237_eng.xml

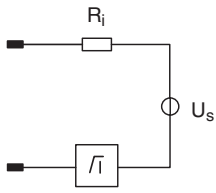
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

General specifications		
Signal type		Digital Output
Supply		
Rated voltage	U_n	loop powered
Power loss		< 1.2 W ($U_i \leq 30$ V)
Input		
Connection		terminals 7, 8
Rated voltage	U_n	20 ... 35 V DC
Current		150 mA at 20 V input voltage, load = 100 Ω 100 mA at 35 V input voltage, load = 100 Ω
Output		
Connection		terminals 1+, 2-
Internal resistor	R_i	$\leq 68 \Omega$
Current	I_e	≤ 100 mA
Voltage	U_e	≥ 10 V
Open loop voltage	U_s	≥ 16.2 V
Output rated operating current		100 mA
Output signal		These values are valid for the rated operating voltage 20 ... 35 V DC.
Energized/De-energized delay		single operation: 300 μ s/50 μ s; periodical: 5 μ s / 50 μ s
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
Conformity		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC 60529:2001
Protection against electrical shock		UL 61010-1:2004
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP20
Mass		approx. 100 g
Dimensions		20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		BASEEFA 06 ATEX 0252 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		Ex II (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C $\leq T_{amb} \leq 60$ °C)
Voltage	U_o	17 V
Current	I_o	271 mA
Power	P_o	1.152 W
Type of protection [EEx ia]		
Input		
Maximum safe voltage	U_m	250 V (Attention! The rated voltage can be lower.)
Statement of conformity		TÜV 99 ATEX 1499 X , observe statement of conformity
Group, category, type of protection, temperature class		Ex II 3G Ex nA II T4 [device in zone 2]
Electrical isolation		
Input/Output		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity		
Directive 94/9/EC		EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010
International approvals		
FM approval		
Control drawing		266-031FM-12 (cFMus)
UL approval		
Control drawing		116-0316 (cULus)
IECEX approval		
		IECEX BAS 06.0058
General information		
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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Output characteristics

Output circuit diagram



Output characteristic

