

**Features**

- 1-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 100 mA at 10 V DC
- Up to SIL 3 acc. to IEC 61508

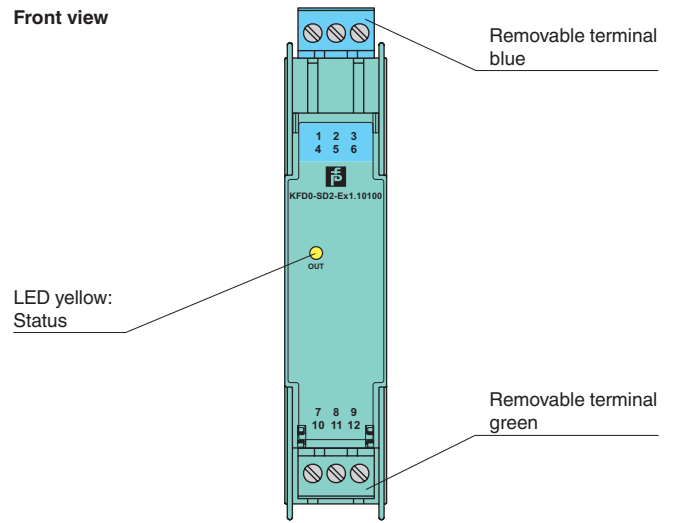
**Function**

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

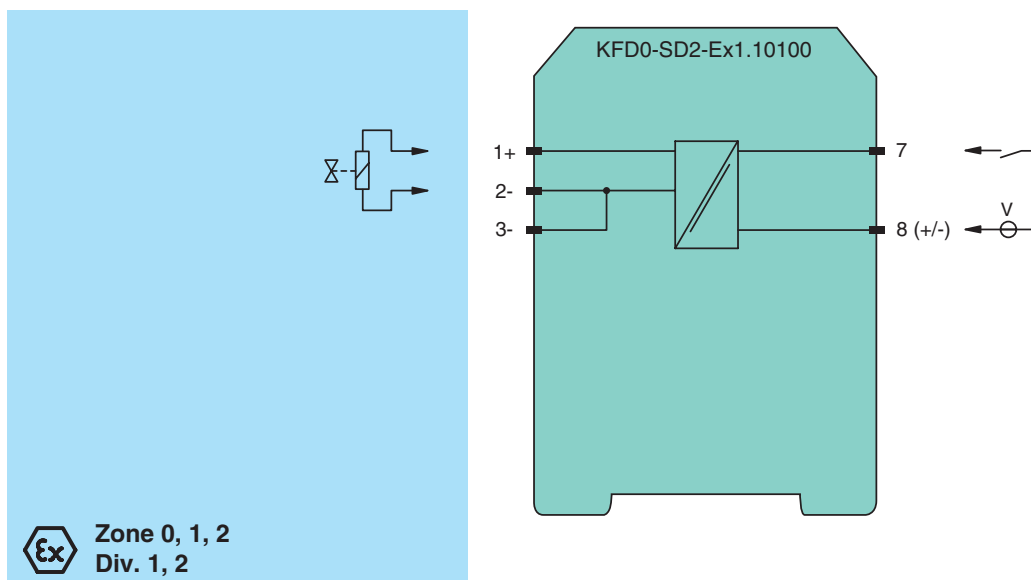
It is loop powered, so the available energy at the output is received from the input signal. The output signal has a resistive characteristic. As a result the output voltage and current are dependent on the load and the input voltage.

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

**Assembly**



**Connection**



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

<b>General specifications</b>		
Signal type		Digital Output
<b>Functional safety related parameters</b>		
Safety Integrity Level (SIL)		SIL 3
<b>Supply</b>		
Rated voltage	$U_r$	loop powered
Power dissipation		< 1.2 W ( $U_i \leq 30$ V)
<b>Input</b>		
Connection side		control side
Connection		terminals 7, 8
Rated voltage	$U_r$	20 ... 35 V DC
Current		150 mA at 20 V input voltage, load = 100 $\Omega$ 100 mA at 35 V input voltage, load = 100 $\Omega$
<b>Output</b>		
Connection side		field side
Connection		terminals 1+, 2-
Internal resistor	$R_i$	$\leq 68 \Omega$
Current	$I_e$	$\geq 100$ mA
Voltage	$U_e$	$\geq 9.5$ V
Open loop voltage	$U_s$	$\geq 16.2$ 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: typ. 1.7 ms/50 $\mu$ s; periodical: typ. 5 $\mu$ s/50 $\mu$ s
<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>		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC 60529:2001
Protection against electrical shock		UL 61010-1:2004
<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. 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
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate		BASEEFA 06 ATEX 0252
Marking		$\text{Ex}$ 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.)
Certificate		TÜV 99 ATEX 1499 X
Marking		$\text{Ex}$ II 3G Ex nA II T4 [device in zone 2]
Galvanic isolation		
Input/Output		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 60079-15:2010
<b>International approvals</b>		
FM approval		
Control drawing		116-0309
UL approval		
Control drawing		116-0316 (cULus)
IECEx approval		

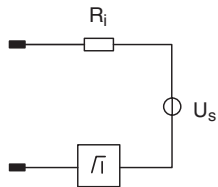
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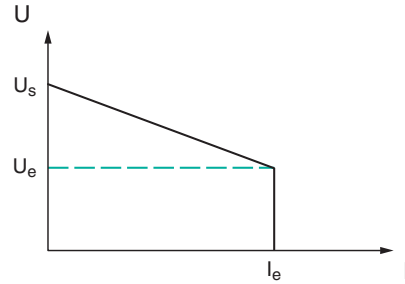
IECEX certificate	IECEX BAS 06.0058 IECEX CML 19.0093X
IECEX marking	[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec IIC T4 Gc
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Output characteristics**

Output circuit diagram



Output characteristic



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