

**Features**

- 2-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 45 mA at 12 V DC
- Up to SIL3 acc. to IEC 61508

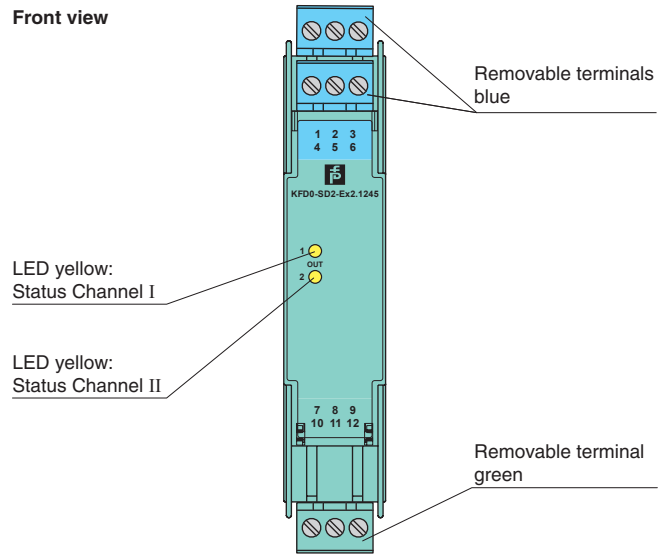
**Function**

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.

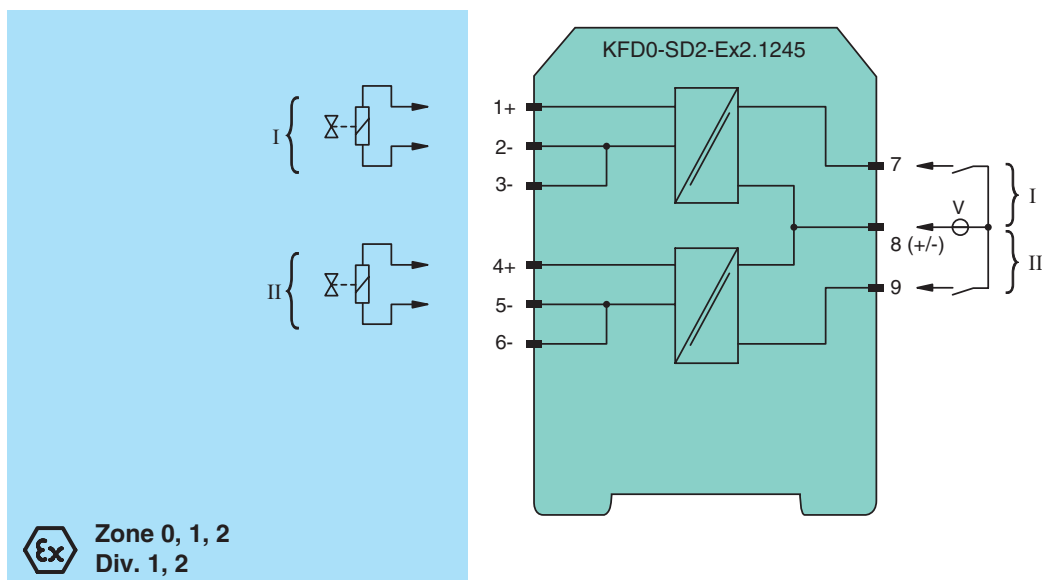
At full load, 12 V at 45 mA is available for the hazardous area application.

**Assembly**



**SIL3**

**Connection**



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

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<b>General specifications</b>		
Signal type		Digital Output
<b>Supply</b>		
Rated voltage	$U_n$	loop powered
Power loss		< 1 W ( $\leq 30$ V) per channel
<b>Input</b>		
Connection		terminals 7, 8; 8, 9
Rated voltage	$U_n$	20 ... 35 V DC
Current		72 mA at 20 V input voltage, load = 265 $\Omega$ 50 mA at 35 V input voltage, load = 265 $\Omega$
Inrush current		$\leq 200$ mA after 100 $\mu$ s
<b>Output</b>		
Connection		terminals 1+, 2-; 4+, 5-
Internal resistor	$R_i$	$\leq 238$ $\Omega$
Current	$I_e$	$\leq 45$ mA
Voltage	$U_e$	$\geq 12$ V
Open loop voltage	$U_s$	$\geq 22.7$ V
Output rated operating current		45 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>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
<b>Conformity</b>		
Electromagnetic compatibility		
Degree of protection		NE 21:2006
Protection against electrical shock		IEC 60529:2001 UL 61010-1:2004
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>		
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
<b>Data for application in connection with Ex-areas</b>		
EC-Type Examination Certificate		BASEEFA 06 ATEX 0252 , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Group, category, type of protection		$\text{Ex}$ 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	$U_o$	25.2 V
Current	$I_o$	110 mA
Power	$P_o$	693 mW
Type of protection [EEx ia]		
Input		
Maximum safe voltage	$U_m$	250 V (Attention! The rated voltage can be lower.)
Statement of conformity		
Group, category, type of protection, temperature class		$\text{Ex}$ 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
<b>International approvals</b>		
FM approval		
Control drawing		266-031FM-12 (cFMus)
UL approval		
Control drawing		116-0316 (cULus)
IECEx approval		IECEx BAS 06.0058
<b>General information</b>		
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

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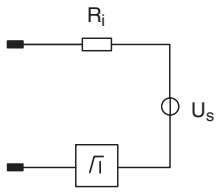
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Output characteristics

Output circuit diagram



Output characteristic

