

**Features**

- 2-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 45 mA at 10 V DC
- Up to SIL 3 acc. to IEC 61508

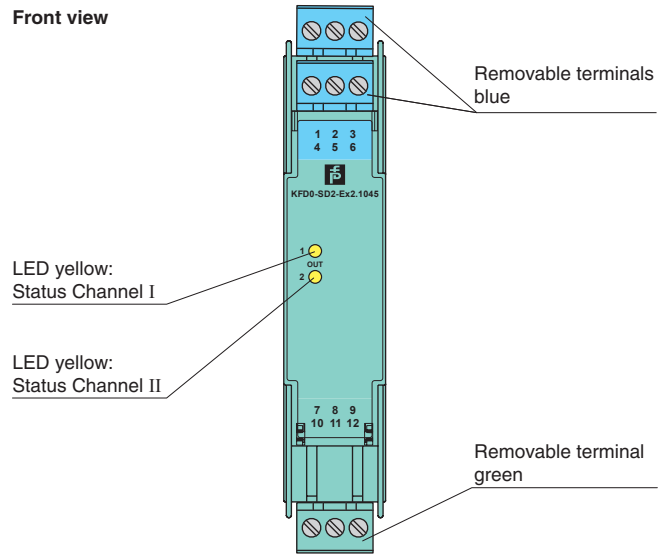
**Function**

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.

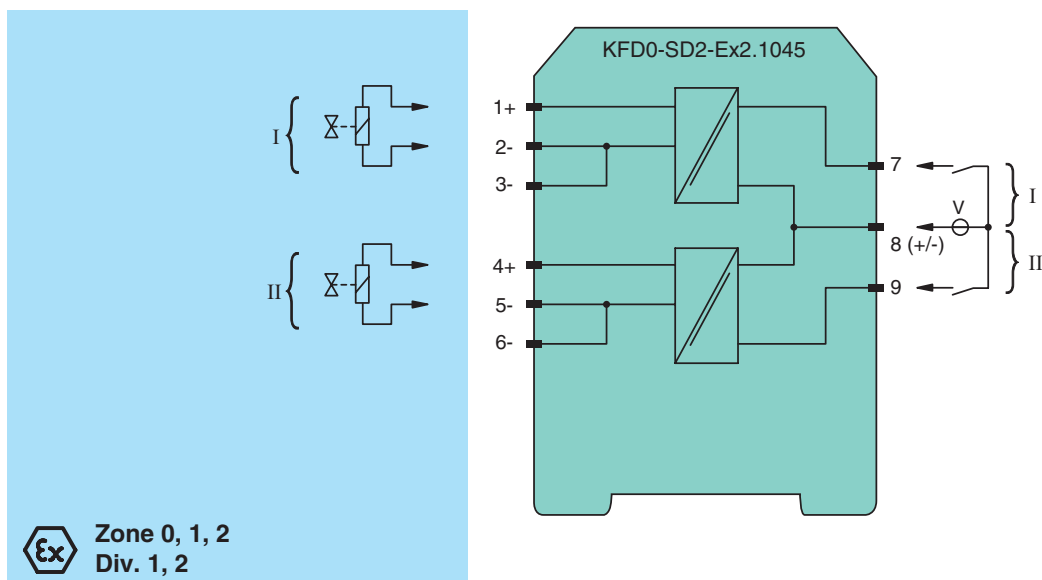
At full load, 10 V at 45 mA is available for the hazardous area application.

**Assembly**



**SIL 3**

**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		< 1.05 W ( $\leq 30$ V) per channel
<b>Input</b>		
Connection side		control side
Connection		terminals 7, 8; 8, 9
Rated voltage	$U_r$	20 ... 35 V DC
Current		72 mA at 20 V input voltage, load = 220 $\Omega$ 50 mA at 35 V input voltage, load = 220 $\Omega$
Inrush current		$\leq 200$ mA after 100 $\mu$ s
<b>Output</b>		
Connection side		field side
Connection		terminals 1+, 2-; 4+, 5-
Internal resistor	$R_i$	$\leq 282$ $\Omega$
Current	$I_e$	$\leq 45$ mA
Voltage	$U_e$	$\geq 10$ 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>Indicators/settings</b>		
Display elements		LEDs
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 $^{\circ}$ C (-4 ... 140 $^{\circ}$ 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 $^{\circ}$ C $\leq T_{amb}$ $\leq 60$ $^{\circ}$ C)
Voltage	$U_o$	25.2 V
Current	$I_o$	93 mA
Power	$P_o$	590 mW
<b>Input</b>		
Maximum safe voltage	$U_m$	250 V (Attention! The rated voltage can be lower.)
<b>Certificate</b>		
Marking		$\text{Ex}$ II 3G Ex nA II T4 [device in zone 2]
<b>Galvanic isolation</b>		
Input/Output		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
<b>Directive conformity</b>		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
<b>International approvals</b>		
<b>FM approval</b>		
Control drawing		116-0309
<b>UL approval</b>		
Control drawing		116-0316 (cULus)
IECEX approval		IECEX BAS 06.0058
<b>General information</b>		

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

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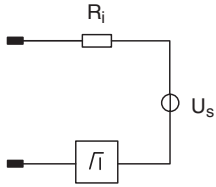
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Supplementary information

Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

Output characteristics

Output circuit diagram



Output characteristic

