

**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

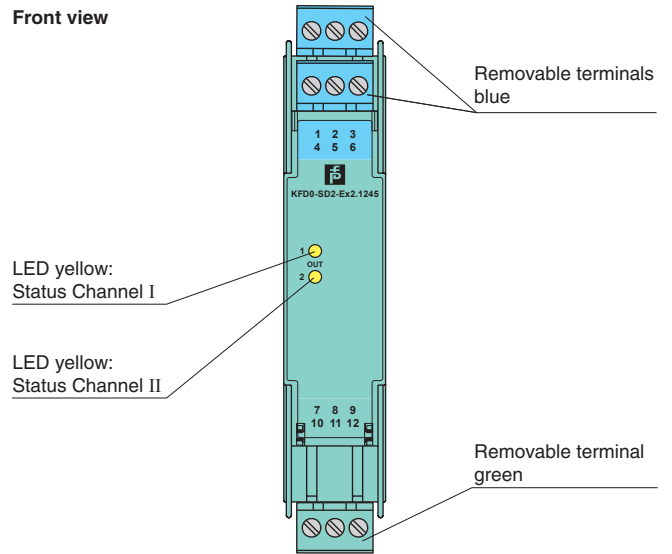
**Function**

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.

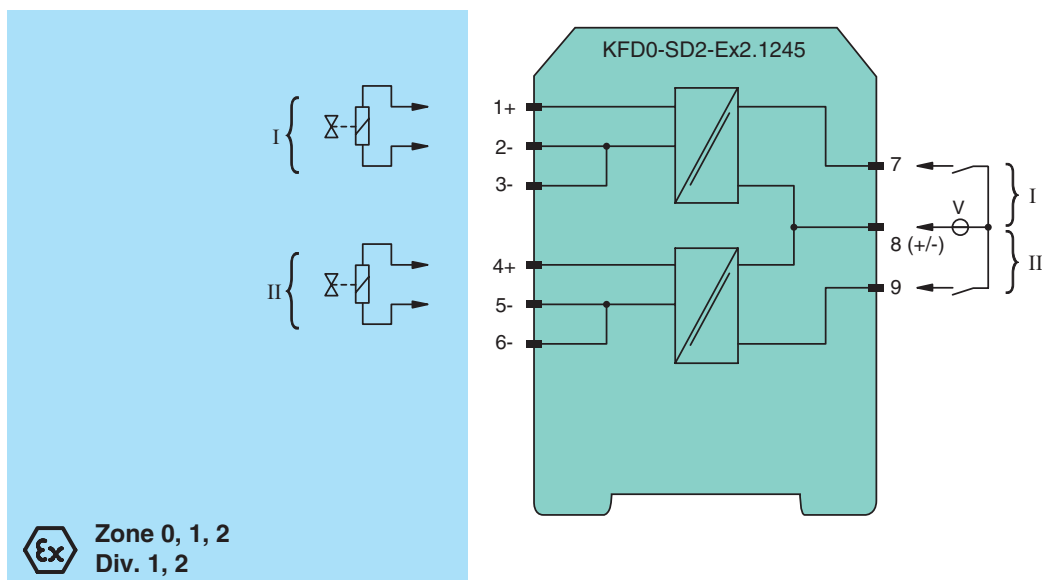
At full load, 12 V at 45 mA is available for the hazardous area application.

**Assembly**



**SIL3**

**Connection**



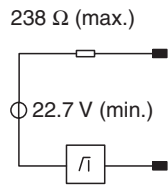
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<b>General specifications</b>	
Signal type	Digital output
<b>Supply</b>	
Rated voltage	loop powered
Power loss	< 1 W ( $\leq 30$ V) per channel
<b>Input</b>	
Connection	terminals 7, 8; 8, 9
Rated voltage $U_i$	20 ... 35 V DC
Current	72 mA at 20 V input voltage, load = 265 $\Omega$ 50 mA at 35 V input voltage, load = 265 $\Omega$
<b>Output</b>	
Internal resistor	$\leq 238 \Omega$
Limit	Current $I_E$ : $\geq 45$ mA voltage $U_E$ : $\geq 12$ V
Open loop voltage	$\geq 22.7$ V
Connection	terminals 1+, 2-; 4+, 5-
Output rated operating current	45 mA
Output signal	these values are valid for the rated operational voltage 20 ... 35 V DC
Energized/De-energized delay	single operation: 300 $\mu$ s / 50 $\mu$ s; periodical: 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	NE 21
Protection degree	IEC 60529
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>	
Protection degree	IP20
Mass	approx. 100 g
Dimensions	20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1
<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)GD [Ex ia] IIC; [Ex iaD] [circuit(s) in zone 0/1/2/20/21/22] $\text{Ex}$ I (M1) [Ex ia] I
Output	Ex ia IIC, Ex iaD
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	TÜV 99 ATEX 1499 X , observe statement of conformity
Group, category, type of protection, temperature classification	$\text{Ex}$ II 3G Ex nA II T4
Electrical isolation	
Input/Output	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Directive conformity	
Directive 94/9/EC	EN 60079-0, EN 50020, EN 60079-26, EN 61241-11, EN 60079-15
<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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Notes

Output circuit diagram



Output characteristic for input voltage 20 V ... 35 V

E: Curve angle point ( $U_E, I_E$ )

