Features

- 2-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 45 mA at 10 V DC
- Up to SIL3 acc. to IEC 61508

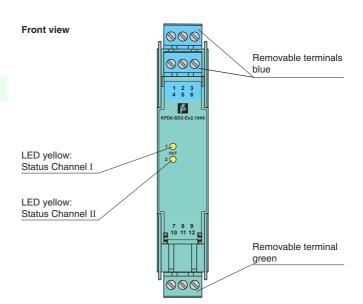
Function

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 45 mA is available for the hazardous area application.

Assembly

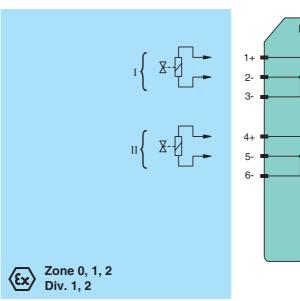


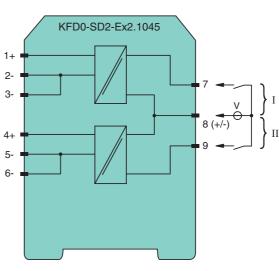




SIL3

Connection

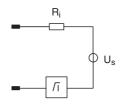




General specifications		
Signal type		Digital Output
Supply		
Rated voltage	U _n	loop powered
Power dissipation		< 1.05 W (≤ 30 V) per channel
Input		
Connection		terminals 7, 8; 8, 9
Rated voltage	Un	20 35 V DC
Current	"	72 mA at 20 V input voltage, load = 220 Ω 50 mA at 35 V input voltage, load = 220 Ω
Output		
Connection		terminals 1+, 2-; 4+, 5-
Internal resistor	R _i	≤ 282 Ω
Current	l _e	≤ 45 mA
Voltage	U _e	≥10 V
Open loop voltage	Us	≥ 22.7 V
Output rated operating curre		45 mA
Output signal		These values are valid for the rated operating voltage 20 35 V DC.
Energized/De-energized delay		single operation: $300 \mu s/50 \mu s$; periodical: $5 \mu s/50 \mu s$
Directive conformity		σπιχιό οροιαποτή σσο μολού μος ροιτουτούν, ο μολού μο
•	V	
Electromagnetic compatibility		EN 61226 1:2012 (industrial locations)
Directive 2004/108/EC		EN 61326-1:2013 (industrial locations)
Conformity		NE or one
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 con with Ex-areas	nection	
EC-Type Examination Certificate		BASEEFA 06 ATEX 0252, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		$\langle Ex \rangle$ 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	93 mA
Power	Po	590 mW
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		(x) 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+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
International approvals		
FM approval		
• • •		266-031FM-12 (cFMus)
Control drawing		200-0011 IVI-12 (CFIVIUS)
UL approval		440 0040 (-111)
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.



Output circuit diagram



Output characteristic

