Removable spring terminal

green

Features Assembly • 1-channel isolated barrier 24 V DC supply (loop powered) Front view Removable spring terminal • Current limit 45 mA at 12 V DC blue · Housing width 12.5 mm · Connection via spring terminals • Up to SIL3 acc. to IEC 61508 ħ **Function** LED yellow: This isolated barrier is used for intrinsic safety applications. It Status 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 Place for labeling resistive characteristic. As a result the output voltage and

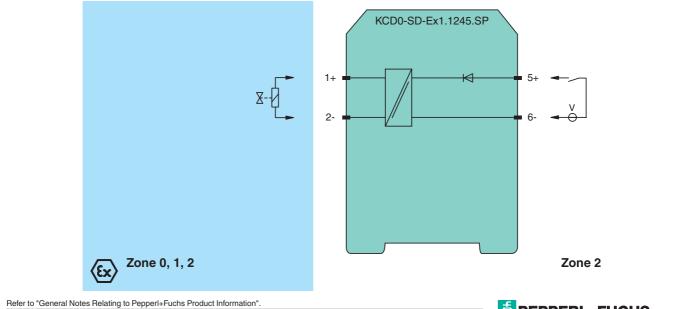
At full load, 12 V at 45 mA is available for the hazardous area application.

current are dependent on the load and the input voltage.



SIL 3

Connection



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General specifications Signal type	Divited Output
0 <i>1</i> 1	Digital Output
	Digital Output
Supply	
Connection	loop powered
Power dissipation	<1W
Input	
Connection	terminals 5, 6
Rated voltage U _n	19 30 V DC
Current	\leq 72 mA at U _i = 19 V, \leq 50 mA at U _i = 30 V with 265 Ω output load \leq 45 mA at U _i = 19 V, \leq 31 mA at U _i = 30 V with shorted output \leq 14 mA at U _i = 19 V, \leq 11 mA at U _i = 30 V no load at output
Inrush current	≤ 200 mA after 100 μs
Output	
Connection	terminals 1+, 2-
Internal resistor R _i	≤ 2 38 Ω
Current I _e	≤ 45 mA
Voltage U _e	≥ 12 V
Open loop voltage U _s	≥22.7 V
Output rated operating current	45 mA
Output signal	These values are valid for the rated operating voltage 19 30 V DC.
Energized/De-energized delay	single operation: typ. 1.7 ms/50 µs; periodical: typ. 5 µs/50 µs
Electrical isolation	
Input/Output	reinforced insulation acc. to EN 50178, rated insulation voltage 300 V _{eff}
Directive conformity	
·	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
	EN 01520-1.2013 (industrial locations)
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529
Protection against electrical shock	UL 61010-1
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	
Degree of protection	IP20
Mass	approx. 100 g
Dimensions	12.5 x 114 x 119 mm (0.5 x 4.5 x 4.7 inch) , housing type A2
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	
Group, category, type of protection	(☑) II (1)G [Ex ia Ga] IIC , ☑ II (1)D [Ex ia Da] IIIC , ☑ I (M1) [Ex ia Ma] I
Output	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
Voltage U _o	25.2 V
Current I _o	110 mA
Power Po	693 mW
Input	
Maximum safe voltage U _m	250 V (Attention! The rated voltage can be lower.)
Statement of conformity	PF 06 CERT 0971 X
Group, category, type of protection, temperature class	€ II 3G Ex nA IIC T4 Gc
Electrical 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
International approvals	
FM approval	
Control drawing	116-0419 (cFMus)
UL approval	
Control drawing	116-0420 (cULus)
IECEx approval	IECEx BAS 06.0032
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
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.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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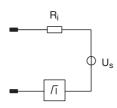
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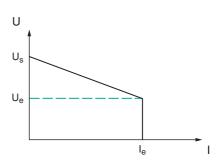
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Output characteristics

Output circuit diagram



Output characteristic



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