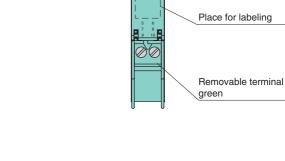
Features Assembly • 1-channel isolated barrier 24 V DC supply (loop powered) Front view Removable terminal • Current limit 45 mA at 12 V DC DØ blue · Housing width 12.5 mm • Up to SIL3 acc. to IEC 61508 **Function** र्व This isolated barrier is used for intrinsic safety applications. It LED yellow: supplies power to solenoids, LEDs, and audible alarms Status 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.

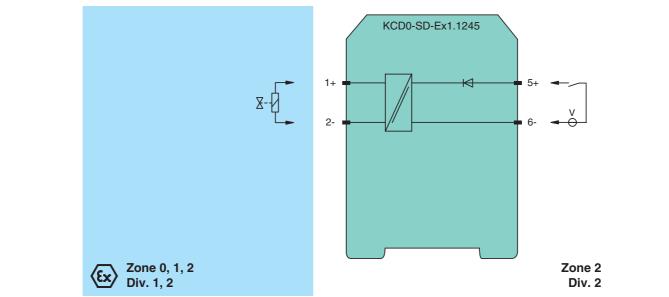
At full load, 12 V at 45 mA is available for the hazardous area application.



<€ <8

SIL3

Connection



 Subject to reasonable modifications due to technical advances.
 Copyright Pepperl+Fuchs, Printed in Germany

 Pepperl+Fuchs Group • Tel.: Germany +49-621-776-0 • USA +1-330-4253555 • Singapore +65-67-799091 • Internet www.pepperl-fuchs.com

General specifications	
Signal type	Digital output
Supply	
Connection	loop powered
Power loss	<1W
Input	
Connection	terminals 5, 6
Rated voltage U _i	19 30 V DC
Current	72 mA at 19 V input voltage and 265 Ω output load
	50 mA at 30 V input voltage and 265 Ω output load
Output	
Internal resistor	\leq 238 Ω
Limit	current I _E : \ge 45 mA voltage U _E : \ge 12 V
Open loop voltage	≥ 22.7 V
Connection	terminals 1+, 2-
Output rated operating current	45 mA
Output signal	These values are valid for the rated operational voltage 19 30 V DC.
	single operation: $300 \ \mu\text{s} / 50 \ \mu\text{s}$; periodical: $5 \ \mu\text{s} / 50 \ \mu\text{s}$
Energized/De-energized delay	single operation. Sou μ s / So μ s, periodical. S μ S / SO μ S
Indicators/settings	analog for labeling at the front
Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Conformity	
Electromagnetic compatibility	NE 21
Protection degree	IEC 60529
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	
Protection degree	IP20
Mass	approx. 100 g
Dimensions	12.5 x 114 x 119 mm (0.5 x 4.5 x 4.7 in) , housing type A2
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	BASEEFA 06 ATEX 0170, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	 (☆ II (1)GD [Ex ia] IIC; [Ex iaD] [circuit(s) in zone 0/1/2/20/21/22] (☆ I (M1) [Ex ia] I
Output	Ex ia IIC, Ex iaD
	25.2 V
Voltage U _o	
Current I _o	110 mA 693 mW
Power Po	Uao IIIw
Type of protection [EEx ia] Input	
Maximum safe voltage U _m	250 V (Attention! The rated voltage can be lower.)
Statement of conformity	Pepperl+Fuchs
Group, category, type of protection, temperature classification	🐼 II 3G Ex nA II T4 X
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
International approvals	
FM approval	
Control drawing	16-533FM-12 (cFMus)
UL approval	
Control drawing	16-533UL-12 (cULus)
•	
IECEx approval	IECEX BAS 06.0032
Approved for	[Ex ia] IIC , [Ex ia] 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.

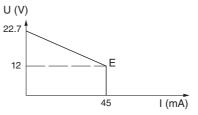
Subject to reasonable modifications due to technical advances.

Notes





Output characteristic for input voltage 19 V ... 30 V E: Curve angle point (U_{E}, I_{E})



3