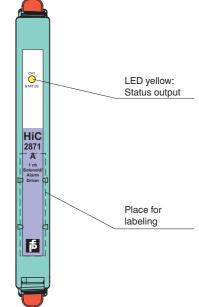
Features Assembly • 1-channel isolated barrier 24 V DC supply (loop powered) Front view Output 45 mA at 12 V DC · Test pulse immunity • Up to SIL 3 acc. to IEC 61508 **Function** CH1 LED yellow: Status output This isolated barrier is used for intrinsic safety applications. The device supplies power to solenoids, LEDs and audible HiC alarms located in a hazardous area. 2871 The device is loop powered, so the available energy at the Ā 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.

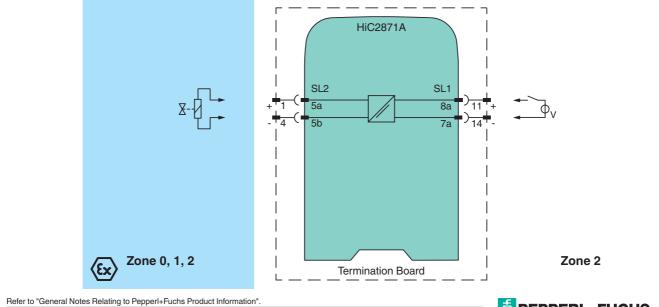
This device mounts on a HiC Termination Board.



CE



Connection



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General specifications		
Signal type		Digital Output
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 3
Supply		
Connection		loop powered
Rated voltage	Ur	19 30 V DC loop powered
Power dissipation		<1.3W
Input		
Connection side		control side
Connection		SL1: 7a(-), 9a(-); 8a(+), 10a(+)
Test pulse length		$\leq 2 \text{ ms from DO card}$
Signal level		1-signal: 19 30 V DC
U U		0-signal: 0 5 V DC
Rated voltage	Ur	19 30 V DC
Rated current	۱ _r	0-signal: typ. 1.6 mA at 1.5 V DC; typ. 8 mA at 3 V DC (maximum leakage current DO card) 1-signal: ≥ 36 mA (minimum load current DO card)
Inrush current		\leq 200 mA after 100 μ s
Output		
Connection side		field side
Connection		SL2: 5a(+), 5b(-)
Internal resistor	R _i	approx. 240 Ω
Current	l _e	≤ 45 mA
Voltage	U _e	≥ 12 V
Current limit	I _{max}	45 mA
Open loop voltage	Us	typ. 24.6 V
Switching frequency	f	max. 10 Hz
Energized/De-energized del	ay	28 ms / 10 ms
Galvanic isolation		
Output/other circuits		basic insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}
Indicators/settings		
Display elements		LED
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibilit	ty	NE 21:2012, EN 61326-3-2:2008
D		For further information see system description.
Degree of protection		IEC 60529:2013
Protection against electrical shock		EN 61010-1:2010
Ambient conditions		
Ambient temperature		-20 70 °C (-4 158 °F)
Mechanical specifications		
Degree of protection		IP20
Mass		approx. 150 g 12.5 x 128 x 106 mm (0.5 x 5.1 x 4.2 inch)
Dimensions		12.5 x 128 x 106 mm (0.5 x 5.1 x 4.2 inch)
Mounting Coding		on Termination Board pin 1 and 4 trimmed
-		For further information see system description.
Data for application in cor with hazardous areas	nection	
EU-Type Examination Certificate		EXA 17 ATEX 0040 X
Marking		 (☑) II 3(1)G Ex ec [ia Ga] IIC T4 Gc (☑) II (1)D [Ex ia Da] IIIC (☑) I (M1) [Ex ia Ma] I
Output		Exia
Voltage	Uo	26 V
Current	I _o	110 mA
Power	Po	715 mW
Input	.0	
Maximum safe voltage	U _m	60 V (Attention! The rated voltage can be lower.)
Galvanic isolation	- 111	
Input/Output		safe electrical isolation acc. to IEC/EN 60079-11, rated insulation voltage 300 V _{rms}
Directive conformity		····· , ······························
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012

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

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International approvals	
IECEx approval	IECEx EXA 17.0009X
Approved for	Ex ec [ia Ga] IIC T4 Gc , [Ex ia Da] IIIC , [Ex ia Ma] I
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Configuration

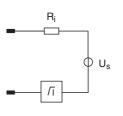
No user configuration available for this device.



The pins for this device are trimmed to polarize it according to its safety parameter. Do not change! For further information see system description.

Output characteristics

Output circuit diagram



Output characteristic

