## **Features**

- 2-channel
- · DC version, positive polarity
- Working voltage 6 V at 10 μA
- Series resistance max. 15.5  $\Omega$
- Fuse rating 200 mA
- · DIN rail mounting

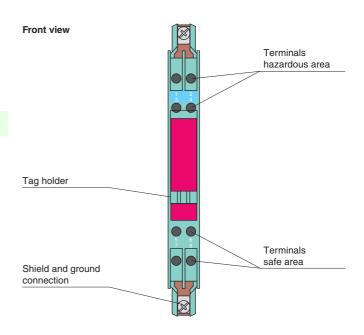
## **Function**

The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has a positive polarity, i. e. the anodes of the zener diodes are grounded.

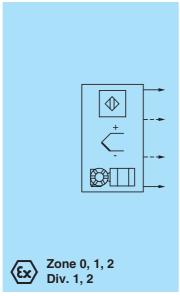
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

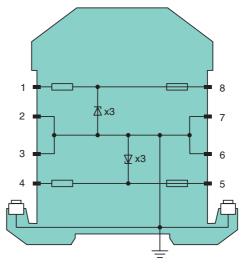
## **Assembly**





## Connection





Zone 2 Div. 2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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General specifications		
Туре		DC version, positive polarity
Electrical specifications		
Nominal resistance		10 Ω
Series resistance		≤ 15.5 Ω
Fuse rating		200 mA
Hazardous area connection		
Connection		terminals 1, 2; 3, 4
Safe area connection		10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Connection		terminals 5, 6; 7, 8
Working voltage		
Supply loop		≤ 6.4 V
Measurement loop		≤ 6 V at 10 μA
Conformity		20 ν αι το μπ
•		IEC 60529
Degree of protection		IEC 00329
Ambient conditions		00 00 00 (4 440 05)
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		max. 75 %, without condensation
Mechanical specifications		Lines.
Degree of protection		IP20
Connection		screw terminals
Core cross-section		max. 2 x 2.5 mm <sup>2</sup>
Mass		approx. 150 g
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 inch)
Construction type		modular terminal housing , see system description
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		BAS 01 ATEX 7005
Marking		(x) II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage	$U_o$	7.14 V
Current	I <sub>o</sub>	729 mA
Power	P <sub>o</sub>	1.3 W
Supply	Ü	
Maximum safe voltage	$U_m$	250 V
Series resistance		$\min$ 9.8 $Ω$
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
Marking		(Ex) II 3G Ex nA IIC T4 Gc [device in zone 2]
Directive conformity		W II OU EXTINUO 14 do [dovide III Zone Z]
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
International approvals		LIT 000/0 0.2012TAT1.2010, LIT 000/0-11.2012, LIT 000/0-10.2010
FM approval		116 0110
Control drawing		116-0118
UL approval		440.0400
Control drawing		116-0139
CSA approval		440.0440
Control drawing		116-0119
IECEx approval		IECEX BAS 09.0142 IECEX BAS 17.0091X
Approved for		[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For

