## **Features**

- 2-channel
- · AC version
- Working voltage 0.9 V at 1 μA
- Series resistance max. 18.18  $\Omega$
- Fuse rating 250 mA
- · DIN rail mounting

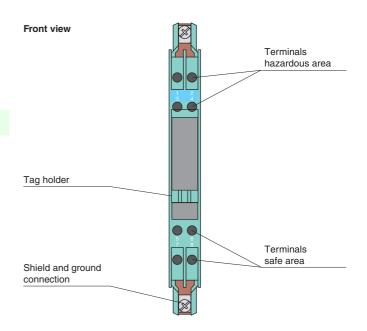
## **Function**

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 alternating polarities, i. e. interconnected zener diodes are employed and one side is grounded. The Zener Barrier can be used for both alternating voltage signals and direct voltage signals.

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.

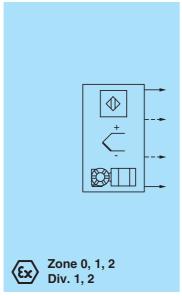
## **Assembly**

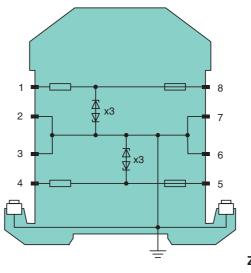






## Connection





Zone 2 Div. 2

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

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General specifications		
Туре		AC version
Electrical specifications		
Nominal resistance		10 Ω
Series resistance		≤ 18.18 Ω
Fuse rating		250 mA
Hazardous area connectio	n	
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 7, 8
Working voltage		
Supply loop		≤ 4.3 V
Measurement loop		≤ 0.9 V at 1 μA
Conformity		
Degree of protection		IEC 60529
Ambient conditions		120 00020
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		max. 75 %, without condensation
Mechanical specifications		max. 70 70; minor controlled
Degree of protection		IP20
Connection		screw terminals
Core cross-section		max. 2 x 2.5 mm <sup>2</sup>
Mass		approx. 150 q
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 inch)
		modular terminal housing, see system description
Construction type		on 35 mm DIN mounting rail acc. to EN 60715:2001
Mounting  Data for application in connection		on 33 min Diri mounting fair acc. to EN 607 13.2001
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	$U_o$	4.9 V
Current	l <sub>o</sub>	500 mA
Power	$P_{o}$	620 mW
Supply		
Maximum safe voltage	$U_m$	250 V
Series resistance		min. $9.8\Omega$
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
Marking		(x) II 3G Ex nA IIC T4 Gc [device in zone 2]
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		116-0118
UL approval		
Control drawing		116-0139 (cULus)
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 information see www.pepperl-fuchs.com.