Features

- 2-channel
- · AC version
- Working voltage 6.5 V at 10 μA
- Series resistance max. 106 Ω
- Fuse rating 100 mA
- · DIN rail mounting

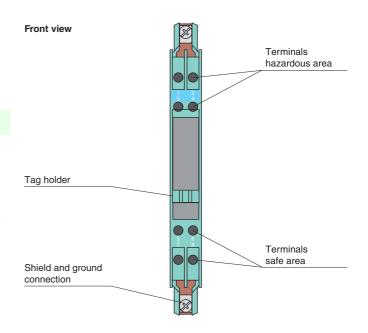
Function

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.

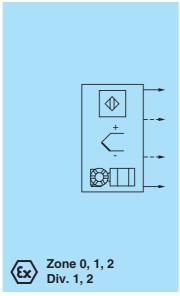
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

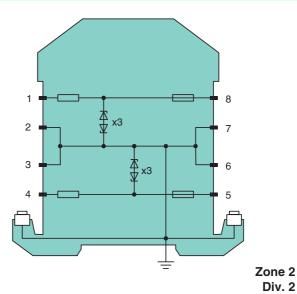
Assembly





Connection





FPEPPERL+FUCHS

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General specifications				
Туре		AC version		
Electrical specifications				
Nominal resistance		100 Ω		
Series resistance		max. 106Ω		
Fuse rating		100 mA		
Hazardous area connection	n			
Connection		terminals 1, 2; 3, 4		
Safe area connection				
Connection		terminals 5, 6; 7, 8		
Working voltage		max. 7.7 V , 6.5 V at 10 μA		
Conformity		παλ. τη τη σ.ο ται το μπ		
Protection degree		IEC 60529		
Ambient conditions		120 00020		
		-20 60 °C (-4 140 °F)		
Ambient temperature		-25 70 °C (-13 140 °F)		
Storage temperature				
Relative humidity		max. 75 %, without moisture condensation		
Mechanical specifications		IP20		
Protection degree				
Connection		self-opening connection terminals, max. core cross-section 2 x 2.5 mm ²		
Mass		approx. 150 g		
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)		
Construction type		modular terminal housing , see system description		
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001		
Data for application in cor with Ex-areas	nection			
EC-Type Examination Certificate		BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com		
Group, category, type of protection		⟨ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2]		
Voltage	U_o	8.7 V		
Current	Io	89 mA		
Power	Po	190 mW		
Supply				
Maximum safe voltage	U _m	250 V		
Series resistance		min. 98 Ω		
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity		
Group, category, type of protection, temperature class		(Ex) II 3G Ex nA IIC T4 Gc [device in zone 2]		
Directive conformity				
Directive 94/9/EC		EN 60079-0:2009, EN 60079-11:2007, EN 61241-11:2006 , EN 60079-15:2010		
International approvals				
FM approval				
		116-0118		
UL approval				
Control drawing		116-0139		
CSA approval		110 0100		
Control drawing		116-0119		
IECEx approval		IECEx BAS 09.0142		
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.		

