Features

- 2-channel
- AC version
- Working voltage 10 V at 10 μ A
- Series resistance max. 169 Ω
- · Fuse rating 63 mA
- DIN rail mounting
- · Replaceable back-up fuse

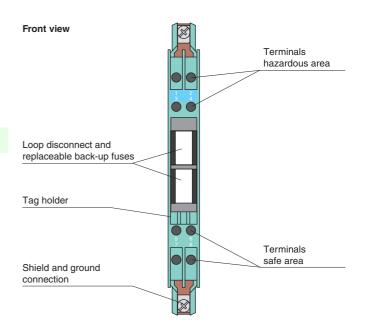
Function

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.

Additionally this Zener Barrier is equipped with a replaceable fuse.

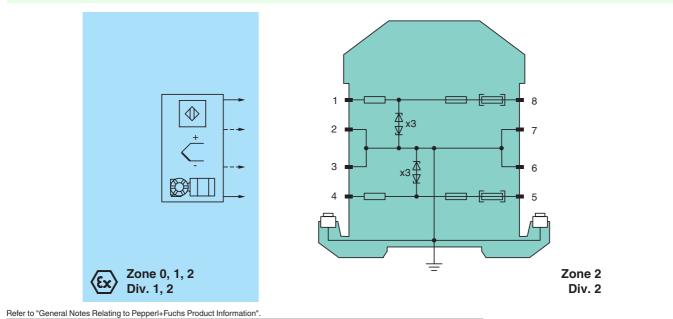
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.



C €

Assembly

Connection



USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

General specifications		
Туре		AC version
Electrical specifications		
Nominal resistance		150 Ω
Series resistance		max. 169 Ω
Fuse rating		63 mA
Hazardous area connection		
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 7, 8
Working voltage		
Supply loop		≤11.1 V
Measurement loop		\leq 10 V at 10 μ A
Conformity		
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-20 00 °C (-4 140 °F) -25 70 °C (-13 158 °F)
Relative humidity		-25 70 °C (-13 158 °F) max. 75 % , without condensation
Mechanical specifications		Hax. 75 /o, without control sation
Degree of protection		IP20
Connection		screw terminals
Core cross-section		max. 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 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 con with hazardous areas	nection	
		BAS 00 ATEX 7096
EU-type examination certificate		
Marking		$\langle \widehat{\mathbf{x}} \rangle$ II (1)GD, [Ex ia Ga] IIC, [Ex ia Da] IIIC, (-20 °C $\leq T_{amb} \leq 60$ °C) [circuit(s) in zone 0/1/2]
Voltage	U _o	12 V
Current	l _o	82 mA
Power	Po	240 mW
Supply		
Maximum safe voltage	U _m	250 V
Series resistance		min. 147 Ω
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
Marking		(x) II 3G Ex nA II T4 [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		116-0355 (cULus)
IECEx approval		IECEx BAS 18.0033
Approved for		[Ex ia Ga] IIC, [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.

Perfer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
USA: +1 330 486 0002
General General

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com

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