Features

- 2-channel
- AC version
- Working voltage 6.5 V at 10 μ A
- Series resistance max. 115 Ω
- Fuse rating 100 mA
- DIN rail mounting
- · Replaceable back-up fuse

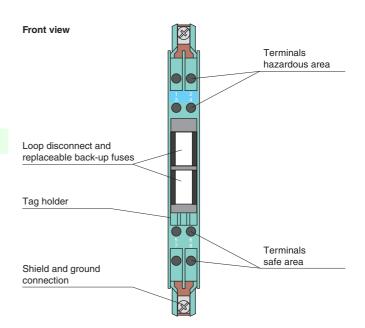
Function

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.

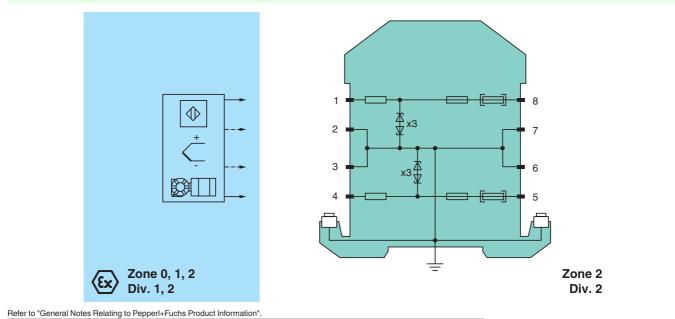
Additionally this Zener Barrier is equipped with a replaceable fuse.

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.



Assembly

Connection



Pepperl+Fuchs Group US www.pepperl-fuchs.com pa-info

USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

-	61		
~			

General specifications				
Туре		AC version		
Electrical specifications				
Nominal resistance		100 Ω		
Series resistance		max. 115 Ω		
Fuse rating		100 mA		
Hazardous area connectio	n			
Connection		terminals 1, 2; 3, 4		
Safe area connection				
Connection		terminals 5, 6; 7, 8		
Working voltage				
Supply loop		≤7.7 V		
Measurement loop		\leq 6.5 V at 10 μ A		
Conformity				
Degree of protection		IEC 60529		
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)		
Storage temperature		-25 70 °C (-13 158 °F)		
Relative humidity		max. 75 % , without condensation		
Mechanical specifications				
Degree of protection		IP20		
Connection		screw terminals		
Core cross-section		max. $2 \times 2.5 \text{ mm}^2$		
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	inection			
EU-type examination certificate		BAS 00 ATEX 7096		
Marking		$\langle \mathbf{x} \rangle$ 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	Uo	8.7 V		
Current	I _o	89 mA		
Power	Po	192 mW		
Supply	0			
Maximum safe voltage	U _m	250 V		
Series resistance	- 111	min. 98 Ω		
Permissible connection values [EEx ia]				
Certificate	[]	TÜV 99 ATEX 1484 X		
Marking		🐼 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

EPEPPERL+FUCHS 2