

**Features**

- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10  $\mu$ A
- Series resistance max. 273  $\Omega$
- Fuse rating 50 mA
- DIN rail mounting
- High power version
- Replaceable back-up fuse

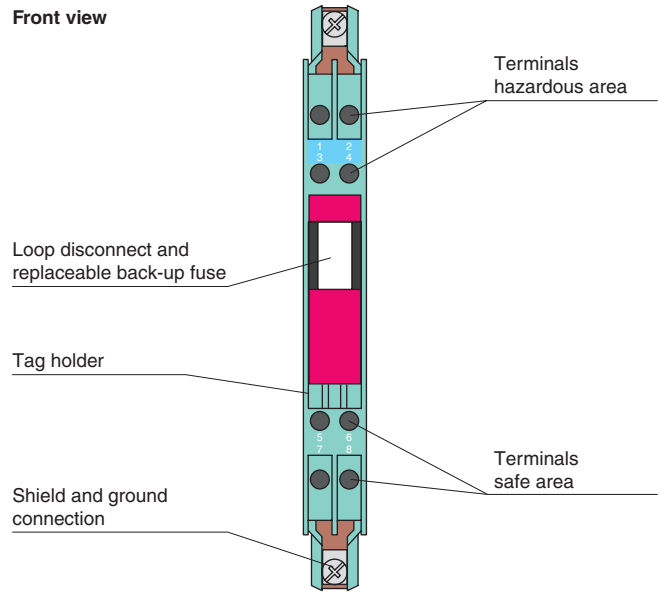
**Function**

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

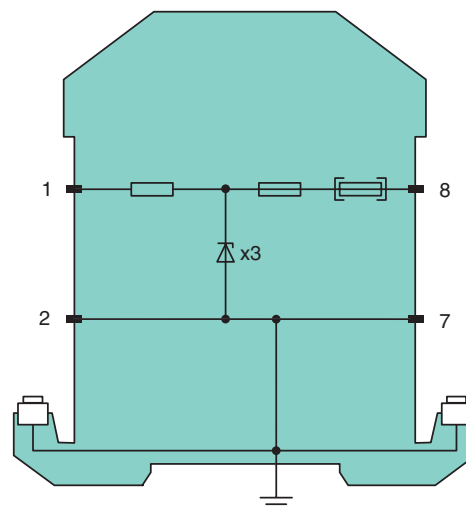
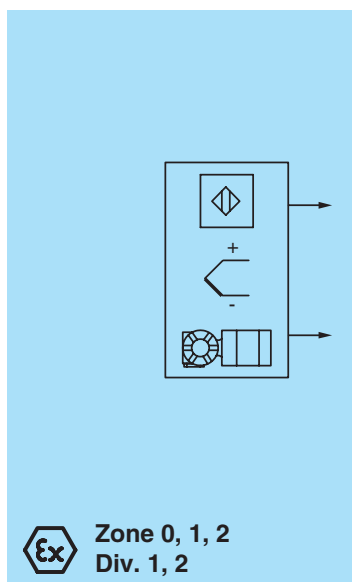
The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has a positive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

Additionally this Zener Barrier is equipped with a replaceable fuse. This high power version has a smaller serial resistance and therefore provides higher voltage to the field device.

**Assembly**



**Connection**



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

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<b>General specifications</b>		
Type	DC version, positive polarity	
<b>Electrical specifications</b>		
Nominal resistance	240 Ω	
Series resistance	max. 273 Ω	
Fuse rating	50 mA	
<b>Hazardous area connection</b>		
Connection	terminals 1, 2	
<b>Safe area connection</b>		
Connection	terminals 7, 8	
<b>Working voltage</b>		
Supply loop	≤ 26.9 V	
Measurement loop	≤ 26.5 V at 10 μA	
<b>Conformity</b>		
Degree of protection	IEC 60529	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)	
Storage temperature	-25 ... 70 °C (-13 ... 158 °F)	
Relative humidity	max. 75 % , without condensation	
<b>Mechanical specifications</b>		
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	
<b>Data for application in connection with hazardous areas</b>		
EU-Type Examination Certificate	BAS 00 ATEX 7096	
Marking	⊕ II (1)GD, [Ex ia Ga] IIC, [Ex ia Da] IIIC, (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]	
Voltage	U <sub>o</sub>	28 V
Current	I <sub>o</sub>	120 mA
Power	P <sub>o</sub>	830 mW
<b>Supply</b>		
Maximum safe voltage	U <sub>m</sub>	250 V
Series resistance	min. 235 Ω	
<b>Permissible connection values [EEx ia]</b>		
Certificate	TÜV 99 ATEX 1484 X	
Marking	⊕ II 3G Ex nA II T4 [device in zone 2]	
<b>Directive conformity</b>		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010	
<b>International approvals</b>		
<b>FM approval</b>		
Control drawing	116-0118	
<b>UL approval</b>		
Control drawing	116-0355 (cULus)	
<b>CSA approval</b>		
Control drawing	116-0119	
<b>IECEX approval</b>		
Approved for	IECEX BAS 18.0033 [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I	
<b>General information</b>		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .	

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