

**Features**

- 1-channel
- DC version, negative polarity
- Working voltage 26.5 V at 10  $\mu$ A
- Series resistance max. 341  $\Omega$
- Fuse rating 50 mA
- DIN rail mounting
- Replaceable back-up fuse

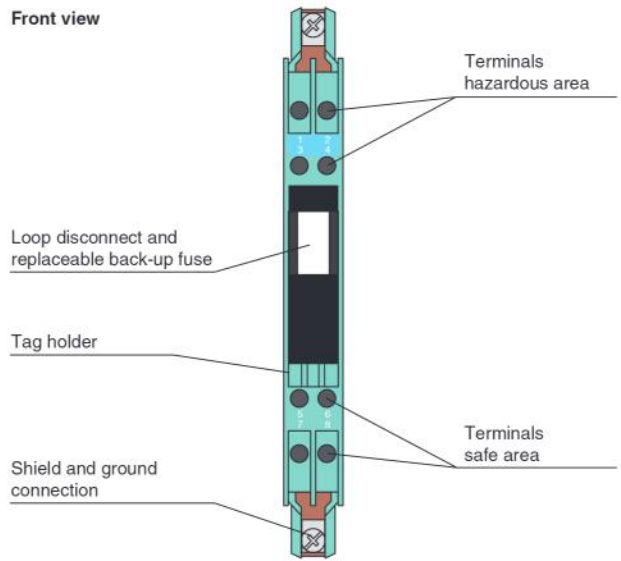
**Function**

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 a negative polarity, i. e. the cathodes of the zener diodes are grounded.

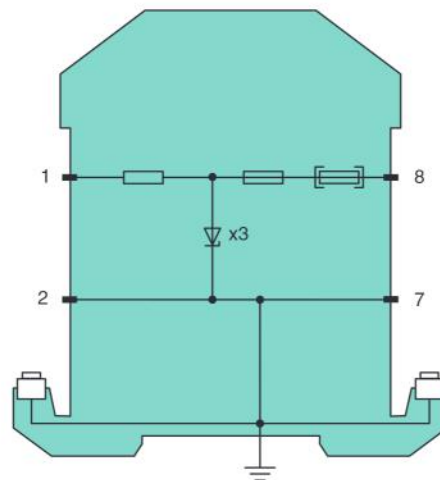
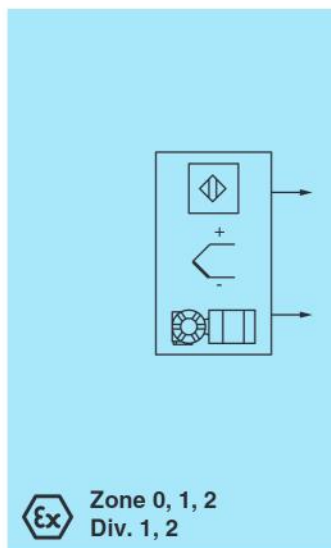
Additionally this Zener Barrier is equipped with a replaceable fuse.

**Assembly**



**Connection**

Release date: 2018-04-09 08:47 Date of issue: 2018-04-09 07:2203\_eng.xml



Zone 2  
Div. 2

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

<b>General specifications</b>		
Type		DC version, negative polarity
<b>Electrical specifications</b>		
Nominal resistance		300 Ω
Series resistance		max. 341 Ω
Fuse rating		50 mA
<b>Hazardous area connection</b>		
Connection		terminals 1, 2
<b>Safe area connection</b>		
Connection		terminals 7, 8
Rated voltage	$U_N$	28 V
Supply voltage		max. 28 V
Working voltage		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		self-opening connection terminals, max. core cross section 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 , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Marking		⊕ II (1)GD [Ex ia] IIC (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C)
Voltage	$U_o$	28 V
Current	$I_o$	93 mA
Power	$P_o$	650 mW
<b>Supply</b>		
Maximum safe voltage	$U_m$	250 V
Series resistance		min. 301 Ω
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X , observe statement of conformity
Marking		⊕ II 3G EEx nA II T4 X
<b>Directive conformity</b>		
Directive 94/9/EC		EN 50014, EN 50020, EN 50021
<b>International approvals</b>		
FM approval		
Control drawing		116-0118
CSA approval		
Control drawing		116-0119
<b>General information</b>		
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

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