## Assembly

• 2-channel

Features

- · DC version, negative polarity
- Working voltage 24 V/18 V at 10  $\mu$ A
- Series resistance max. 340  $\Omega/437 \Omega$
- Fuse rating 50 mA
- · DIN rail mounting
- Asymmetrical version

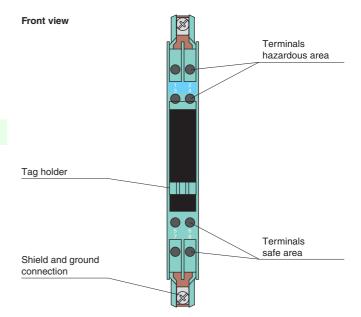
## **Function**

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.

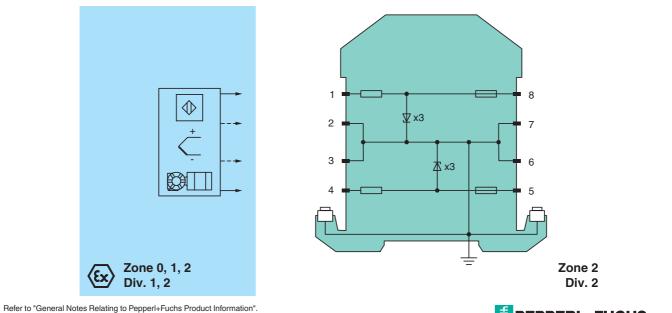
Asymmetrical Zener Barriers are for optimization of applications which have different voltage levels regarding to ground potential.

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.





## Connection



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General specifications	DC version parative polarity
Type	DC version, negative polarity
Electrical specifications	
Nominal resistance	terminals 1, 8: 320 $\Omega$ ; terminals 4, 5: 415 $\Omega$
Series resistance	terminals 1, 8: max. 340 $\Omega$ ; terminals 4, 5: max. 437 $\Omega$
Fuse rating	50 mA
Hazardous area connection	
Connection	terminals 1, 2; 3, 4
Safe area connection	
Connection	terminals 5, 6; 7, 8
Working voltage	terminals 7, 8: max. 24.6 V; 24 V at 10 μA terminals 5, 6: max. 19 V; 18 V at 10 μA
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 moisture condensation
Mechanical specifications	
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 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 connec with Ex-areas	-
EC-Type Examination Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, category, type of prote	
	terminals 1, 2: 26.6 V; terminals 3, 4: 20.5 V
Current	terminals 1, 2: 85 mA; terminals 3, 4: 50 mA
Power	
Supply	
	250 V
Series resistance	terminals 1, 2: min. 314 $\Omega$ ; terminals 3, 4: min. 407 $\Omega$
Permissible connection values [E	
Statement of conformity	TÜV 99 ATEX 1484 X, observe statement of conformity
Group, category, type of prote	
temperature class	
Directive 94/9/EC	EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010
International approvals	LIN 0007 0-0.2012, LIN 0007 0-11.2012, LIN 0007 0-13.2010
FM approval Control drawing	116-0118
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UL approval	116.0120
Control drawing CSA approval	116-0139
•••	116.0110
Control drawing	116-0119 IECEX BAS 00 0142
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.

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