

**Features**

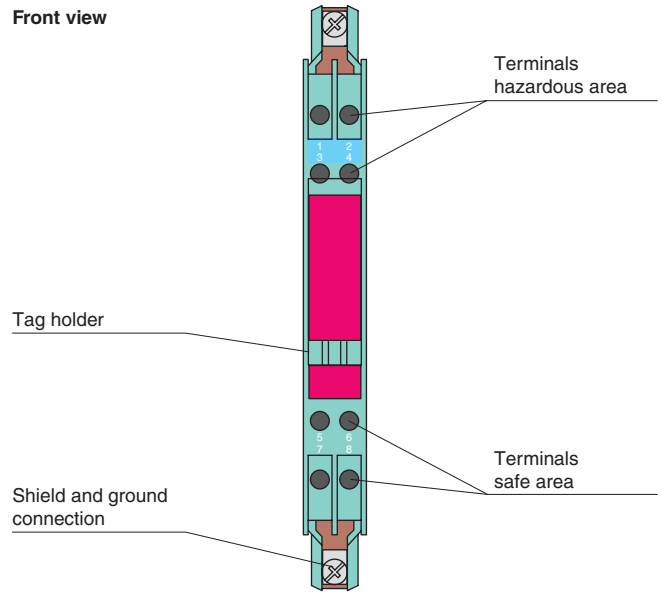
- 1-channel
- DC version, positive polarity
- Working voltage 13.7 V at 10  $\mu$ A
- Series resistance max. 29  $\Omega$
- Fuse rating 160 mA
- DIN rail mounting

**Function**

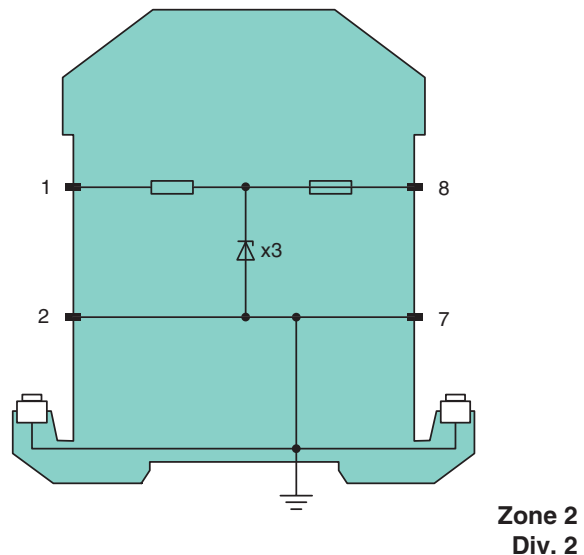
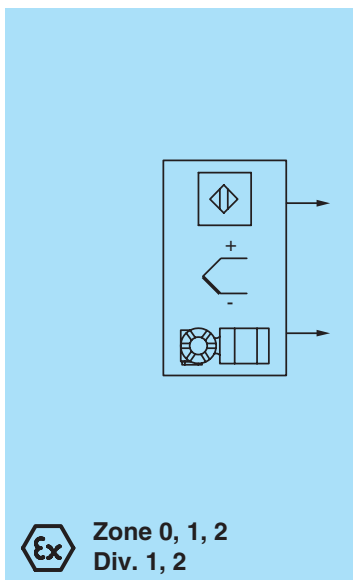
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

**Assembly**



**Connection**



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<b>General specifications</b>		
Type	DC version, positive polarity	
<b>Electrical specifications</b>		
Nominal resistance	22 Ω	
Series resistance	max. 29 Ω	
Fuse rating	160 mA	
<b>Hazardous area connection</b>		
Connection	terminals 1, 2	
<b>Safe area connection</b>		
Connection	terminals 7, 8	
Rated voltage	15.75 V	
Supply voltage	max. 14.6 V	
Working voltage	13.7 V at 10 μA	
<b>Conformity</b>		
Protection degree	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 moisture condensation	
<b>Mechanical specifications</b>		
Protection degree	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 DIN EN 60715	
<b>Data for application in connection with Ex-areas</b>		
EC-Type Examination Certificate	BAS 01 ATEX 7005 , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>	
Group, category, type of protection	⊕ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]	
Voltage	U <sub>o</sub>	15.75 V
Current	I <sub>o</sub>	723 mA
Power	P <sub>o</sub>	2.84 W
Supply		
Maximum safe voltage	U <sub>m</sub>	250 V
Series resistance	min. 21.8 Ω	
Statement of conformity	TÜV 99 ATEX 1484 X , observe statement of conformity	
Group, category, type of protection, temperature class	⊕ II 3G Ex nA IIC T4 Gc [device in zone 2]	
Directive conformity		
Directive 94/9/EC	EN 60079-0:2009, EN 60079-11:2007, EN 61241-11:2006 , EN 60079-15:2010	
<b>International approvals</b>		
FM approval		
Control drawing	116-0118	
UL approval		
Control drawing	116-0139	
CSA approval		
Control drawing	116-0119	
IECEx approval		
Control drawing	IECEx BAS 09.0142	
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I	
<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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