

**Features**

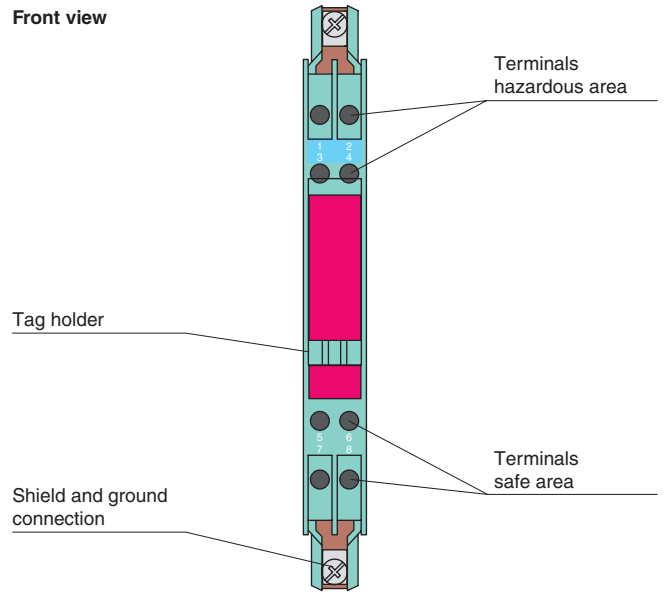
- 1-channel
- DC version, positive polarity
- Working voltage 19 V at 10  $\mu$ A
- Series resistance max. 166  $\Omega$
- Fuse rating 50 mA
- DIN rail mounting

**Function**

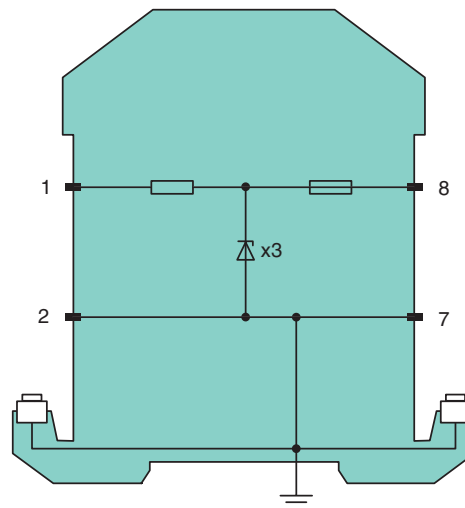
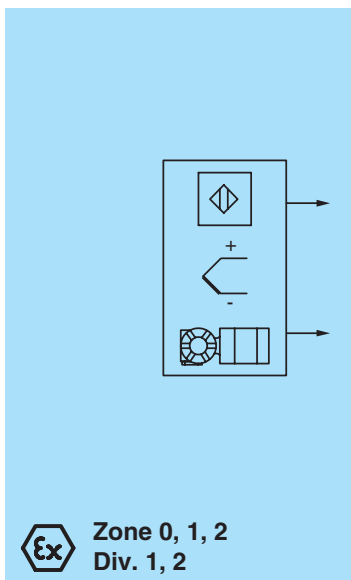
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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**



Zone 2  
Div. 2

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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	150 Ω
Series resistance	max. 166 Ω
Fuse rating	50 mA
<b>Hazardous area connection</b>	
Connection	terminals 1, 2
<b>Safe area connection</b>	
Connection	terminals 7, 8
Working voltage	max. 19.5 V , 19 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 moisture 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 in)
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 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>	22 V
Current I <sub>o</sub>	150 mA
Power P <sub>o</sub>	820 mW
<b>Supply</b>	
Maximum safe voltage U <sub>m</sub>	250 V
Series resistance	min. 147 Ω
Permissible connection values [EEx ia]	
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]
<b>Directive conformity</b>	
Directive 94/9/EC	EN 60079-0:2012, EN 60079-11:2012 , 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	
	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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