

Features

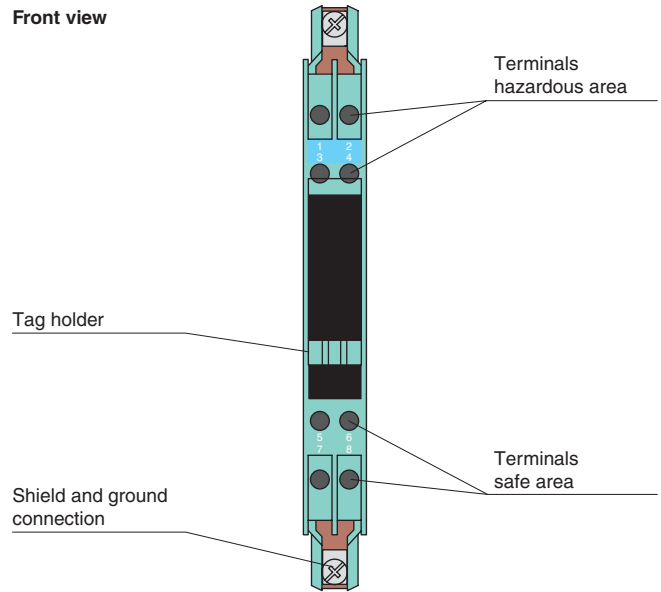
- 1-channel
- DC version, negative polarity
- Working voltage 26.5 V at 10 μ A
- Series resistance max. 327 Ω
- Fuse rating 50 mA
- DIN rail mounting

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

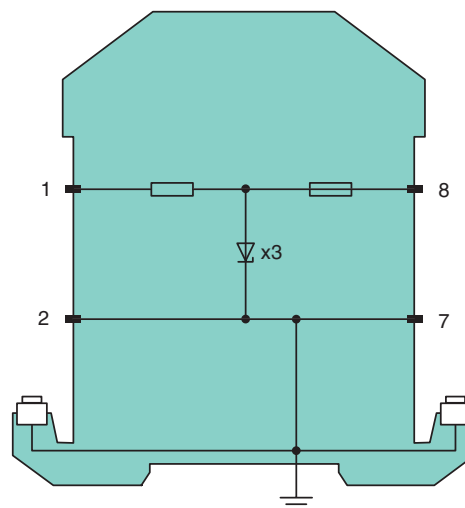
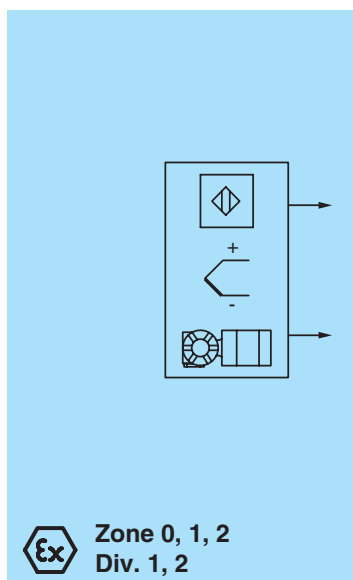
Assembly



CE



Connection



Zone 2
Div. 2

General specifications		
Type	DC version, negative polarity	
Electrical specifications		
Nominal resistance	300 Ω	
Series resistance	≤ 327 Ω	
Fuse rating	50 mA	
Hazardous area connection		
Connection	terminals 1, 2	
Safe area connection		
Connection	terminals 7, 8	
Working voltage		
Supply loop	≤ 27 V	
Measurement loop	≤ 26.5 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 condensation	
Mechanical specifications		
Degree of protection	IP20	
Connection	screw terminals	
Core cross-section	max. 2 x 2.5 ... mm ²	
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	
Data for application in connection with hazardous areas		
EU-type examination certificate		BAS 01 ATEX 7005
Marking		Ⓔ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage	U _o	28 V
Current	I _o	93 mA
Power	P _o	650 mW
Supply		
Maximum safe voltage	U _m	250 V
Series resistance	min. 301 Ω	
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
Marking		Ⓔ II 3G Ex nA IIC T4 Gc [device in zone 2]
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010	
International approvals		
FM approval		
Control drawing	116-0118	
UL approval		
Control drawing	116-0139 (cULus)	
IECEX approval		IECEX BAS 09.0142 IECEX BAS 17.0091X
Approved for	[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec IIC T4 Gc	
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .