



Zener Barrier

Z728.H

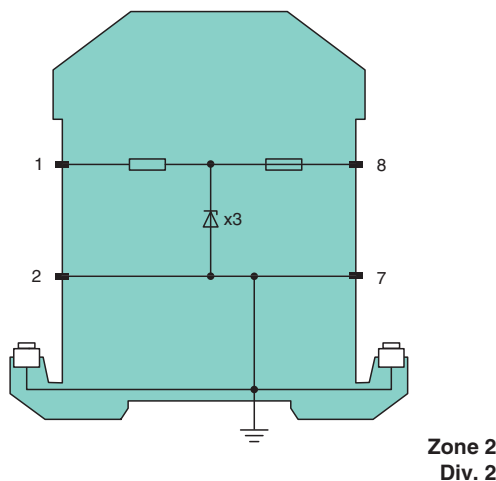
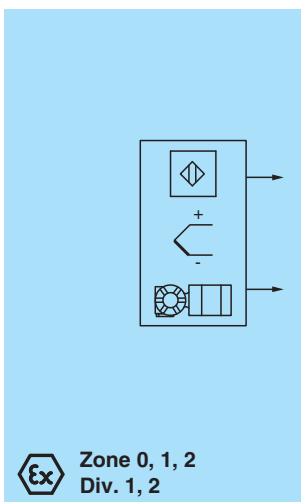
- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 μ A
- Series resistance max. 250 Ω
- Fuse rating 80 mA
- DIN rail mounting
- High power version



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 positive polarity, i. e. the anodes of the zener diodes are grounded. This high power version has a smaller serial resistance and therefore provides higher voltage to the field device.

Connection



Technical Data

General specifications	
Type	DC version, positive polarity
Electrical specifications	
Nominal resistance	240 Ω
Series resistance	max. 250 Ω
Fuse rating	80 mA
Hazardous area connection	
Connection	terminals 1, 2
Safe area connection	
Connection	terminals 7, 8
Working voltage	

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

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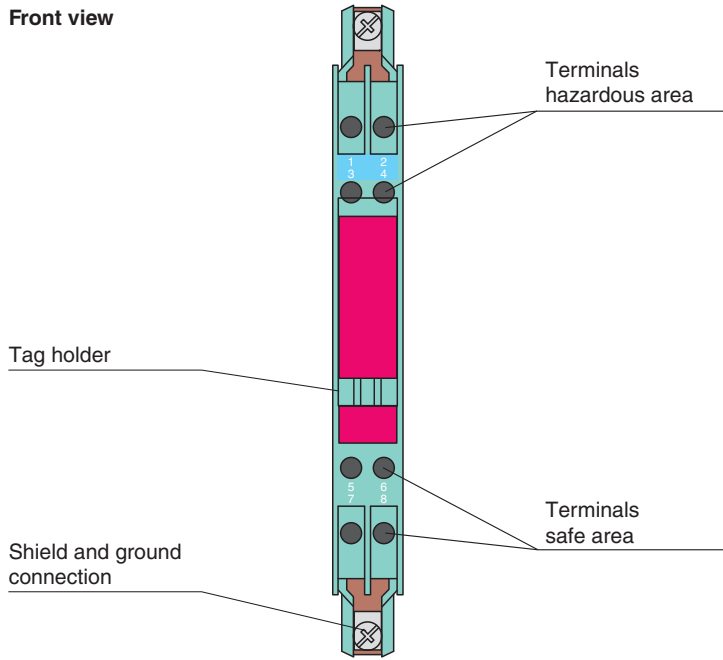
Technical Data

Supply loop	max. 26.9 V		
Measurement loop	max. 26.5 V at 10 μ A		
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 \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]		
Voltage	U _o	28 V	
Current	I _o	120 mA	
Power	P _o	830 mW	
Supply			
Maximum safe voltage	U _m	250 V	
Series resistance	min. 235 Ω		
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 .		

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Assembly

Front view



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