



Zener Barrier

Z728.CL

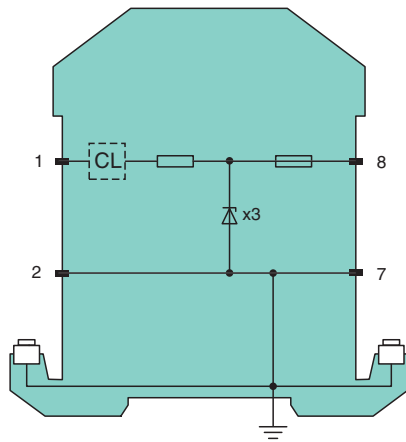
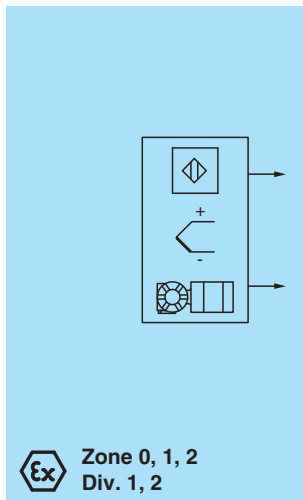
- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 μ A
- Series resistance max. 342 Ω + 2 V
- Fuse rating 50 mA
- DIN rail mountable
- Current limiting



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. The connection to the field circuit is equipped with a current limiting.

Connection



Technical Data

General specifications

Type DC version, positive polarity

Electrical specifications

Nominal resistance 300 Ω
 Series resistance max. 342 Ω +2 V
 Fuse rating 50 mA

Hazardous area connection

Connection terminals 1, 2
 Current limit 45 mA

Safe area connection

Connection terminals 7, 8

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

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Technical Data

Working voltage			
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 116 mm (0.5 x 4.5 x 4.6 inch) (W x H x D)
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
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
Certificate			TÜV 99 ATEX 1484 X
Marking			Ⓜ II 3G Ex nA IIC T4 Gc
Directive conformity			
Directive 2014/34/EU			EN IEC 60079-0:2018+AC:2020 , 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 certificate			IECEx BAS 09.0142 IECEx BAS 17.0091X
IECEx marking			[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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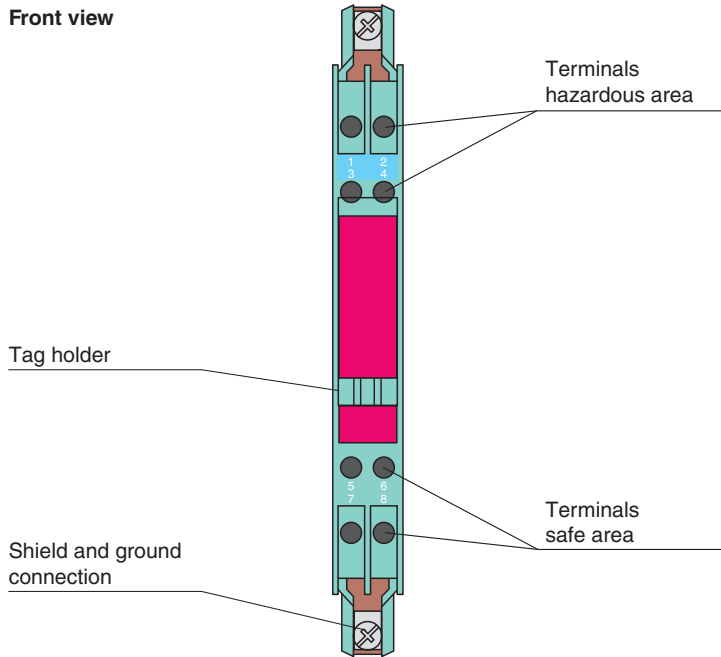
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Assembly

Front view



Matching System Components

	ZH-ES/LB	Insertion Strip
	ZH-Z.AB/NS	Mounting block for DIN mounting rail
	ZH-Z.AB/SS	Mounting block for grounding rail
	ZH-Z.AK16	Connection terminal for grounding rail
	ZH-Z.AR.125	Spacing Roller
	ZH-Z.BT	Label Carrier
	ZH-Z.ES	Single Socket
	ZH-Z.LL	Ground Rail Feed
	ZH-Z.NLS-Cu3/10	Grounding Rail
	USLKG5	Terminal block for equipotential bonding

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