Features

- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 646 Ω
- Fuse rating 50 mA
- · DIN rail mounting

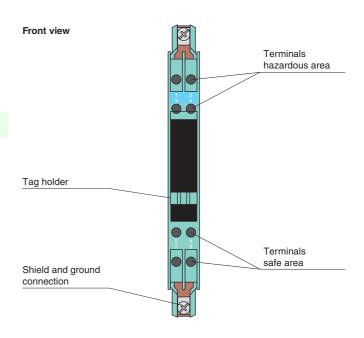
Function

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.

Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

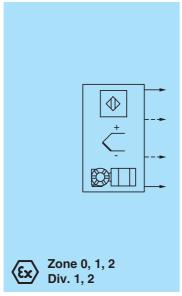
Assembly

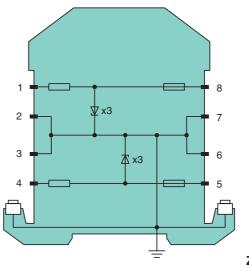






Connection





Div. 2

Zone 2

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

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General specifications		
Туре		DC version, negative polarity
Electrical specifications		
Nominal resistance		600 Ω
Series resistance		≤ 646 Ω
Fuse rating		50 mA
Hazardous area connection	on	
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 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 co	nnection	on to him birt mounting fail acc. to E14 507 15.2001
with hazardous areas	inicotion	
EU-type examination certific	ate	BAS 01 ATEX 7005
Marking		(x) 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	46 mA
Power	Po	320 mW
Supply	U	
Maximum safe voltage	U _m	250 V
Series resistance	- 111	min. 607Ω
Permissible connection valu	es [EEx ia]	
Certificate	[]	TÜV 99 ATEX 1484 X
Marking		⟨ၹ⟩ 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
o_x approvai		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.