Features

- 1-channel
- · DC version, positive polarity
- Working voltage 13 V at 10 μA
- Series resistance max. 1025 Ω
- Fuse rating 100 mA
- · DIN rail mounting
- Increased nominal resistance 1 $k\Omega$

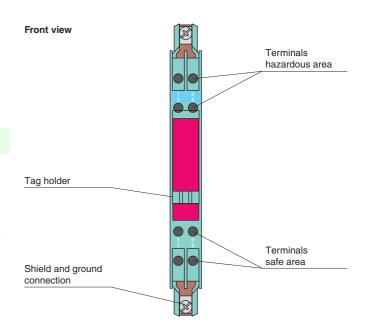
Function

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 Zener Barrier has an increased nominal resistance of 1 $k\Omega.\,$

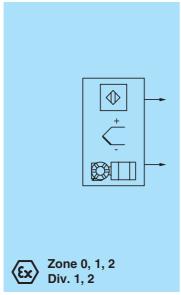
Assembly

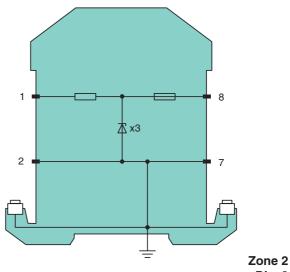






Connection





Div. 2

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

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General specifications		
Туре		DC version, positive polarity
Electrical specifications		
Nominal resistance		1 kΩ
Series resistance		≤ 1025 Ω
Fuse rating		100 mA
Hazardous area connection		
Connection		terminals 1, 2
Safe area connection		
Connection		terminals 7, 8
Working voltage		
Supply loop		≤ 13.3 V
Measurement loop		≤ 13 V at 10 μA
Conformity		2 10 V αι 10 μ/1
•		IEC 60529
Degree of protection Ambient conditions		IEC 00329
		-20 60 °C (-4 140 °F)
Ambient temperature		
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		max. 75 %, without condensation
Mechanical specifications		ID00
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		\textcircled{x} 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	14.7 V
Current	I _o	15 mA
Power	P_{o}	60 mW
Supply		
Maximum safe voltage U _m		250 V
Series resistance		min. 980 Ω
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
Marking		(Ex) 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
CSA approval		110-0100
		116_0110
Control drawing		116-0119
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	1	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For