Features

- 2-channel
- · DC version, positive polarity
- Working voltage 0.9 V at 1 μ A
- Series resistance max. 18.18 Ω
- · Fuse rating 250 mA
- · DIN rail mounting

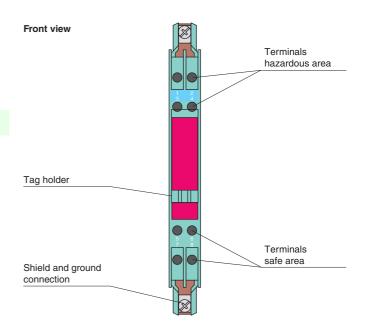
Function

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 positive polarity, i. e. the anodes 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.

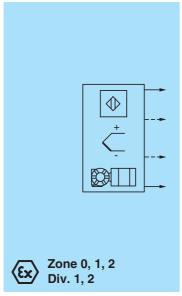
Assembly

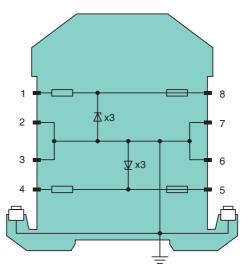






Connection





Zone 2

Div. 2

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

Release date 2018-04-09 08:45 Date of issue 2018-04-09 071792_eng.xml

) 071792 eng.xml
Date of issue 2018-04-09
Release date 2018-04-09 08:45

General specifications		
Туре		DC version, positive polarity
Electrical specifications		
Nominal resistance		10 Ω
Series resistance		≤18.18 Ω
Fuse rating		250 mA
Hazardous area connection	on	
Connection		terminals 1, 2; 3, 4
Safe area connection		(3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Connection		terminals 5, 6; 7, 8
Working voltage		
Supply loop		≤ 4.4 V
Measurement loop		\leq 0.9 V at 1 μ A
Conformity		20.0 γ αι 1 μπ
•		IEC 60529
Degree of protection		IEC 00329
Ambient conditions		00 00 00 / 4 440 05
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity	_	max. 75 %, without condensation
Mechanical specifications	S	
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 with hazardous areas	nnection	
EU-Type Examination Certif	ficate	BAS 01 ATEX 7005
Marking		\textcircled{k} 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	4.94 V
Current	Io	504 mA
Power	Po	620 mW
Supply	ŭ	
Maximum safe voltage	U_m	250 V
Series resistance		min. 9.8 Ω
Permissible connection valu	ues [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
		110 0110
UL approval		116 0120
Control drawing		116-0139
CSA approval		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		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.