Features

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

Function

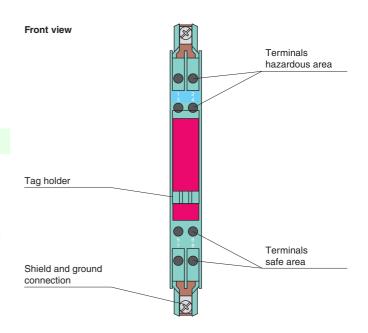
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

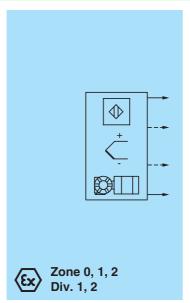
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

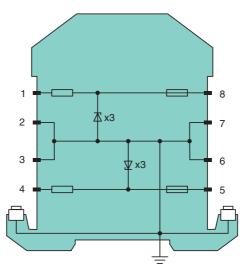
Assembly





Connection





Zone 2 Div. 2

Release date 2016-05-1814:16 Date of issue 2016-05-18 071976_eng.xml

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	n	
Connection		terminals 1, 2; 3, 4
Safe area connection		(Citimale 1, 2, 6, 1
Connection		terminals 5, 6; 7, 8
Working voltage		max. 27 V , 26.5 V at 10 μA
Conformity		παλ. Επ. Τ., 2010 Τ αξ. Το μετ
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 moisture condensation
Mechanical specifications		max. 10 70, without moisture condensation
Degree of protection		IP20
Connection		screw terminals, max. core cross-section 2 x 2.5 mm ²
Mass		
Dimensions		approx. 150 g 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
		,
Construction type Mounting		modular terminal housing , see system description
Mounting Data for application in connection		on 35 mm DIN mounting rail acc. to EN 60715:2001
with Ex-areas		
EC-Type Examination Certificate		BAS 01 ATEX 7005
Group, category, type of protection		$\textcircled{\text{Ex}}$ 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	Io	120 mA
Power	P_{o}	830 mW
Supply		
Maximum safe voltage	U_{m}	250 V
Series resistance		min. 235Ω
Statement of conformity		TÜV 99 ATEX 1484 X
Group, category, type of protection, temperature class		(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		
Control drawing		116-0119
IECEx approval		IECEx BAS 09.0142
Approved for		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information		
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

