Features

- 2-channel
- · DC version, positive polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 640 Ω
- Fuse rating 50 mA
- · DIN rail mounting
- · With diode return

Function

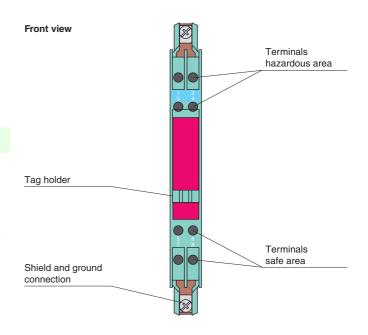
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 is for evaluation of signals from the hazardous area. The diodes of diode return prevent a current into the hazardous area, therefore the current assumption for intrinsic safety calculations is zero.

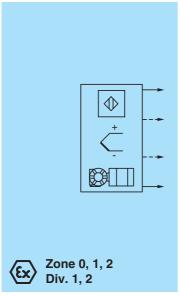
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

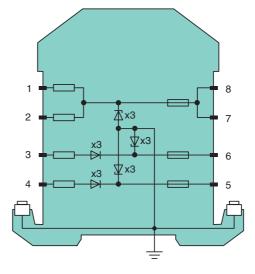
Assembly





Connection





Zone 2

Div. 2

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General specifications		
Type		DC version, positive polarity
Electrical specifications		
Nominal resistance		300 Ω
Series resistance		max. $640~\Omega$
Fuse rating		50 mA
Hazardous area connection		
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 7, 8
Working voltage		max. 27 V , 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 moisture condensation
Mechanical specifications		
Degree of protection		IP20
Connection		screw terminals, max. core cross-section 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 in)
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		on or min birt modificing rule door to be or to be or
with Ex-areas		
EC-Type Examination Certificate		BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		\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	Uo	28 V
Current	I _o	91.2 mA
Power	P _o	638 mW
Supply	Ü	
Maximum safe voltage	U _m	250 V
Series resistance		min. 307Ω
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of protection, temperature class		(x) II 3G Ex nA IIC T4 Gc [device in zone 2]
Directive conformity		
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010
International approvals		
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.

