Features

- 3-channel
- · AC version
- Working voltage 0.6 V at 1 μA
- Series resistance max. 27.27 Ω
- Fuse rating 50 mA
- · DIN rail mounting

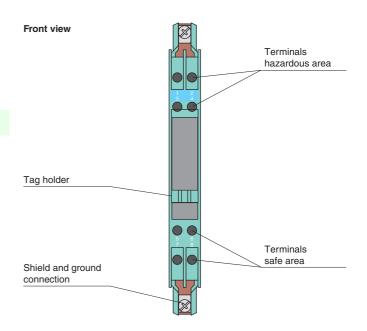
Function

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 alternating polarities, i. e. interconnected zener diodes are employed and one side is grounded. The Zener Barrier can be used for both alternating voltage signals and direct voltage signals.

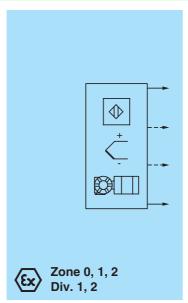
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

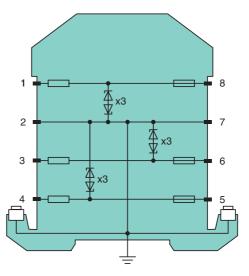
Assembly





Connection





Zone 2 Div. 2

Div. 2

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General specifications		
Туре		AC version
Electrical specifications		
Nominal resistance		12 Ω
Series resistance		max. $27.27~\Omega$
Fuse rating		50 mA
Hazardous area connection	on	
Connection		terminals 1, 2; 2, 3; 2, 4
Safe area connection		
Connection		terminals 5, 7; 6, 7; 8, 7
Working voltage		max. 3.7 V , 0.6 V at 1 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	3	
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 co	nnection	on to him birt modificing fail doc. to birt our 15.2501
with Ex-areas		
EC-Type Examination Certif	ficate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, category, type of	protection	$\langle x \rangle$ 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	4.5 V
Current	I _o	383 mA
Power	P _o	430 mW
Supply		
Maximum safe voltage	U _m	250 V
Series resistance		min. 11.76 Ω
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of p	protection,	(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		
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		r
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.

