## **Features**

- 2-channel
- · AC version
- Working voltage 13 V at 10 μA
- Series resistance max. 115  $\Omega$
- Fuse rating 50 mA
- · DIN rail mounting
- · Star connection

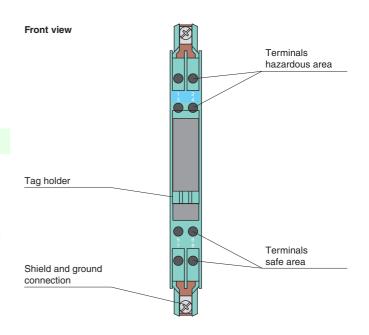
## **Function**

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.

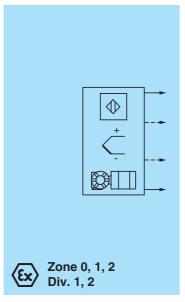
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

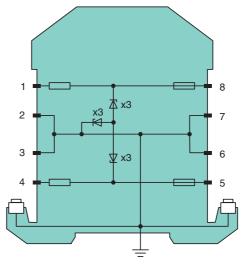
## **Assembly**





## Connection





Zone 2 Div. 2

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

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General specifications				
Туре		AC version		
Electrical specifications	;			
Nominal resistance 1		100 Ω		
Series resistance		≤115Ω		
Fuse rating		50 mA		
Hazardous area connec	tion			
Connection		terminals 1, 2; 3, 4		
Safe area connection				
		terminals 5, 6; 7, 8		
Working voltage				
		≤ 13.6 V		
117 1		≤ 13 V at 10 μA		
Conformity		_ 10 1 dt 10 pt 1		
•		IEC 60529		
Ambient conditions		120 00020		
Ambient temperature		-20 60 °C (-4 140 °E)		
		-20 60 °C (-4 140 °F)		
		-25 70 °C (-13 158 °F)		
Relative humidity  Mechanical specifications		max. 75 %, without condensation		
•	ns	IDOO		
J 1		IP20		
		screw terminals		
		max. 2 x 2.5 mm <sup>2</sup>		
		approx. 150 g		
Dimensions 12.5 x 115 x 110 m		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 inch)		
Construction type n		modular terminal housing , see system description		
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001		
Data for application in c with hazardous areas	onnection			
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 <sub>amb</sub> $\leq$ 60 °C) [circuit(s) in zone 0/1/2]		
Voltage	$U_o$	15 V		
Current	I <sub>o</sub>	153 mA		
Power	Po	570 mW		
Supply				
		250 V		
Series resistance		min. 98 $\Omega$		
Permissible connection va	lues [EEx ia]			
Certificate		TÜV 99 ATEX 1484 X		
		(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				
		116-0118		
UL approval				
		116-0139		
Control drawing CSA approval		110-0100		
		116_0110		
Ů.		116-0119		
		IECEx BAS 09.0142 IECEx BAS 17.0091X		
		[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec IIC T4 Gc		
General information				
Supplementary information Obinf		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For		

