## **Features**

- 2-channel
- · AC version
- Working voltage 6.5 V at 10 μA
- Series resistance max. 79  $\Omega$
- Fuse rating 50 mA
- · DIN rail mounting
- · Replaceable fuse
- · Star connection

## **Function**

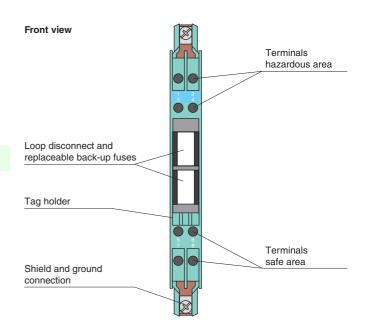
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

Additionally this Zener Barrier is equipped with a replaceable fuse.

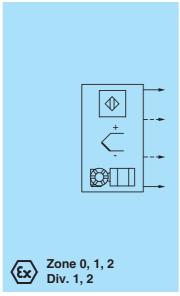
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

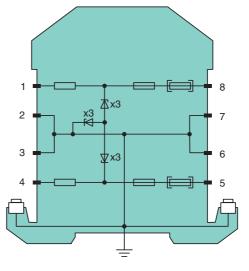
## **Assembly**





## Connection





Zone 2

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General specifications		
Туре		AC version
Electrical specifications		
Nominal resistance		10 Ω
Series resistance		max, 79 $Ω$
Fuse rating		50 mA
Hazardous area connect	ion	
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 7, 8
Working voltage		max. 8.8 V , 6.5 V at 10 μA
Conformity		παλ. 0.0 ν , 0.3 ν αι το μλ
•		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 moisture condensation
Mechanical specification	S	I Doo
Degree of protection		IP20
Connection		self-opening connection terminals, max. core cross-section 2 x 2.5 mm <sup>2</sup>
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 with Ex-areas	nnection	
EC-Type Examination Cert	ificate	BAS 00 ATEX 7096, for additional certificates see www.pepperl-fuchs.com
Group, category, type of	protection	(x) II (1)GD, I (M1) [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage	U <sub>o</sub>	9.94 V
Current	I <sub>o</sub>	203 mA
Power	Po	510 mW
Supply	U	
Maximum safe voltage	U <sub>m</sub>	250 V
Series resistance	→m	$\min$ 49 $\Omega$
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of	protection,	(x) II 3G Ex nA II T4 [device in zone 2]
temperature class		
Directive conformity		EN COOZO 0.0010 EN COOZO 11.0010 EN COOZO 15.0010
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010
International approvals		
FM approval		440.0440
Control drawing		116-0118
UL approval		
Control drawing		116-0355 (cULus)
CSA approval		
Control drawing		116-0119
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.