## **Features**

- 2-channel
- · DC version, negative polarity
- Working voltage 6 V at 10 μA
- Series resistance max. 15.5  $\Omega$
- Fuse rating 200 mA
- · DIN rail mounting

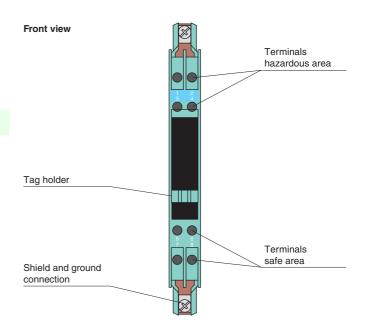
## **Function**

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 a negative polarity, i. e. the cathodes of the zener diodes are grounded.

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.

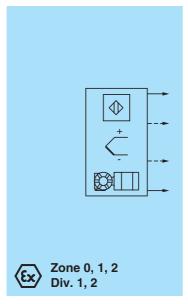
## **Assembly**

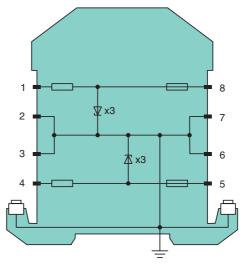






## Connection





Zone 2 Div. 2

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

Release date 2014-11-0410:22 Date of issue 2015-02-16 071890\_eng.xml

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General specifications		
Туре		DC version, negative polarity
<b>Electrical specifications</b>		
Nominal resistance		10 Ω
Series resistance		max. 15.5 $\Omega$
Fuse rating		200 mA
Hazardous area connecti	on	
Connection		terminals 1, 2; 3, 4
Safe area connection		
Connection		terminals 5, 6; 7, 8
Working voltage		max. $6.4V$ , $6V$ at $10\mu A$
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	S	,
Degree of protection	-	IP20
Connection		self-opening connection terminals,
_ 300011		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 Certi	ficate	BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of		$\langle x \rangle$ 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 <sub>o</sub>	7.14 V
Current	I <sub>o</sub>	729 mA
Power	P <sub>o</sub>	1.3 W
Supply	U	
Maximum safe voltage	U <sub>m</sub>	250 V
Series resistance	-111	$\min$ 9.8 $\Omega$
Permissible connection valu	ues [EEx ia]	
Statement of conformity		TÜV 99 ATEX 1484 X, observe statement of conformity
Group, category, type of temperature class	protection,	⟨EX 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		110 0100
CSA approval  Control drawing		116-0119
IECEx approval		IECEx BAS 09.0142
Approved for		[Ev in Cal IIC [Ev in Dal IIIC [Ev in Ma] ]
Approved for		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information		EC Type Evamination Contificate Statement of Conformity Designation of Conformity Attactation of
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.