## **Features**

- 2-channel
- · DC version, negative polarity
- Working voltage 0.9 V at 1  $\mu$ A
- Series resistance max. 18.18  $\Omega$
- · Fuse rating 250 mA
- · DIN rail mounting

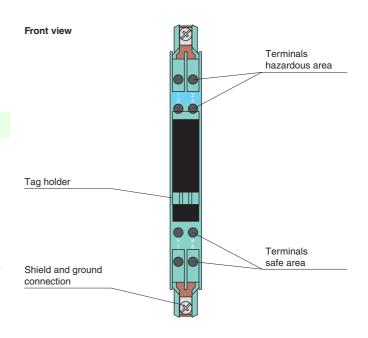
## **Function**

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.

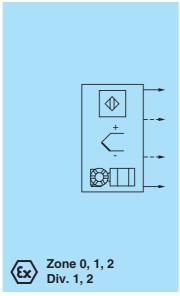
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

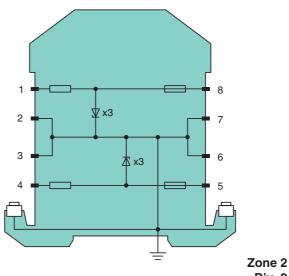
## **Assembly**





## Connection





Div. 2

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2010-03-17 0
Date of issue
2010-03-17 14:55
Release date 20
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General specific	ations	
Туре		DC version, negative polarity
Electrical specifi	cations	
Nominal resistanc	e	10 Ω
Series resistance		max. 18.18 $\Omega$
Fuse rating		250 mA
Hazardous area	connection	
Connection		terminals 1, 2; 3, 4
Safe area conne	ction	
Connection		terminals 5, 6; 7, 8
Rated voltage		5 V
Supply voltage		max. 4.8 V
Working voltage		0.9 V at 1 μA
Conformity		
Protection degree		IEC 60529
Ambient condition		
Ambient temperat		-20 60 °C (-4 140 °F)
•		-25 70 °C (-13 140 °F)
Storage temperat	uie	max. 75 %, without moisture condensation
Relative humidity	ifications	max. 70 /0, without moisture condensation
Mechanical spec		IDOO
Protection degree		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		mounting on 35 mm DIN rail acc. to DIN EN 60715
Data for applicat with Ex-areas	ion in connection	
EC-Type Examina	ation Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, categor	y, type of protection	$\textcircled{k}$ II (1)GD [EEx ia] IIC (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C)
Voltage	$U_o$	4.94 V
Current	Io	504 mA
Power	$P_{o}$	620 mW
Supply		
Maximum safe	voltage U <sub>m</sub>	250 V
Series resistance		min. $9.8~\Omega$
Statement of conf	ormity	TÜV 99 ATEX 1484 X , observe statement of conformity
Group, categor temperature cla	y, type of protection, assification	
Directive conform		
Directive 94/9/E	•	EN 50014, EN 50020, EN 50021
International app		
FM approval		
Control drawing	7	116-0118
JL approval	<del>.</del>	1100110
	7	116.0130
Control drawing	9	116-0139
CSA approval	_	110 0110
Control drawing	•	116-0119
General informat		
Supplementary in	formation	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.