## **Features**

- 1-channel
- · DC version, negative polarity
- Working voltage 13 V at 10 μA
- Series resistance max. 1025  $\Omega$
- Fuse rating 100 mA
- · DIN rail mounting
- Increased nominal resistance 1  $k\Omega$

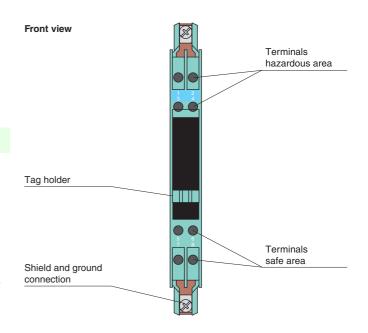
## **Function**

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.

The Zener Barrier has an increased nominal resistance of 1 kΩ.

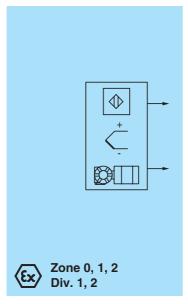
## **Assembly**

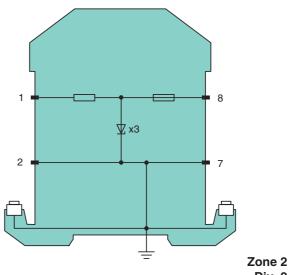






## Connection





Div. 2

General specific	ations	
Туре		DC version, negative polarity
Electrical specif	fications	
Nominal resistance		1 kΩ
Series resistance		max. $1025\Omega$
Fuse rating		100 mA
Hazardous area	connection	
Connection		terminals 1, 2
Safe area conne	ection	
Connection		terminals 7, 8
Rated voltage		15 V
Supply voltage		max. 13.6 V
Working voltage		13 V at 10 μA
Conformity		10 ν αι 10 μ/ι
•		IEC 60529
Protection degree  Ambient conditions		ILO 00023
		20 60 °C (4 140 °E)
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity  Mechanical specifications		max. 75 %, without moisture condensation
-		l Inco
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 applica with Ex-areas	tion in connection	
EC-Type Examination Certificate		BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		$\langle x \rangle$ II (1)GD [EEx ia] IIC (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C)
Voltage	U <sub>o</sub>	14.7 V
Current	I <sub>o</sub>	15 mA
Power	P <sub>o</sub>	60 mW
Supply	<u> </u>	
Maximum safe	voltage U	250 V
Series resistance		min. 98 $\Omega$
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of protection, temperature classification		( S II 3G EEx nA II T4 X
Directive conform		
Directive 94/9/EC		EN 50014, EN 50020, EN 50021
International approvals		LIN SOUT, LIN SOUZU, LIN SOUZI
-	ρισναιο	
FM approval		116 0110
Control drawing		116-0118
UL approval		440,0400
Control drawing		116-0139
CSA approval		
Control drawing		116-0119
General informa	ition	
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.