## Features

- 2-channel
- · DC version, positive polarity
- Working voltage 5 V at 2 μA
- Series resistance max. 213  $\Omega$
- Fuse rating 125 mA
- Terminal Base or Termination Board mounting, pluggable
- Replaceable fuse

## **Function**

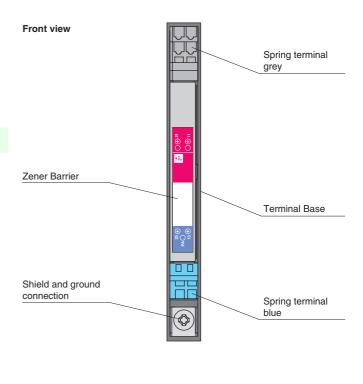
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 positive polarity, i. e. the anodes of the zener diodes are grounded.

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.

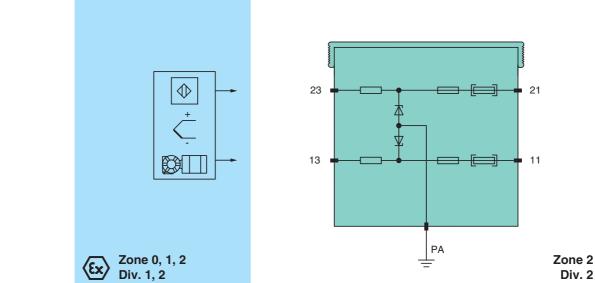
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).



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Assembly

## Connection



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Div. 2

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General specifications					
		DC version, positive polarity			
Electrical specifications		Do version, positive polarity			
Nominal resistance		without back-up fuse 206 $\Omega$ , with back-up fuse 209.5 $\Omega$			
		without back-up fuse $200.32$ , with back-up fuse $209.3.32$ without back-up fuse max. $209 \Omega$ , with back-up fuse max. $213 \Omega$			
		internal fuse 125 mA, back-up fuse (fast acting) 125 mA			
Fuse rating		Internal fuse 125 mA, back-up fuse (last acting) 125 mA			
Hazardous area connection		terminale 10:00			
Connection		terminals 13; 23			
Safe area connection		tempirals 44:04			
Connection		terminals 11; 21			
Working voltage		5 V at 2 µA			
Conformity					
Protection degree		IEC 60529			
Ambient conditions					
Ambient temperature		-20 60 °C (-4 140 °F)			
Storage temperature		-40 80 °C (-40 176 °F)			
Relative humidity		< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation			
Mechanical specifications					
Protection degree		IP20 (installed on Terminal Base or Termination Board)			
Connection		wiring via Terminal Base or Termination Board			
Mass		approx. 70 g			
Dimensions		9.7 x 70.4 x 68.2 mm (0.4 x 2.8 x 2.7 in)			
Construction type		pluggable housing			
Mounting		Terminal Base or Termination Board mounting on 35 mm DIN rail acc. to DIN EN 60715			
Data for application in conr with Ex-areas	nection				
EC-Type Examination Certificate		TÜV 99 ATEX 1449 X , for additional certificates see www.pepperl-fuchs.com			
Group, category, type of protection		<ul> <li>⟨x⟩ II (1) G [Ex ia] IIC</li> <li>⟨x⟩ II (1) D [Ex iaD]</li> </ul>			
Voltage	Uo	5.9 V			
Current	I <sub>o</sub>	30 mA			
Power	Po	44 mW			
Supply	Ū				
Maximum safe voltage	U <sub>m</sub>	250 V			
Directive conformity					
Directive 94/9/EC		EN 60079-0:2009, EN 60079-11:2007, EN 60079-15:2005, EN 61241-11:2006			
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.			
Accessories					
Designation		Terminal Base for 1 Zener Barrier: SB9101 Termination Board for 6 Zener Barriers: SB9106 Termination Board for 10 Zener Barriers: SB9100 grounding rail for 20 units: SB9220 grounding rail for 10 units: SB9221 grounding rail for 6 units: SB9222			

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2