Features

- 2-channel
- · DC version, positive polarity
- Working voltage 5 V at 2 μA
- Series resistance max. 112 Ω
- Fuse rating 125 mA
- Terminal Base or Termination Board mounting, pluggable
- · Replaceable fuse

Function

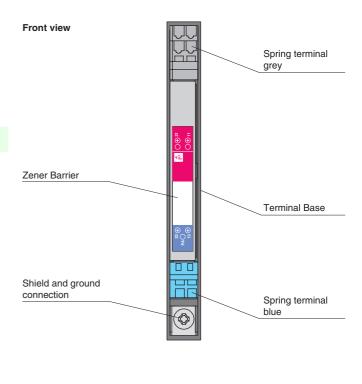
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

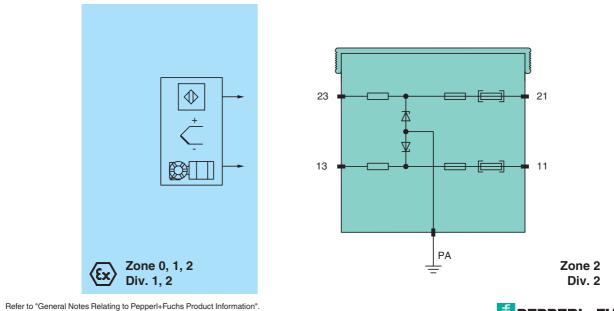
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).



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Assembly

Connection



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General specifications					
-		DC varaion positive polarity			
Type		DC version, positive polarity			
Electrical specifications		without healt we free 100.0. with healt we free 100.5.0.			
Nominal resistance		without back-up fuse 106 Ω , with back-up fuse 109.5 Ω			
Series resistance		without back-up fuse max. 108Ω , with back-up fuse max. 112Ω			
Fuse rating		internal fuse 125 mA , back-up fuse (fast acting) 125 mA			
Hazardous area connection					
Connection		terminals 13; 23			
Safe area connection					
Connection		terminals 11; 21			
Working voltage		5 V at 2 µA			
Conformity					
Degree of protection		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					
Degree of protection		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 conne with Ex-areas	ection				
EC-Type Examination Certificate		TÜV 99 ATEX 1449 X, for additional certificates see www.pepperl-fuchs.com			
Group, category, type of protection		 (ix) II (1) G [Ex ia] IIC (ix) II (1) D [Ex iaD] 			
Voltage	Uo	5.9 V			
Current	I _o	59 mA			
Power	Po	87 mW			
Supply	0				
Maximum safe voltage	U _m	250 V			
Directive conformity					
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2007			
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			

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

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