

Features

- 1-channel
- DC version, positive polarity
- Working voltage 8 V at 2 μ A
- Series resistance max. 70.5 Ω
- Fuse rating 125 mA
- Terminal Base or Termination Board mounting, pluggable
- Replaceable fuse

Function

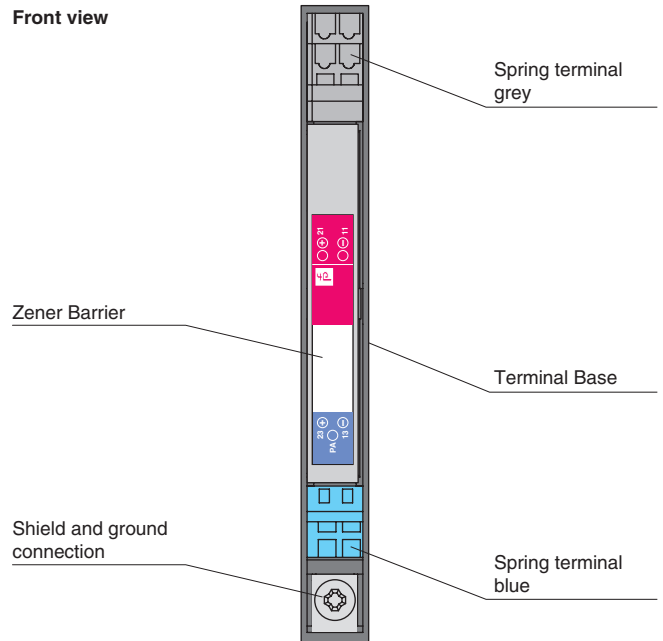
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

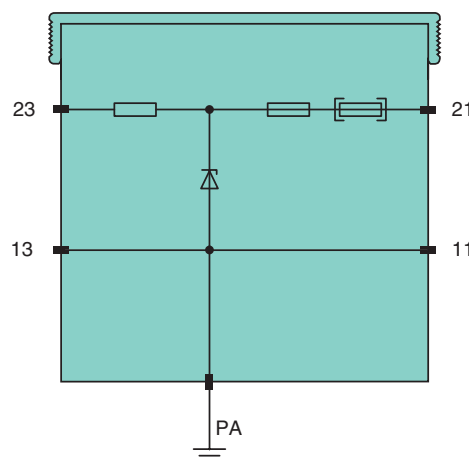
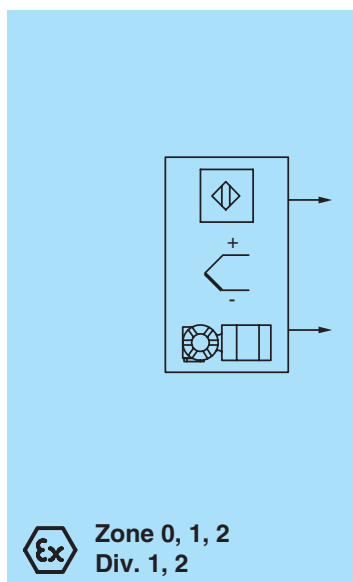
Additionally this Zener Barrier is equipped with a replaceable fuse.

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

Assembly





Connection



**Zone 2
Div. 2**

Release date 2012-12-14 13:11 Date of issue 2012-12-14 545510_eng.xml

General specifications		
Type	DC version, positive polarity	
Electrical specifications		
Nominal resistance	without back-up fuse 65 Ω , with back-up fuse 68.5 Ω	
Series resistance	without back-up fuse max. 66.5 Ω , with back-up fuse max. 70.5 Ω	
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	8 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 connection with Ex-areas		
EC-Type Examination Certificate	TÜV 99 ATEX 1449 X , for additional certificates see www.pepperl-fuchs.com	
Group, category, type of protection	 II (1) G [Ex ia] IIC  II (1) D [Ex iaD]	
Voltage	U _o	9.9 V
Current	I _o	170 mA
Power	P _o	420 mW
Supply		
Maximum safe voltage	U _m	250 V
Directive conformity		
Directive 94/9/EC	EN 60079-0:2009, 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	