Features

- 2-channel
- · DC version, negative polarity
- Working voltage 12 V at 2 μA
- Series resistance max. 63.5 Ω
- Fuse rating 63 mA
- Terminal Base or Termination Board mounting, pluggable
- · Replaceable fuse

Function

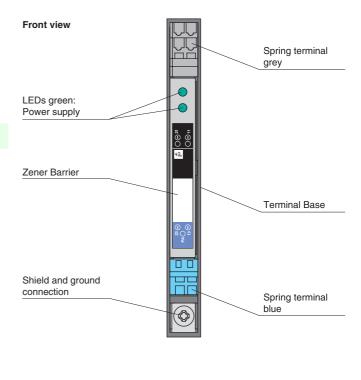
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 negative polarity, i. e. the cathodes 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.

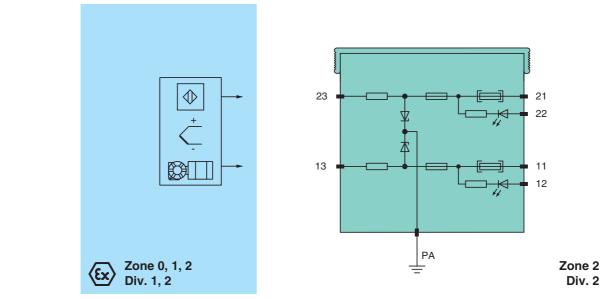
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).



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Assembly

Connection



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Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com



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General specifications			
Туре	DC version, negative polarity		
Electrical specifications	Do version, negative polarity		
Nominal resistance	without back-up fuse 50 Ω , with back-up fuse 60.5 Ω		
Series resistance			
Fuse rating	without back-up fuse max. 52.5 Ω , with back-up fuse max. 63.5 Ω internal fuse 63 mA, back-up fuse (fast acting) 63 mA		
Ū	memanuse os ma , back-up luse (last acting) os ma		
Hazardous area connection	terminale 19:00		
Connection	terminals 13; 23		
Safe area connection	terminale 11, 10: 01, 00		
Connection	terminals 11, 12; 21, 22		
Working voltage	12 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 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	 ⟨𝔅⟩ II (1) G [Ex ia] IIC ⟨𝔅⟩ II (1) D [Ex iaD] 		
Voltage U _o	15 V		
Current I _o	387 mA		
Power P _o	1450 mW		
Supply			
Maximum safe voltage U _m	250 V		
Directive conformity			
Directive 94/9/EC	EN 60079-0, EN 60079-11, EN60079-26, EN 61241-0, EN 61241-11		
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". Pepperl+Fuchs Group www.pepperl-fuchs.com

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