Features

- 1-channel
- · AC version
- Working voltage 18 V at 2 μA
- Series resistance max. 495 Ω
- · Fuse rating 32 mA
- Terminal Base or Termination Board mounting, pluggable
- · Replaceable fuse

Function

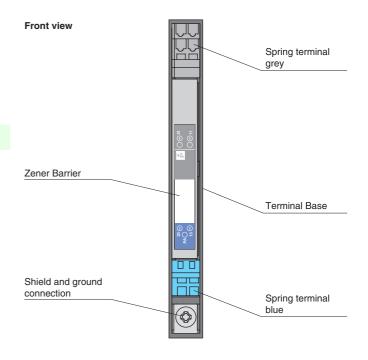
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 alternating polarities, i. e. interconnected zener diodes are employed and one side is grounded. The Zener Barrier can be used for both alternating voltage signals and direct voltage signals.

Additionally this Zener Barrier is equipped with a replaceable fuse.

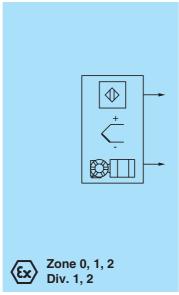
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).

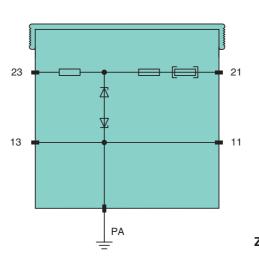
Assembly





Connection





Zone 2 Div. 2

General specific	ations	
Туре		AC version
Electrical specifications		
Nominal resistance		without back-up fuse 449 Ω , with back-up fuse 465.5 Ω
Series resistance		without back-up fuse max. 475 Ω , with back-up fuse max. 495 Ω
Fuse rating		internal fuse 32 mA, back-up fuse 32 mA
Hazardous area connection		
Connection		terminals 13, 23
Safe area connection		
Connection		terminals 11, 21
Working voltage		18 V at 2 μA
Conformity		
Protection degree		IEC 60529
Ambient conditi		120 00020
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 80 °C (-40 176 °F)
Relative humidity		<75 % (annual mean)
riolative Hulfilalty		< 95 % (30 d/year), no moisture condensation
Mechanical spec	cifications	
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 applications with Ex-areas	tion in connection	
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	Uo	27.1 V
Current	I _o	66 mA
Power	Po	449 mW
Supply	· ·	
Maximum safe	voltage U _m	250 V
Directive conform		
Directive 94/9/EC		EN 60079-0, EN 60079-11, EN60079-26, EN 61241-0, EN 61241-11
General informa		
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