Features

- 1-channel
- · AC version
- Working voltage 6 V at 2 μA
- Series resistance max. 179 Ω
- Fuse rating 80 mA
- Terminal Base or Termination Board mounting, plugable
- · Replaceable fuse

Function

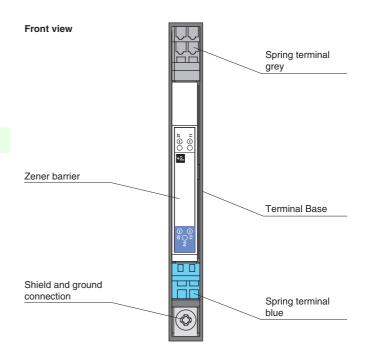
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

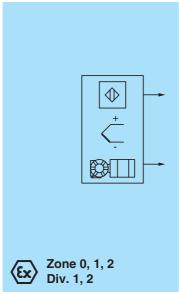
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).

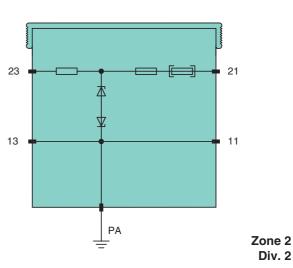
Assembly





Connection





Div. 2

Subject to reasonable modifications due to technical advances.

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Electrical specif	fications	
Nominal resistance		without back-up fuse 3.3 $\text{k}\Omega$, with back-up fuse 3.3 $\text{k}\Omega$
Series resistance		without back-up fuse max. 3.4 $k\Omega$, with back-up fuse max. 3.4 $k\Omega$
Fuse rating		internal fuse 100 mA , back-up fuse 80 mA
Hazardous area connection		
Connection		terminals 13, 23
Safe area connection		
Connection		terminals 11, 21
Working voltage		6 V at 2 μA
Conformity		
Protection degree		IEC 60529
Ambient conditions		
Ambient temperature		-40 60 °C (233 333 K)
Storage temperature		-40 80 °C (233 353 K)
· · ·		<75 % (annual mean)
Relative humidity		< 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 conjunction		Totalina base of Totalination board mounting of so film birthan ass. to birt birthorn
with hazardous areas		
EC-Type Examination Certificate		TÜV 99 ATEX 1449 X , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		(ऒ II (1)G [EEx ia] IIC
Voltage	U _o	8.8 V
Current	I _o	57 mA
Power	P _o	7 mW
Supply	- 0	
Safety maximum voltage U _m		250 V
Directive conform		
Directive 94/9 EC		EN 50014, EN 50020
International approvals		EN 00014, EN 000E0
UL approval	provuis	
Control drawing		16-557UL-12 (cULus)
General information		10-3370L-12 (coLus)
Supplementary information		EC Tune Exemination Contificate Statement of Conformity Declaration of Conformity and instructions have
		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.
Accessories		The state of the s
Designation		Terminal Base for 1 Zener Barrier: SB9101
Designation		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