Features

- 1-channel
- · DC version, positive polarity
- Working voltage 6 V at 2 μA
- Series resistance max. 84 Ω
- Fuse rating 50 mA
- · Terminal Base or Termination Board mounting, plugable

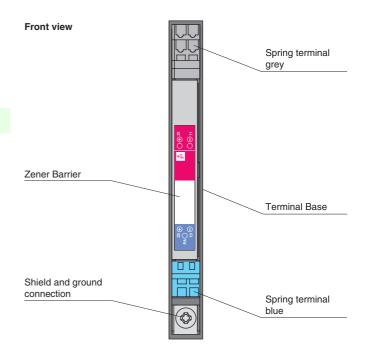
Function

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.

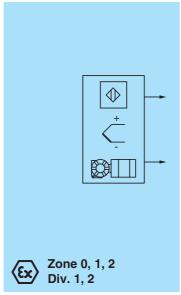
Zener Barriers will be supplied without terminal base or termination board. Please order separately (accessories see technical data).

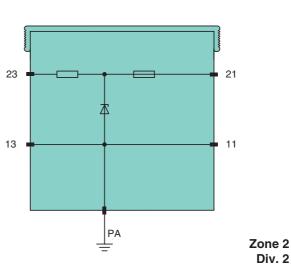
Assembly





Connection





Div. 2

General specifications Type Electrical specification Nominal resistance Series resistance Fuse rating Hazardous area connection Connection Safe area connection Connection Working voltage Conformity	ns	DC version, positive polarity 81 Ω max. 84 Ω 50 mA terminals 13, 23 terminals 11, 21 6 V at 2 μ A
Nominal resistance Series resistance Fuse rating Hazardous area connection Connection Safe area connection Connection Working voltage		max. $84~\Omega$ 50 mA terminals 13, 23 terminals 11, 21
Nominal resistance Series resistance Fuse rating Hazardous area connection Connection Safe area connection Connection Working voltage		max. $84~\Omega$ 50 mA terminals 13, 23 terminals 11, 21
Fuse rating Hazardous area connection Safe area connection Connection Working voltage	ection	50 mA terminals 13, 23 terminals 11, 21
Fuse rating Hazardous area connection Safe area connection Connection Working voltage	ection	50 mA terminals 13, 23 terminals 11, 21
Hazardous area connection Connection Safe area connection Connection Working voltage	ection	terminals 13, 23 terminals 11, 21
Connection Safe area connection Connection Working voltage		terminals 11, 21
Safe area connection Connection Working voltage		terminals 11, 21
Connection Working voltage		
Working voltage		
		ο V αι 2 μ Υ
•		IEC 60529
Protection degree Ambient conditions		IEC 00029
		00 00 00 (000 000 1/)
Ambient temperature		-20 60 °C (253 333 K)
Storage temperature		-40 80 °C (233 353 K)
Relative humidity		< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Mechanical specificati	ions	
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 with hazardous areas	conjunction	
EC-Type Examination Certificate		TÜV 99 ATEX 1449 X, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		 ⟨₤⟩ (1)G [Ex ia] C ⟨₤⟩ (1)D [Ex iaD]
Voltage	U _o	10 V
-	I _o	200 mA
	Po	500 mW
Supply	· U	
Safety maximum 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		ER 55575 6, ER 50575 11, ER50575 25, ER 57271 6, ER 57271 1
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have
Acceptation		to be observed where applicable. For information see www.pepperl-fuchs.com.
Accessories		Torminal Page for 1 Zoner Paging SP0101
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