## Features

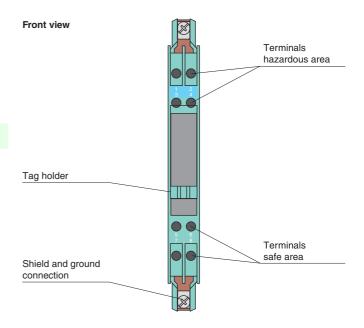
- 1-channel
- · AC version
- Working voltage 13 V at 10  $\mu$ A
- Series resistance max. 1025  $\Omega$
- Fuse rating 100 mA
- DIN rail mounting
- Increased nominal resistance 1  $k\Omega$

## 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.

The Zener Barrier has an increased nominal resistance of 1  $k\Omega.$ 

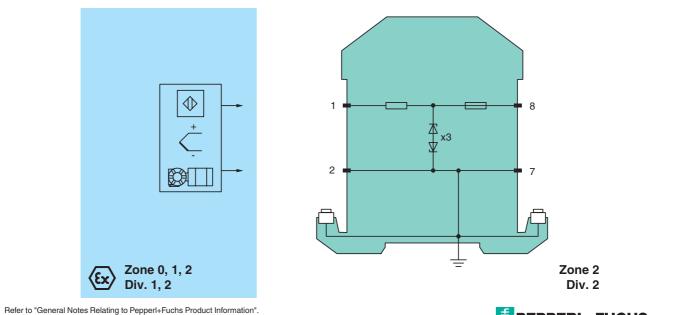


CE

Assembly

## (£x

## Connection



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General specifications		
		AC version
Type	,	AC VEISION
Electrical specifications Nominal resistance	-	1 κΩ
Series resistance		max. 1025 Ω
Fuse rating		100 mA
Hazardous area connection		TOUTIA
Connection		terminals 1, 2
Safe area connection		lettilinais 1, 2
Connection		terminals 7, 8
Working voltage Conformity		max. 13.6 V,13 V at 10 μA
Degree of protection		IEC 60529
Ambient conditions		EC 00329
Ambient temperature		
Storage temperature		-20 60 °C (-4 140 °F)
Relative humidity		-25 70 °C (-13 158 °F)
Mechanical specifications		max. 75 %, without moisture condensation
Degree of protection		P20
Connection		IP20 self-opening connection terminals,
Connection		max. core cross-section 2 x 2.5 mm <sup>2</sup>
Mass	a	approx. 150 g
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
Construction type		modular terminal housing, see system description
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		ⓑ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ $T_{amb}$ ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage	l <sub>o</sub> 1	15 V
Current	, 1	15 mA
Power	o 6	60 mW
Supply		
Maximum safe voltage	m 2	250 V
Series resistance	r	min. 980 $\Omega$
Permissible connection values [EEx ia]		
Statement of conformity		TÜV 99 ATEX 1484 X, observe statement of conformity
Group, category, type of protection, temperature class		🐼 II 3G Ex nA IIC T4 Gc [device in zone 2]
Directive conformity		
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010
International approvals		
FM approval		
Control drawing		116-0118
UL approval		
Control drawing		116-0139
CSA approval		
Control drawing		116-0119
IECEx approval		ECEx BAS 09.0142
Approved for		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
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.

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