Assembly

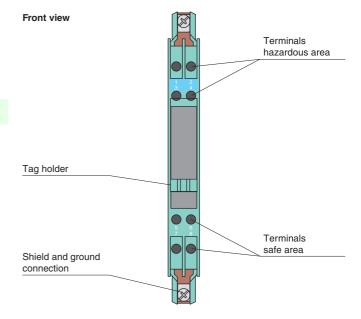
Features

- 1-channel
- AC version
- Working voltage 13 V at 10 μA
- Series resistance max. 107 Ω
- Fuse rating 100 mA
- DIN rail mounting

Function

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

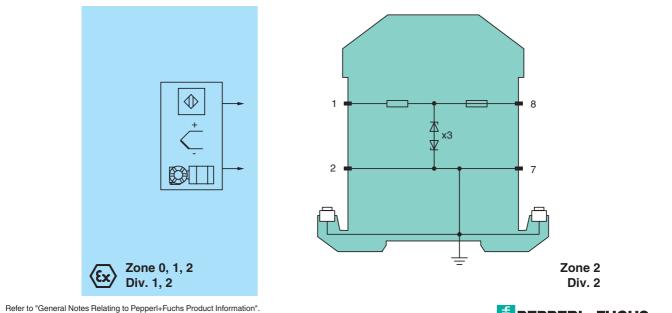
The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has alternating 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.



CE



Connection



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Electrical specifications Nominal resistance 1 Series resistance m Fuse rating 1 Hazardous area connection 1	AC version 100 Ω max. 107 Ω 100 mA terminals 1, 2
Electrical specifications Nominal resistance 1 Series resistance m Fuse rating 1 Hazardous area connection 1	100 Ω max. 107 Ω 100 mA
Nominal resistance1Series resistancemFuse rating1Hazardous area connection1	max. 107 Ω 100 mA
Series resistancemFuse rating1Hazardous area connection1	max. 107 Ω 100 mA
Fuse rating 1 Hazardous area connection	100 mA
Hazardous area connection	
	terminals 1, 2
Connection te	erminals 1, 2
Safe area connection	
Connection te	erminals 7, 8
Working voltage m	max. 13.6 V,13 V at 10 μA
Conformity	
Degree of protection IE	EC 60529
Ambient conditions	
Ambient temperature -2	-20 60 °C (-4 140 °F)
Storage temperature -2	-25 70 °C (-13 158 °F)
Relative humidity m	max. 75 % , without moisture condensation
Mechanical specifications	
Degree of protection IF	P20
	self-opening connection terminals, nax. core cross-section 2 x 2.5 mm ²
Mass a	approx. 150 g
	12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
	nodular terminal housing, see system description
	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection	U U U U U U U U U U U U U U U U U U U
with Ex-areas	
EC-Type Examination Certificate B	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 U _o 1	15 V
Current I _o 1	153 mA
Power Po 5	570 mW
Supply	
Maximum safe voltage U _m 2	250 V
Series resistance m	min. 98 Ω
Permissible connection values [EEx ia]	
Statement of conformity T	TÜV 99 ATEX 1484 X, observe statement of conformity
Group, category, type of protection, (Etemperature class	🐼 II 3G Ex nA IIC T4 Gc [device in zone 2]
Directive conformity	
Directive 94/9/EC E	EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010
International approvals	
FM approval	
Control drawing 1	116-0118
UL approval	
Control drawing 1	116-0139
CSA approval	
Control drawing 1	116-0119
-	ECEx BAS 09.0142
Approved for [E	Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information	
Supplementary information E	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- uchs.com.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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