

Features

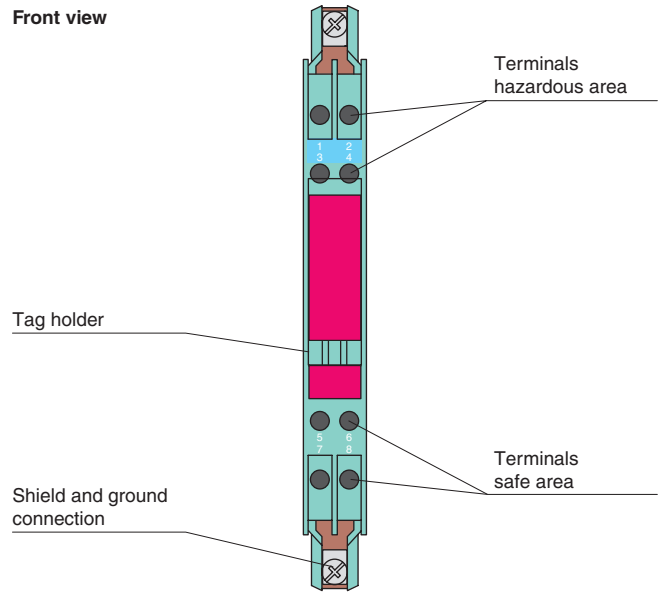
- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 μ A
- Series resistance max. 327 Ω
- Fuse rating 50 mA
- DIN rail mounting

Function

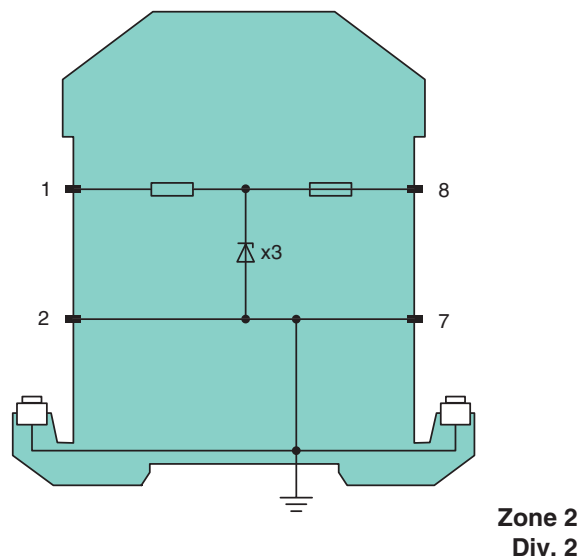
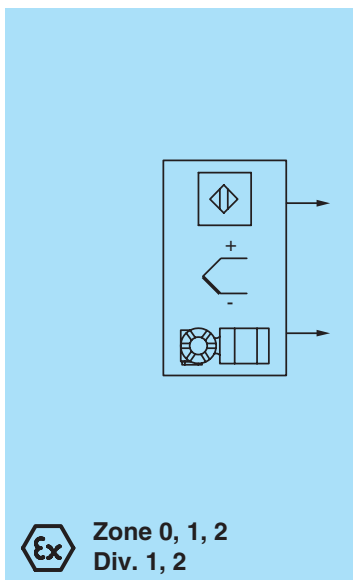
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 a positive polarity, i. e. the anodes of the zener diodes are grounded.

Assembly



Connection



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|---|--|--|
| General specifications | | |
| Type | DC version, positive polarity | |
| Electrical specifications | | |
| Nominal resistance | 300 Ω | |
| Series resistance | max. 327 Ω | |
| Fuse rating | 50 mA | |
| Hazardous area connection | | |
| Connection | terminals 1, 2 | |
| Safe area connection | | |
| Connection | terminals 7, 8 | |
| Rated voltage | 28 V | |
| Supply voltage | max. 28 V | |
| Working voltage | 26.5 V at 10 μA | |
| Conformity | | |
| Protection degree | IEC 60529 | |
| Ambient conditions | | |
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) | |
| Storage temperature | -25 ... 70 °C (-13 ... 158 °F) | |
| Relative humidity | max. 75 % , without moisture condensation | |
| Mechanical specifications | | |
| Protection degree | IP20 | |
| Connection | self-opening connection terminals, max. core cross-section 2 x 2.5 mm ² | |
| Mass | 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 DIN EN 60715 | |
| 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 U _o | 28 V | |
| Current I _o | 93 mA | |
| Power P _o | 650 mW | |
| Supply | | |
| Maximum safe voltage U _m | 250 V | |
| Series resistance | min. 301 Ω | |
| 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 60079-0:2009, EN 60079-11:2007, EN 61241-11:2006 , 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 | | |
| IECEX approval | IECEX 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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