

Features

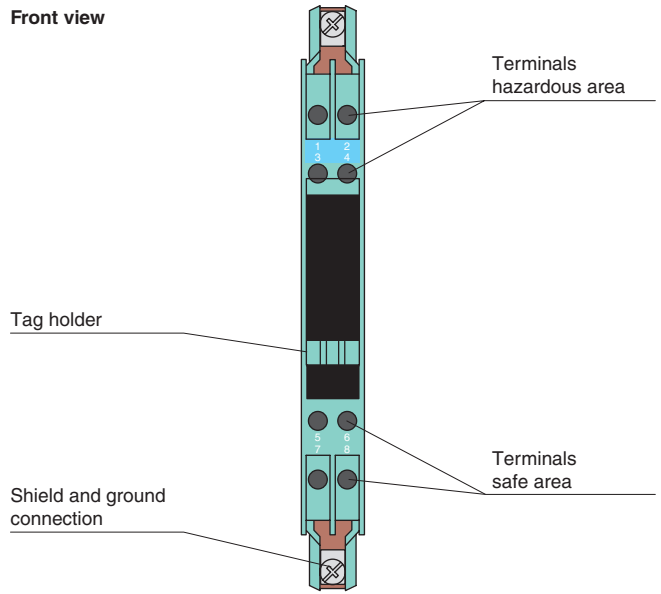
- 1-channel
- DC version, negative polarity
- Working voltage 26.5 V at 10 μ A
- Series resistance max. 342 Ω + 2 V
- Fuse rating 50 mA
- DIN rail mounting
- Current limiting

Function

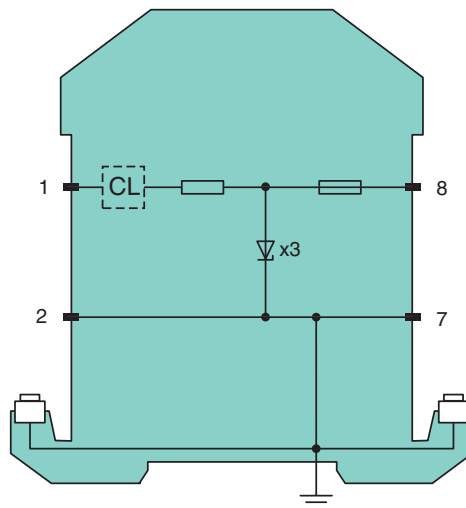
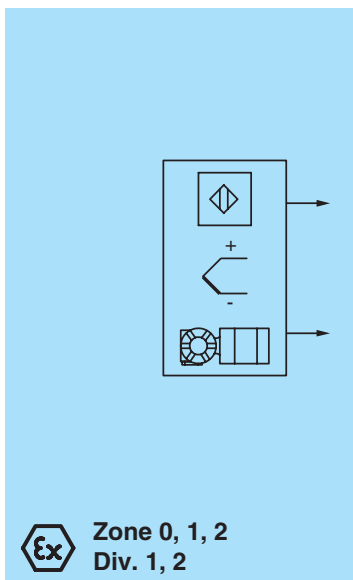
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 negative polarity, i. e. the cathodes of the zener diodes are grounded. The connection to the field circuit is equipped with a current limiting.

Assembly



Connection



Release date 2010-03-17 14:55 Date of issue 2010-03-17 071791_ENG.xml

General specifications	
Type	DC version, negative polarity
Electrical specifications	
Nominal resistance	300 Ω
Series resistance	max. 342 Ω +2 V
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	mounting on 35 mm DIN 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 [EEx ia] IIC (-20 °C ≤ T _{amb} ≤ 60 °C)
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 classification	⊕ II 3G EEx nA II T4 X
Directive conformity	
Directive 94/9/EC	EN 50014, EN 50020, EN 50021
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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