Features

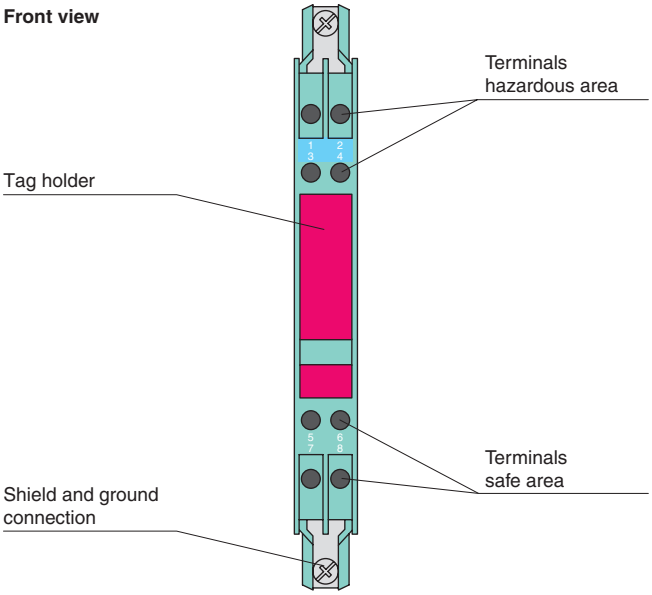
- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 µA
- Series resistance max. 327 Ω
- Fuse rating 50 mA
- DIN rail mounting

Function

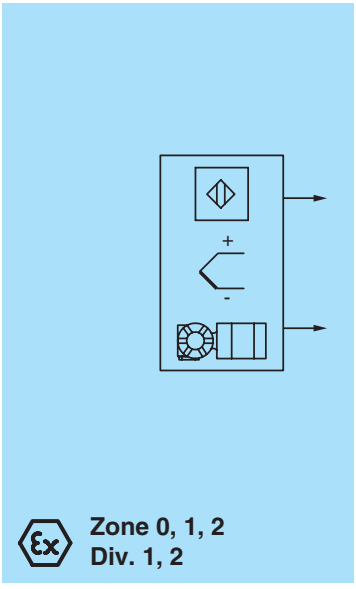
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

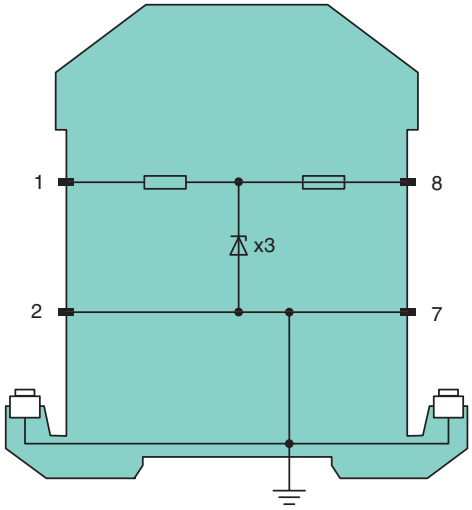
The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has a positive 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 (253 ... 333 K)
Storage temperature	-25 ... 70 °C (248 ... 343 K)
Relative humidity	max. 75 % , without moisture condensation
Mechanical specifications	
Protection degree	IP54
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 conjunction with hazardous areas	
EC-Type Examination Certificate	BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	⟨Ex⟩ 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	
Safety maximum 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	⟨Ex⟩ II 3G EEx nA II T4 X
Directive conformity	
Directive 94/9 EC	EN 50014, EN 50020, EN 50021
International approvals	
FM approval	
Control drawing	116-0118
UL approval	
Control drawing	116-0139
CSA approval	
Control drawing	116-0119
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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