Features

- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 273 Ω
- Fuse rating 50 mA
- · DIN rail mounting
- · High power version
- · Replaceable fuse

Function

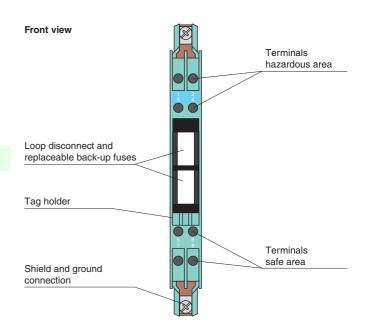
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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.

Additionally this Zener Barrier is equipped with a replaceable fuse. This high power version has a smaller serial resistance and therefore provides higher voltage to the field device.

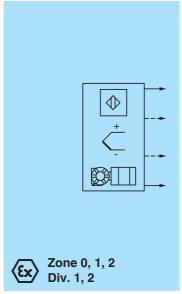
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

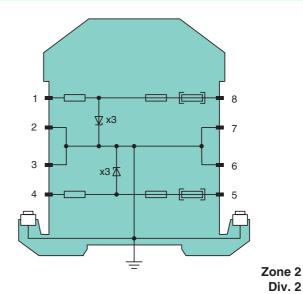
Assembly





Connection





Release date 2015-02-1915:19 Date of issue 2015-02-19 072206_eng.xml

General specifications		
Type		DC version, negative polarity
Electrical specifications		Do voicion, negative polarity
Nominal resistance		240 Ω
Series resistance		max. 273Ω
Fuse rating		50 mA
Hazardous area connection	n	JULIA
Connection		terminals 1 2 2 4
Safe area connection		terminals 1, 2, 3, 4
Connection		terminals 5 6 7 9
		terminals 5, 6, 7, 8
Working voltage		max. 27 V , 26.5 V at 10 μ A
Conformity Degree of protection		150 00500
Degree of protection		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		
Degree of protection		IP20
Connection		self-opening connection terminals, max. core cross-section $2 \times 2.5 \text{ mm}^2$
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 EN 60715:2001
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		BAS 00 ATEX 7096, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		(x) II (1)GD, I (M1) [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage U _o		28 V
Current	Io	120 mA
Power	Po	830 mW
Supply	-	
Maximum safe voltage	U _m	250 V
Series resistance		min. 235 Ω
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of protection, temperature class		(x) II 3G Ex nA II T4 [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		116-0355 (cULus)
CSA approval		
Control drawing		116-0119
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.pepperlfuchs.com.

