- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 341 Ω
- Fuse rating 50 mA
- · DIN rail mounting
- · Replaceable fuse
- · With diode return

Function

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

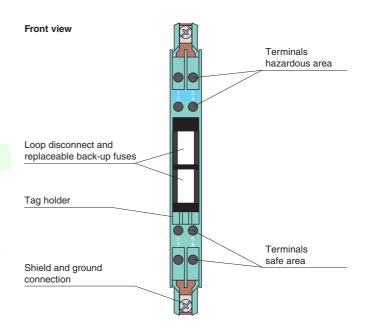
The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has a negative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

Additionally this Zener Barrier is equipped with a replaceable fuse.

The Zener Barrier is for evaluation of signals from the hazardous area. The diodes of diode return prevent a current into the hazardous area, therefore the current assumption for intrinsic safety calculations is zero.

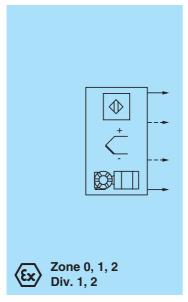
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

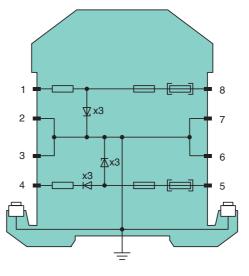
Assembly





Connection





Zone 2

Div. 2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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General specification	s	
Туре		DC version, negative polarity
Electrical specification	ons	
Nominal resistance		300 Ω
Series resistance		max. 341 Ω
Fuse rating		50 mA
Hazardous area conn	ection	
Connection		terminals 1, 2, 3, 4
Safe area connection		
Connection		terminals 5, 6, 7, 8
Working voltage		max. 27 V , 26.5 V at 10 μA
Conformity		
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 specifica	tions	
Degree of protection		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 Mounting		modular terminal housing , see system description on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		on 33 mm Dirk mounting fair acc. to Eik 607 13.2001
EC-Type Examination Certificate		BAS 00 ATEX 7096, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		$\langle x \rangle$ II (1)GD, I (M1) [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]
Voltage	U _o	28 V
Current	I _o	93 mA
Power	P _o	650 mW
Series resistance	. 0	min. 301 Ω
Statement of conformity		TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of protection, temperature class		(Ex) 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.pepperl-

