- 1-channel
- · DC version, positive 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 back-up fuse

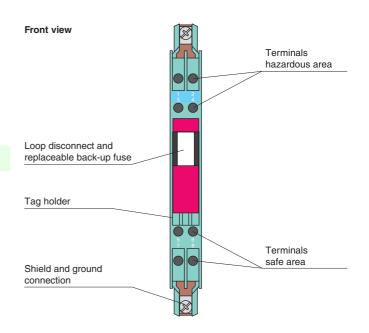
Function

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 positive polarity, i. e. the anodes 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.

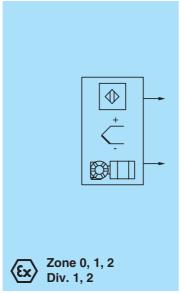
Assembly

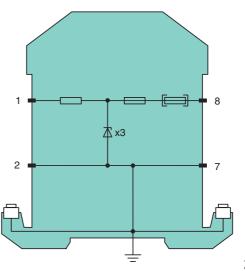






Connection





Zone 2 Div. 2

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

Release date 2020-01-08 08:49 Date of issue 2020-01-08 072175_eng.xml

General specifications		
Туре		DC version, positive polarity
Electrical specifications		
Nominal resistance		240 Ω
Series resistance		max. 273Ω
Fuse rating		50 mA
Hazardous area connection	n	
Connection		terminals 1, 2
Safe area connection		
Connection		terminals 7, 8
Working voltage		
Supply loop		≤ 26.9 V
Measurement loop		≤ 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 condensation
Mechanical specifications		
Degree of protection		IP20
Connection		screw terminals
Core cross-section		max. 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 inch)
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		on 33 min Diri mounting fair acc. to Eir 607 13.2001
with hazardous areas	nection	
EU-type examination certificate		BAS 00 ATEX 7096
Marking		\textcircled{x} II (1)GD, [Ex ia Ga] IIC, [Ex ia Da] IIIC, (-20 °C \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]
Voltage	Uo	28 V
Current	I _o	120 mA
Power	P _o	830 mW
Supply	' 0	OCC IIIV
Maximum safe voltage	U_{m}	250 V
Series resistance	Om	min. 235 Ω
Permissible connection values [EEx ia]		11111. 200 32
Certificate		TÜV 99 ATEX 1484 X
Marking		(x) II 3G Ex nA II T4 [device in zone 2]
•		I OO EXTINITY [UCCIOC III ZONG Z]
Directive conformity Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
		EN 000/3-0.2012+A11.2013, EN 000/3-11.2012, EN 000/3-13.2010
International approvals		
FM approval		116 0110
Control drawing		116-0118
UL approval		110 0055 (-111)
Control drawing		116-0355 (cULus)
IECEx approval		IECEX BAS 18.0033
Approved for		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

