Features

- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 646 Ω
- Fuse rating 50 mA
- · DIN rail mounting

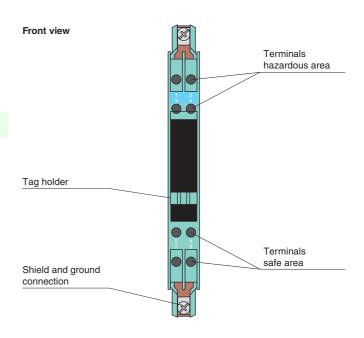
Function

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 negative polarity, i. e. the cathodes of the zener diodes are grounded.

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.

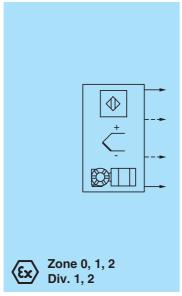
Assembly

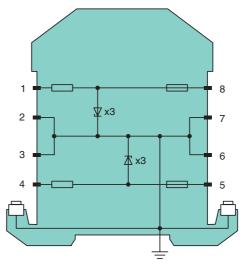






Connection





Zone 2 Div. 2

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

Release date 2018-04-09 08:47 Date of issue 2018-04-09 071805_eng.xml

Ξ
×
enc
05
18
0
60
04-0
8
9
S
Se.
<u>.</u> 6
6
ate
Δ
47
8
9
5-
Ģ
8
20
date
ė
as
용
Œ

General specifications		
Туре		DC version, negative polarity
Electrical specifications		, ,
Nominal resistance		600 Ω
Series resistance		≤ 646 Ω
Fuse rating		50 mA
Hazardous area connection		
Connection		terminals 1, 2; 3, 4
Safe area connection		terriniais 1, 2, 0, 4
Connection		terminals 5, 6; 7, 8
Working voltage		terrimais 3, 0, 1, 0
Supply loop		≤ 27 V
		≤ 26.5 V at 10 μA
Measurement loop		\$20.3 V at 10 μA
Conformity		IEC COECO
Degree of protection		IEC 60529
Ambient conditions		00 0000 (4 44005)
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 with hazardous areas		
EU-Type Examination Certific	cate	BAS 01 ATEX 7005
Marking		\textcircled{x} II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]
Voltage	U_o	28 V
Current	I _o	46 mA
Power	P _o	320 mW
Supply	. 0	
Maximum safe voltage	U _m	250 V
Series resistance	οm	min. 607Ω
Permissible connection values [EEx ia]		
Certificate		TÜV 99 ATEX 1484 X
		(Ex) II 3G Ex nA IIC T4 Gc [device in zone 2]
Marking Directive conformity		I OG EXTIN 110 14 GO [GEVICE III ZOTIE Z]
Directive conformity Directive 2014/34/EU		EN 60070-0:2012 (\11:2013 EN 60070 11:2012 EN 60070 15:2010
		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
International approvals		
FM approval		110 0110
Control drawing		116-0118
UL approval		440,0400
Control drawing		116-0139
CSA approval		
Control drawing		116-0119
IECEx approval		IECEX BAS 09.0142 IECEX BAS 17.0091X
Approved for		[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For