Assembly

• 2-channel

Features

- · DC version, positive polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 327 Ω
- Fuse rating 50 mA ٠
- · DIN rail mounting
- · With diode return

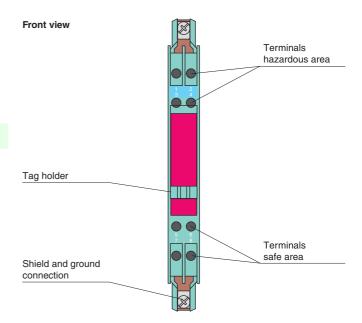
Function

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 positive polarity, i. e. the anodes of the zener diodes are grounded.

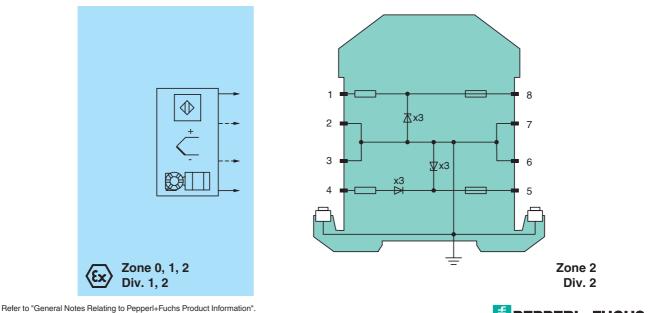
The Zener Barrier is for evaluation of signals from the hazardous area. The diodes of diode return prevent a current into the hazardous area, therefore the current assumption for intrinsic safety calculations is zero.

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.



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Connection



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Type Co Version, positive polarity Electrical specifications 300 Ω Sorial resistance 300 Ω Sorial resistance terminals 1 and 8: max. 327 Ω Voltage drop terminals 4 and 5: 12 V + (36 Ω x signal current) Fuse raing 50 mA Rear connection terminals 1, 2; 3, 4 Sofie area connection terminals 5, 6; 7, 8 Connection terminals 5, 6; 7, 8 Connection terminals 5, 6; 7, 8 Moving voltage max. 27 V, 28.5 V at 10 µA Connection terminals 5, 6; 7, 8 Moving voltage max. 27 V, 28.5 V at 10 µA Connection terminals 5, 6; 7, 8 Moving voltage max. 27 V, 28.5 V at 10 µA Connection terminals 5, 6; 7, 8 Ambient conditos terminals 1, 2; 3, 4 Ambient conditos terminals 1, 2; 3, 4 Connection terminals construction se coreas-ection 2 × 25, marce Ambient conditos terminals construction 2 × 25, marce Connection terminals construction 2 × 25, marce Connection se coreas-ection 2 × 25, marce terw terminals constru	Conevel encoifications		
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with Ex-areas BAS 01 ATEX 7005 EC-Type Examination Certificate BAS 01 ATEX 7005 Group, category, type of protection Go II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage Uo 28 V Current Io 93 mA Power Po 650 mW Supply 250 V Maximum safe voltage Um 250 V Series resistance min. 301 Ω Statement of conformity TÚV 99 ATEX 1484 X Group, category, type of protection, temperature class Gi II 3G Ex nA IIC T4 Gc [device in zone 2] Directive 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010 International approval EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010 International approval 116-0118 UL approval 116-0118 UL approval 116-0139 Control drawing 116-0119 IECEX approval IECEX BAS 09.0142	· · · · · ·		on 35 mm DIN mounting rail acc. to EN 60715:2001
Group, category, type of protection I II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage Uo 28 V Current Io 93 mA Power Po 650 mW Supply - 650 mW Supply - - Maximum safe voltage Um 250 V Series resistance min. 301 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class - Directive conformity EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010 International approvals - FM approval - Control drawing 116-0118 UL approval - Control drawing 116-0119 IECEx approval - Control drawing 116-0119	••		
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CurrentIo93 mAPowerPo650 mWSupply50 VMaximum safe voltageUm250 VSeries resistancemin. 301 ΩStatement of conformityTÜV 99 ATEX 1484 XGroup, category, type of protection, temperature class(s) II 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010International approvalsII 6-0118Control drawingII 16-0118UL approvalII 16-0118Control drawingII 16-0119IECEx approvalII 16-0119IECEx approvalII 16-0119	Group, category, type of protection		$\langle x \rangle$ 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]
Power Po 650 mW Supply	Voltage	Uo	28 V
Supply Identified Control of C	Current	Ι _ο	93 mA
Maximum safe voltage Um 250 V Series resistance min. 301 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class iii 3G Ex nA IIC T4 Gc [device in zone 2] Directive conformity iii 3G Ex nA IIC T4 Gc [device in zone 2] Directive conformity EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010 International approvals EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010 FM approval I16-0118 UL approval 116-0118 Ocntrol drawing 116-0139 CSA approval I16-0119 IECEx approval IECEx BAS 09.0142	Power	Po	650 mW
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Statement of conformityTÜV 99 ATEX 1484 XGroup, category, type of protection, temperature classII 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010International approvalsEN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010FM approvalI16-0118UL approvalI16-0118Control drawing116-0139CSA approvalI16-0119IECEx approvalII6-0119IECEx approvalIECEx BAS 09.0142	Maximum safe voltage	Um	250 V
Group, category, type of protection, temperature classIs 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010International approvalsEN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010FM approvalI16-0118Control drawing116-0118UL approvalI16-0139CSA approvalI16-0119IECEx approvalI16-0119IECEx approvalIECEx BAS 09.0142	Series resistance		min. 301 Ω
temperature classImage: Class of the second sec	Statement of conformity		TÜV 99 ATEX 1484 X
Directive 2014/34/EUEN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010International approvals	temperature class		⟨ II 3G Ex nA IIC T4 Gc [device in zone 2]
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Control drawing 116-0118 UL approval 116-0139 Control drawing 116-0139 CSA approval 116-0119 IECEx approval IECEx BAS 09.0142	International approvals		
UL approval I16-0139 CSA approval I16-0119 Control drawing I16-0119 IECEx approval IECEx BAS 09.0142	FM approval		
Control drawing 116-0139 CSA approval	-		116-0118
CSA approval 116-0119 IECEx approval IECEx BAS 09.0142	UL approval		
Control drawing 116-0119 IECEx approval IECEx BAS 09.0142	Control drawing		116-0139
IECEx approval IECEx BAS 09.0142	CSA approval		
	Control drawing		116-0119
Approved for [Ex ia Ga] IIC. [Ex ia Da] IIC. [Ex ia Ma] I	IECEx approval		IECEx BAS 09.0142
	Approved for		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
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-fuchs.com.	Supplementary information		Conformity and instructions have to be observed where applicable. For information see www.pepperl-

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