- 2-channel
- · DC version, positive polarity
- Working voltage 6 V at 1 μA
- Series resistance max. 2030.5 Ω
- · Fuse rating 80 mA
- · DIN rail mountable

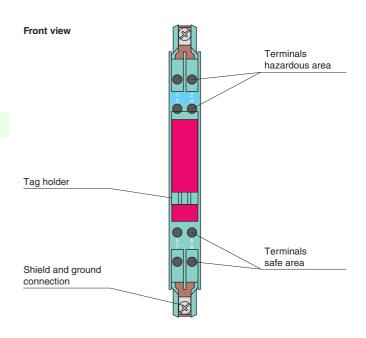
Function

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.

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.

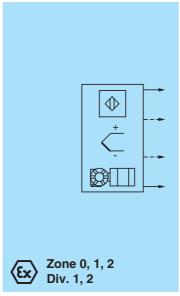
Assembly

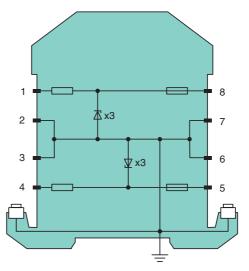






Connection





Zone 2 Div. 2

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

Pepperl+Fuchs Group

www.pepperl-fuchs.com

USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com

Type DC version, positive polarity Electrical specifications Nominal resistance 2009 Ω Series resistance max. 2030.5 Ω Fuse rating 80 mA Hazardous area connection Connection terminals 1, 2; 3, 4 Safe area connection Connection terminals 5, 6; 7, 8 Working voltage terminals 5, 6; 7, 8 Working voltage terminals 7, 8: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) terminals 7, 8: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) Transfer characteristics Deviation Influence of ambient temperature Conformity Degree of protection Storage temperature - 20 60 °C (4 140 °F) Storage temperature - 20 70 °C (13 158 °F) Relative humidity max. 75 %, without moisture condensation Mechanical specifications Degree of protection Begree of protection P20 Connection screw terminals , max. core cross-section 2 x 2.5 mm² 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 BAS 01 ATEX 7005 BAS 01 ATEX 7005 Supply Maximum safe voltage U _o terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage U _m Statement of conformity Group, category, type of protection, temperature class Directive conformity Directive 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010	General specifications		
Series resistance 2009 Ω max. 2030.5 Ω 80 mA	•		DC version, positive polarity
Nominal resistance 2009 Ω max. 2030.5 Ω Series resistance max. 2030.5 Ω Fuse rating 80 mA Hazardous area connection terminals 1, 2; 3, 4 Safe area connection terminals 5, 6; 7, 8 Working voltage terminals 5, 6; max. 7,5 V, 7 V at 10 µA (6 V at 1 µA) Transfer characteristics between 1 max. 0.05 Ω/K Deviation max. 0.05 Ω/K Conformity max. 0.05 Ω/K Degree of protection IEC 60529 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 IP20 Degree of protection IP20 Amass approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Deta for application in connection with Ex-areas BAS 01 ATEX 7005 EC-Type Examination Certificate BAS 01 Ex ta Gall IR. II (1)D [Ex ia Dai] IIIC. II (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) Terminals 1, 2: 9.4 mW/terminals 3, 4: 9.4			
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Working voltage terminals 5, 6: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) terminals 7, 8: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) Transfer characteristics Deviation Influence of ambient temperature Conformity Degree of protection Ambient conditions Ambient emperature -20 60 °C (-4 140 °F) Storage temperature -25 70 °C (-13 158 °F) Relative humidity Max. 75 ° κ, without moisture condensation Mechanical specifications Degree of protection EP20 Connection IP20 Sorew terminals , max. core cross-section 2 x 2.5 mm² Approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) 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 EC-Type Examination Certificate Group, category, type of protection Voltage U ₀ Current I ₀ Current I ₀ Raximum safe voltage U _m Maximum safe voltage U _m Series resistance Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature Elevation Fransfer characteristics Each 10 μA (6 V at 1 μA) Erminals 5, 8: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) Example (A V at 1 μA)			terminals 5, 6: 7, 8
terminals 7, 8: max. 7.5 V, 7 V at 10 μA (6 V at 1 μA) Transfer characteristics Deviation Influence of ambient temperature Conformity Degree of protection 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 Connection Mass approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Construction type mounting Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Voltage U ₀ Current U ₀ Current U ₀ Current U ₀ Current Voltage U ₀ Supply Maximum safe voltage U _m Supply Maximum safe voltage U _m Steptement 2.2 Verminals 3, 4: 9.4 mW Foreiar resistance Statement of conformity Directive conformity			
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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 Connection Mass approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Construction type Mounting Data for application in connection with Ex-areas Group, category, type of protection Voltage U₀ Current I₀ Power P₀ Supply Maximum safe voltage Maximum safe voltage Maximum safe voltage U₀ Statement of conformity Maximum safe voltage Directive conformity TÜV 99 ATEX 1484 X ⑤ Ill 3G Ex nA IIC T4 Gc [device in zone 2]	·		
Ambient temperature Storage temperature -25 70 °C (-13 158 °F) Relative humidity max. 75 % , without moisture condensation Mechanical specifications Degree of protection Connection Mass approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Construction type Mounting Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Voltage U₀ Current U₀ Current U₀ Power P₀ Series resistance Statement of conformity Maximum safe voltage Um Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity	Degree of protection		IEC 60529
Storage temperature Relative humidity Mechanical specifications Degree of protection Connection Mass Dimensions Construction type Mounting Data for application in connection with Exareas EC-Type Examination Certificate Group, category, type of protection Voltage U Current I Current I Current I Current I Current P Current P Current P Current P Current Supply Maximum safe voltage Maximum safe voltage W Maximum safe voltage U Current Supply Maximum safe voltage Seriess resistance Size in T0 ° C (-13 158 °F) max. 75 ° C, without moisture condensation Max. 75 %, without moisture condensation Max. 25 70 °C (-13 158 °F) max. 75 ° C, without moisture condensation Max. 55 °, without moisture condensation P20 Series resistance TÜV 99 ATEX 1484 X (★ II 3G Ex nA IIC T4 Gc [device in zone 2] TÜV 99 ATEX 1484 X (★ II 3G Ex nA IIC T4 Gc [device in zone 2]	Ambient conditions		
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Degree of protection Connection Screw terminals , max. core cross-section 2 x 2.5 mm² approx. 150 g Dimensions 12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Construction type Mounting Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Voltage U₀ Current I₀ Current Power P₀ Supply Maximum safe voltage Um Series resistance Size the form of the first series is the form of conformity Group, category, type of protection, temperature class Directive conformity IP20 Series resistance Size we terminals , max. core cross-section 2 x 2.5 mm² spreading approx. 150 g paper (0.5 x 4.5 x 4.3 in) Mounting Double (0.5 x 4.5 x 4.3 in) Mounting (0.5 x 4.5 x 4.3 in) Mounting rail acc. to EN 60715:2001 BAS 01 ATEX 7005 Sign I (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) Voltage U₀ terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V terminals 1, 2: 8.61 V / terminals 3, 4: 4.4 mA Power P₀ Tive ye ATEX 1484 X Sign I 3G Ex nA IIC T4 Gc [device in zone 2]			max. 75 %, without moisture condensation
Connection screw terminals , max. core cross-section $2 \times 2.5 \text{ mm}^2$ Mass approx. 150 g Dimensions $12.5 \times 115 \times 110 \text{ mm} (0.5 \times 4.5 \times 4.3 \text{ in})$ Construction type 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 EC-Type Examination Certificate BAS 01 ATEX 7005 Group, category, type of protection $0.00000000000000000000000000000000000$	·		
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 BAS 01 ATEX 7005 EC-Type Examination Certificate BAS 01 ATEX 7005 Group, category, type of protection Il (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) Voltage Uo terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V Current Io terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA Power Po terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X (x) II 3G Ex nA IIC T4 Gc [device in zone 2] Directive conformity II 3G Ex nA IIC T4 Gc [device in zone 2]	•		IP20
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Construction type 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 EC-Type Examination Certificate BAS 01 ATEX 7005 Group, category, type of protection Voltage Uo terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V / terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA / terminals 3, 4: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um Series resistance Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity Tire on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 01 ATEX 7005 ($\textcircled{*}$) II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C \leq T _{amb} \leq 60 °C) terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply $\textcircled{*}$ Supply $\textcircled{*}$ Size of protection, temperature class Directive conformity	Mass		approx. 150 g
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 01 ATEX 7005 Group, category, type of protection (a) II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) Voltage Uo terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V Current Io terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA Power Po terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class \(\begin{align*}	Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
Data for application in connection with Ex-areasEC-Type Examination CertificateBAS 01 ATEX 7005Group, category, type of protection $\langle x \rangle$ II (1)G [Ex ia Ga] IIIC, I (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T_{amb} ≤ 60 °C)Voltage U_0 terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 VCurrent I_0 terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mAPower P_0 terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mWSupplyMaximum safe voltage U_m 250 VSeries resistancemin. 1957 Ω Statement of conformityTÜV 99 ATEX 1484 XGroup, category, type of protection, temperature class $\langle x \rangle$ II 3G Ex nA IIC T4 Gc [device in zone 2]	Construction type		modular terminal housing, see system description
with Ex-areas EC-Type Examination Certificate Group, category, type of protection Voltage Uo terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V Current Power Po terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um Series resistance Statement of conformity Group, category, type of protection, temperature class Directive conformity BAS 01 ATEX 7005 BAS 01 ATEX 7005 BAS 01 ATEX 7005 (★) II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V terminals 3, 4: 4.4 mA terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um 250 V Series resistance Statement of conformity TÜV 99 ATEX 1484 X (★) II 3G Ex nA IIC T4 Gc [device in zone 2]	Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Group, category, type of protection \Leftrightarrow II (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C \leq T _{amb} \leq 60 °C) Voltage U _o terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V Current I _o terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA Power P _o terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage U _m 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity			
Voltage U _o terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V Current I _o terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA Power P _o terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage U _m 250 V Series resistance min. 1957 Ω Statement of conformity Group, category, type of protection, temperature class Directive conformity TÜV 99 ATEX 1484 X (x) II 3G Ex nA IIC T4 Gc [device in zone 2]	EC-Type Examination Certificate		BAS 01 ATEX 7005
Current I _o terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA Power P _o terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage U _m 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA TÜV 99.4 mW / terminals 3, 4: 4.4 mA TÜV 99.4 mW / terminals 3, 4: 4.4 mA TÜV 99.4 mW / terminals 3, 4: 4.4 mA TÜV 99.4 mW / terminals 3, 4: 4.4 mA TÜV 99.4 mW / terminals 3, 4: 4.4 mA	Group, category, type of protection		(x) II (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C)
Power Po terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity TÜV 99 ATEX 1484 X Examples II 3G Ex nA IIC T4 Gc [device in zone 2]	Voltage	U_{o}	terminals 1, 2: 8.61 V / terminals 3, 4: 8.61 V
Power Po terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW Supply Maximum safe voltage Um 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW TÜV 99 ATEX 1484 X (x) II 3G Ex nA IIC T4 Gc [device in zone 2]	Current		terminals 1, 2: 4.4 mA / terminals 3, 4: 4.4 mA
Supply Maximum safe voltage U _m 250 V Series resistance min. 1957 Ω Statement of conformity TÜV 99 ATEX 1484 X Group, category, type of protection, temperature class Directive conformity	Power		terminals 1, 2: 9.4 mW / terminals 3, 4: 9.4 mW
Series resistance min. 1957 Ω Statement of conformity Group, category, type of protection, temperature class Directive conformity min. 1957 Ω TÜV 99 ATEX 1484 X (x) II 3G Ex nA IIC T4 Gc [device in zone 2]	Supply		
Series resistance min. 1957 Ω Statement of conformity Group, category, type of protection, temperature class Directive conformity min. 1957 Ω TÜV 99 ATEX 1484 X (x) II 3G Ex nA IIC T4 Gc [device in zone 2]		U _m	250 V
Group, category, type of protection, temperature class Directive conformity Group, category, type of protection, temperature class	Series resistance		min. 1957 Ω
temperature class Directive conformity	Statement of conformity		TÜV 99 ATEX 1484 X
·			(x) II 3G Ex nA IIC T4 Gc [device in zone 2]
·	Directive conformity		
	Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
General information	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.pepperfuchs.com.	Supplementary information		Conformity and instructions have to be observed where applicable. For information see www.pepperl-

