## Assembly

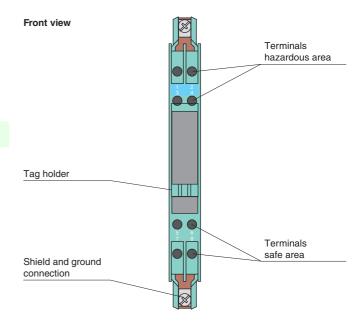
- Features
- 2-channel
- AC version
- Working voltage 15 V at 10  $\mu A$
- Series resistance max. 136  $\Omega$
- · Fuse rating 50 mA
- · DIN rail mounting
- Star connection

## Function

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

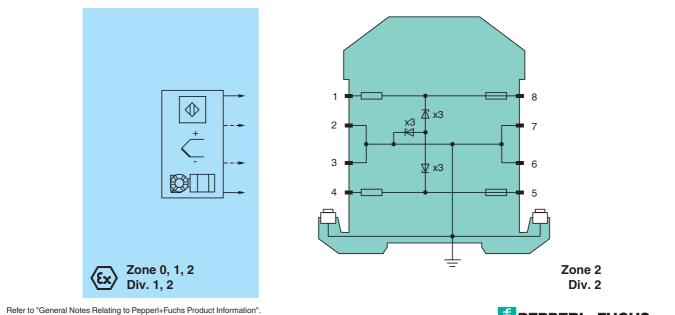
The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has alternating polarities, i. e. interconnected zener diodes are employed and one side is grounded. The Zener Barrier can be used for both alternating voltage signals and direct voltage signals.

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.





## Connection



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General appeofications     AC version       Electrical specifications     120 J       Normal residence     120 J       Series residence     res. 136 J       Connection     Son A       Connection     terminals 1, 2, 3, 4       Safe ac connection     terminals 1, 2, 3, 4       Connection     terminals 5, 6, 7, 8       Voiding voltage     max. 158 V, 15V val 10 JA       Connection     terminals 5, 6, 7, 8       Opgree of protection     terminals 5, 6, 7, 8       Digree of protection     terminals 7, 5%, without motisture contentation       Mechanical specifications     rea. 7, 6%, without motisture contentation       Digree of protection     terminal housing, see system discription       Digree of protection     terminal housing, see system discription       Distage U_0     ta3 x 11 x 11 torm (0, 5 x 4, 5 x 4, 3 in)       Conservice     ta3 x 11 x 11 torm (0, 5 x 4, 5 x 4, 3 in)       Conservice     ta3 x 11 x 11 torm (0, 5 x 4, 5 x 4, 3 in)       Cons		
Energial appellications     I20 A       Nominal resistance     I20 A       Softer resistance     max. 136 A       Fase rating     So nA       Ever rating decompetition     terminals 1, 2; 3, 4       Softer are connection     terminals 5, 6; 7, 8       Connection connection     terminals 5, 6; 7, 8       Connection connection     terminals 5, 6; 7, 8       Order order order to the connection     terminals 5, 6; 7, 8       Connection connection     terminals 5, 6; 7, 8       Order order to the connection     terminals 5, 6; 7, 8       Order order to the connection     terminals 5, 6; 7, 8       Order order to the connection     terminals 5, 6; 7, 8       Ambient temporature     -2060 °C (4,10 °F)       Storage temporature     -2060 °C (4,10 °F)       Degree of protection     tel &       Mechanical specifications     eall cogning connection torminals. max. 25 %, without monture contensation       Mechanical specifications     eall cogning connection torminals. max. Core creas-section 2, 25 m <sup>2</sup> Dimensions     12 & x115 x 110 mm (0, 5 x4.5 x4.3 win)       Construction type     modulat errorminal bousing, asee system description	General specifications	
Nominal resistance     120.1       Series resistance     max.160.0       Fuse rating     S0 mA       Hazar donaction     terminals 1, 2; 3, 4       Connection     To minals 5, 6; 7, 8       Series centration     terminals 1, 2; 3, 4       Connection     To minals 5, 6; 7, 8       Working voltage     terminals 5, 6; 7, 8       Connection     To Connection       Connection     terminals 5, 6; 7, 8       Motint propertion     To Connection       Connection     terminals 5, 6; 7, 8       Motint terminals for 7, 8     To Connection       Series centration     terminals 5, 6; 7, 8       Anbient temporature     -2060 °C (-4140 °F)       Stration of protection     126158 °F)       Belative humidition     terminals reprotection       Degree of protection     IP20       Connection     125158 °F)       Degree of protection     IP20       Degree of protection     IP20       Degree of protection     IP20		AC version
Series resistance     max 136 Ω       Fues raing     50 mÅ       Fues raing     50 mÅ       Hazardous area connection     terminals 1, 2; 3, 4       Connection     terminals 5, 6; 7, 8       Varking voltage     max 156 V, 15 V at 10 µÅ       Connection     terminals 5, 6; 7, 8       Varking voltage     max 156 V, 15 V at 10 µÅ       Connection     terminals 5, 6; 7, 8       Ambient conditions     max 156 V, 15 V at 10 µÅ       Connection     tel 6 60529       Ambient conditions     -       Ambient conditions     -       Storage temperature     -25. 70° ( 13 158 ° T)       Rechanics algectifications     -       Degree of protection     P20       Connection     self-opening connection traminals, max, core orres-section 2.4.5 mm <sup>2</sup> Mass     approx. 150 g       Dimensions     12.5.118 x 10 mm (0.5 x 4.5 x 4.3 in)       Connection     self-opening connection avection starminals, max, core orres-section 2.4.5 mm <sup>2</sup> Voltage     U <sub>0</sub> 16.8 V 167E X 005, for additional certificates see www.pepperf-4uchs.com       Grorup. ctapporty ber optoreticon     Self NTEX 7005, f		
<form>Fuse range50 mAHazardous area connectionemrinals 1,2; 3, 4Connectionterminals 5,6; 7, 8Connectionterminals 5,6; 7, 8Working voltagetots/15 V at 10 JAContornitontots/15 V at 10 JAContornitontots/15 V at 10 JAContornitontots/15 V at 10 JAContornitontots/15 V at 10 JAPagee of protectiontots/15 V at 10 JAMainet temperature0.0.00 °C ( 4 100 °F)Storage temperature20 00 °C ( 4 100 °F)Storage temperature20 00 °C ( 4 100 °F)Degree of protectionmax 75%, whout noisture condensationMachardial specificationsF20Degree of protectionF20Connection12.5 x 115 0 mm (0.5 x 4.5 x 4.3 im)Connection12.5 x 115 0 mm (0.5 x 4.5 x 4.3 im)Construction typeos 35 mm DIN mounting rait acc. to EN descriptionMaxima construction control0.5 S mm DIN mounting rait acc. to EN descriptionConstruction type0.0 Mill (13.01 MII) (15.ki a Gall IC, [Exi a Ma] I (20 °C ± T<sub>ame</sub> ≤ 0 °C) (circuit () in zono 01/2Construction type0.0 Mill (13.01 MII) (15.ki a Gall IC, [Exi a Ma] I (20 °C ± T<sub>ame</sub> ≤ 0 °C) (circuit () in zono 01/2Construction type0.0 Mill (13.01 MII) (15.ki a Gall IC, [Exi a Ma] I (20 °C ± T<sub>ame</sub> ≤ 0 °C) (circuit () in zono 01/2Control movi10.1 Y 0.1 MII (13.ki a Gall IC, [Exi a Ma] I (20 °C ± T<sub>ame</sub> ≤ 0 °C) (circuit () in zono 01/2Control movi10.1 Y 0.1 MII (15.ki a Gall IC, [Exi a Ma] I (20 °C ± T<sub>ame</sub> ≤ 0 °C) (circuit () in zono 01/2Prover Po&lt;</form>	Nominal resistance	120 Ω
Hazardour area connection     terminals 1, 2; 3, 4       Connection     terminals 1, 2; 3, 4       Safe area connection     terminals 5, 6; 7, 8       Working voltage     max. 15, 8, 15, 10 µA       Connection     terminals 5, 6; 7, 8       Working voltage     max. 15, 8, 10 µA       Connection     terminals 6, 6; 7, 8       Degree of protection     terminals 0, 2; 3, 40 µA       Connection     terminals 0, 2; 3, 70 °C (13,158 °F)       Relative humidity     max. 75 %, without moisture condensation       Mechanical specifications     terminals 0, 2; 2, 50 °C (13,158 °F)       Relative humidity     max. 75 %, without moisture condensation       Mechanical specifications     terminals 0, 2; 2, 50 °C (13,159 °C)       Onnection     terminals 0, 2; 2, 50 °C (13,159 °C)       Dimensions     12, 5x 115 × 110 mm (0, 5x 4, 5x 43 in)       Construction type     modular terminal housing, see system description       Mounting     on 35 mm (10, 100 M) [Ex is Ga] IIC, [Ex is Ma] I (20 °C ≤ T <sub>maxb</sub> 60 °C) [circuit(s) in zone 0/1/2]       Votage     U <sub>0</sub> Group, categor, type of protection     Gal IIC, [Ex is Da] I	Series resistance	max. 136 Ω
Connection     terminals 1, 2, 3, 4       Safe are connection     terminals 5, 6, 7, 8       Connection     terminals 5, 6, 7, 8       Working voltage     max 15, 6V, 15V at 10 µA       Connection     terminals 5, 6, 7, 8       Molent conditions     terminals 5, 6, 7, 15V at 10 µA       Connection     teC 60529       Ambient temperature     2060 °C (4140 °F)       Storage tomporature     2570 °C (13183 °F)       Relative humiting     max. 75.8, without moisture condensation       Degree of protection     IP20       Connection     approx. 150 g       Dimensions     12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Construction type     modular terminal husing, we serviset description       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 husing, we serviset description       Moting     on 35 mm DIN mounting ral acc. to 160 for (5.2001       Workage     U/o     16.8 V       Construction type     Go 00 mW     Go 00 mW       Courtert     in 43 mA     OconeCione zone 2]       Pov	Fuse rating	50 mA
Safe area connection     Interninals 5, 6, 7, 8       Connection     Herminals 5, 6, 7, 8       Working voltage     max. 15, 6, 7, 8       Ordine of protection     HE 60529       Ambient conditions     -       Ambient conditions     -       Storage tomporture     -2060 °C (4 140 °F)       Storage tomporture     -2060 °C (4 140 °F)       Storage tomporture     -2570 °C (-13 158 °F)       Relative humidity     max. 75 %, without moisture condensation       Mechanical apportation     IP20       Connection     IP20       Dimensions     12.5 x 15.1 0 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     IP20       Dimensions     12.5 x 15.1 10 mm (0.5 x 4.5 x 4.3 in)       Contraction type     modular terminal housing, see system description       Mounting     on 35 mm DIN mounting rail acc. to EN 60715/2001       Date for application in connection     HS 01 ATEX 7005, for additional conflicates see www.pepperf-fuchs.com       Group, category, type of protection     43 mA       Powor     Po       Soupply     143 mA       Prowesible connection values [EEx ia] <t< td=""><td>Hazardous area connection</td><td></td></t<>	Hazardous area connection	
Connection terminals 5, 6, 7, 8   Working voltage max. 15.6 V, 15 Val 10 µA   Conformity E   Degree of protection EC 60529   Ambient conditions =   Ambient conditions =   Editive humidity max. 75 %, without moisture condensation   Mechanical specifications E2060 °C (-1 158 °F)   Degree of protection IP20   Connection self-opening connection terminals, reactions 25 mm <sup>2</sup> Dimensions approx. 150 g   Dimensions 2.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)   Construction type modular terminal housing, see system description   Mass approx. 150 g   Dimensions 0.35 nm DIN mouting ral acc. to EN 60715.2001   State for application in connection See System description   Maximum ada voltage U_a   Group, category, type of protection Se I (140E), (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex i	Connection	terminals 1, 2; 3, 4
Working voltage     max. 15.6 V, 15 V at 10 µA       Conformity     IEC 60529       Ambient equations     EC 60529       Ambient equations	Safe area connection	
Contomity     IEC 60529       Ambient conditos=     EC 60529       Ambient conditos=     -2060°C (4140°F)       Storage tomperature     -2060°C (4140°F)       Degree of protection     max. 75 %, without moisture condensation       Mechanical specifications     IE20       Degree of protection     IE20       Connection     self-opening connection terminals, max. 75 %, without moisture condensation       Mass     self-opening connection terminals, max. 75 %, without moisture condensation       Mass     self-opening connection terminals, max. 75 %, without moisture condensation       Mass     seprox. 150 g       Dimensions     12.5 x 115 x 110 mt (0.5 x 4.5 x 4.3 in)       Construction type     modulater terminal housing, see system description       Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       Potte for application in connection     BAS 01 ATEX 7005, for additional certificates see www.pepperf-fuchs.com       Group, category, type of protection     ()     (13.6 W       Valage     U <sub>o</sub> 16.8 V       Current U <sub>o</sub> 16.8 V     No       Series resistance     min. 17 Ω       Protection V <sub>o</sub> EN 6079-0	Connection	terminals 5, 6; 7, 8
Degree of protection     IEC 60529       Ambient emperature     -20 60 °C (4 140 °F)       Storage temperature     -25 70 °C (13 158 °F)       Belative humbity     max. 75 %, without moisture condensation       Mechanical specifications     IP20       Connection     self-opening connection terminals, max. core cross-section 2 × 2.5 mm <sup>2</sup> Mass     approx. 150 g       Dimensions     12.5 × 115 × 110 mm (0.5 × 4.5 × 4.3 im)       Construction type     modular terminal housing, asea system description       Mounting     on 35 mm DIN mounting rail acc. to EN 60715.2001       Data for application in connection     Gol (1)(Dol 1 (MI) [Ex ia Ga] IIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U <sub>o</sub> 18.8 V       Current     I <sub>o</sub> BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     Gol (1)(Dol 1 (MI) [Ex ia Ga] IIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U <sub>o</sub> 18.8 V       Current     I <sub>o</sub> 60 ON W       Septory     Fo     60 ON W       Septory     Fo     60 ON W       Septory ector	Working voltage	max. 15.6 V , 15 V at 10 $\mu\text{A}$
Ambient concluitions     Ambient temperature     2060 °C (4140 °F)       Ambient temperature     2570 °C (-13158 °F)       Relative humidity     max. 75 %, without moisture condensation       Mechanical specifications     IP20       Connection     IP20       Connection     IP20       Connection     IP20       Dimensions     approx. 150 g       Dimensions (Construction type     modular terminal housing, see system description       Mouting     on 35 mm DIM mounting rail acc. to EN 60715.2001       Data for application in connection     Go in 100.1 (LM1) (LM1) (Ex is Gal IIC, [Ex is Dal IIIC, [Ex is Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) (circuit(s) in zone 0/1/2]       Votage     U <sub>0</sub> 143 mA       Powor     P <sub>0</sub> 600 mW       Supply     in .117 Ω       Permissible concection values [Ex ia]     Go in .117 Ω       Permissible concection values [Ex ia]     Gi ii .116 .0118       Satement of conformity     TUV 99 ATEX 1484 X, observe statement of conformity       Group, category, top of protection representation contro motion     Gi ii .117 Ω       Permissible concection values [Ex ia]     II :80 GO :90 ·90 ·11 :2012, EN 60079 ·11:2012, EN 60079 ·15:2010	Conformity	
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   Connection sell-opening connection terminals, max. core cross-section 2 x.2.5 mm <sup>2</sup> Masis 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 terminals, max. core cross-section 2 x.2.5 mm <sup>2</sup> EC-Type Examination Certificate BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com   Corrent 10   Group, category, type of protection (2) II (16D, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C < T <sub>amb</sub> < 60 °C) [circuit(s) in zone 01/2]	Degree of protection	IEC 60529
Storage temperature     -2570 °C (-13158 °F)       Relative humidity     max. 75 %, without moisture condensation       Mechanical specifications     IP20       Connection     IP20       Connection     IP20       Mass     approx. 150 g       Dimensions     12.5.115 x 110 mm (0.5 x 4.5 x 4.3 in)       Construction type     modular terminal housing , see system description       Mounting     on 35 mDI mounting rail acc. to EN 60715:201       Dist for application in commetion     GS 0.1 MTEX 7005 , for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     GS 01 MTEX 7005 , for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     GS 01 MTEX 7005 , for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     GS 01 WI       Voltage     U <sub>0</sub> 16.8 V     Storament of conformity       Supply     ISO V       Maximum safe voltage     U <sub>0</sub> Group, category, type of protection     FO 400742 (Ex ta 48.4 , observe statement of conformity       Group, category, type of protection     FO 400742 (Ex ta 48.4 , observe statement of conformity       Group category, type	Ambient conditions	
Relative humidity     max. 75 %, without moisture condensation       Machanical specifications     IP20       Connection     IP20       Connection     self-opening connection terminals, max. core cross-section 2 x 2.5 mm <sup>2</sup> 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 ral acc. to EN 60715:2001       Data for application in convectors     Self-opening acc. to EN 60715:2001       Construction type     modular terminal housing, see system description       Mounting     on 35 mm DIN mounting ral acc. to EN 60715:2001       Data for application in convector     Self (1) (M1) [Exia Ga] IIC, [Exia Ma] I (20 °C ≤ T <sub>amb</sub> ≤ 60 °C) (circuit(s) in zone 017/2]       Voltage     0 <sub>0</sub> 16.8 V       Current     I <sub>0</sub> 143 mA       Power     P <sub>0</sub> 600 mW       Supply     TÜ 9 ATEX 1484 X, observe statement of conformity     Si 17 Si	Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications     IP20       Degree of protection     IP20       Connection     self-opening connection terminals, max. core cross-section 2 x.2.5 mm <sup>2</sup> Mass     aprox. 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 DIM mounting rail acc. to EN 60715:2001       Data for application in connection     Sex 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Connection     Sex 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 11 x 120 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 11 x 120 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 11 x 120 mm (0.5 x 4.5 x 4.3 in)       Connection in connection     Sex 11 (1.10G.1 (M1) (Ex ia Ga) IIC, (Ex ia Ga) IIC, (Ex ia Ma) 1 (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) (circuit(s) in zone 0/1/2]       Valage     U <sub>0</sub> 14 a MA       Power     P <sub>0</sub> 50 V       Statement of confor	Storage temperature	-25 70 °C (-13 158 °F)
Degree of protection     IP20       Connection     self-opening consection terminals, max.core cross-section 2 x 2.5 mm <sup>2</sup> Mass     approx.150 g       Dimensions     12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Construction type     condultar terminal housing, see system description       Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       Data for application in correction with Ex-area     BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     @ NI (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Ma] I (.20 ° C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U_o     16.8 V       Current     I_o     16.8 V       Supply     oor MW     Solo MW       Supply     oor MW     Solo W       Statement of conformity     T_O     Solo MW       Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity     @ II 3G Ex nA IIC T4 Gc [device in zone 2]       Proceive eviderwith approval     II 6-0139     II 6-0139       Control drawing     II 6-0139     II 6-0139       Control drawing     II 6-0139     II 6-0149       Control drawing     II 6-0139	Relative humidity	max. 75 %, without moisture condensation
Degree of protection     IP20       Connection     self-opening consection terminals, max.core cross-section 2 x 2.5 mm <sup>2</sup> Mass     approx.150 g       Dimensions     12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)       Construction type     condultar terminal housing, see system description       Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       Data for application in correction with Ex-area     BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     @ NI (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Ma] I (.20 ° C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U_o     16.8 V       Current     I_o     16.8 V       Supply     oor MW     Solo MW       Supply     oor MW     Solo W       Statement of conformity     T_O     Solo MW       Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity     @ II 3G Ex nA IIC T4 Gc [device in zone 2]       Proceive eviderwith approval     II 6-0139     II 6-0139       Control drawing     II 6-0139     II 6-0139       Control drawing     II 6-0139     II 6-0149       Control drawing     II 6-0139	Mechanical specifications	
max. core cross-section 2 x 2.5 mm <sup>2</sup> Mass     approx. 150 g       Dimensions     L2 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       Pata for application in correction     So 1 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of proteon     Sol 1 (1)(10, 1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] 1 (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/12]       Voltage     U <sub>0</sub> 16.8 V       Current     I <sub>0</sub> 600 mW       Power     Po     600 mW       Supply     min. 177 Ω       Permissible connection values [Ex ia]     Sol X       Group, category, type of protection     Sol I SG Ex nA IIC 74 G (device in zone 2]       Maximum safe voltage values [Ex ia]     File Seration (Goroformity)       Group, category, type of protections     Sol I SG Ex nA IIC 74 G (device in zone 2]       Intervetor of orderity     Sol I SG Ex nA IIC 74 G (device in zone 2]       Directive sol 4/9/EC     Isolor39-(12, EN 60079-15:2010       Intervetor approval     16-0118       U_1 approval     16-0139	Degree of protection	IP20
max. core cross-section 2 x 2.5 mm <sup>2</sup> Mass     approx. 150 g       Dimensions     L2 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       Pata for application in correction     So 1 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of proteon     Sol 1 (1)(10, 1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] 1 (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/12]       Voltage     U <sub>0</sub> 16.8 V       Current     I <sub>0</sub> 600 mW       Power     Po     600 mW       Supply     min. 177 Ω       Permissible connection values [Ex ia]     Sol X       Group, category, type of protection     Sol I SG Ex nA IIC 74 G (device in zone 2]       Maximum safe voltage values [Ex ia]     File Seration (Goroformity)       Group, category, type of protections     Sol I SG Ex nA IIC 74 G (device in zone 2]       Intervetor of orderity     Sol I SG Ex nA IIC 74 G (device in zone 2]       Directive sol 4/9/EC     Isolor39-(12, EN 60079-15:2010       Intervetor approval     16-0118       U_1 approval     16-0139	• •	self-opening connection terminals.
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   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     C-Type Examination Certificate   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     C-Type Examination Certificate   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     C-Type Examination Certificate   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     C-Type Examination Certificate   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     Current   U₀   143 mA     Power   P₀   600 mW     Supply   min. 117 Ω     Permissible connection values [EEx ia]   TUV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of protection   for 18 GEX nA IIC T4 Gc [device in zone 2]     Directive conformity   TUV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of protection   for 60 GOV     Directive valve/IEC   EN 60079-11:2012, EN 60079-15:2010     International approval   I16-0119     Control drawing		
Construction type     modular terminal housing , see system description       Mounting     o 35 mm DIN mounting rail acc. to EN 60715:2001       Data for application in connection with Exareas     BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     Go II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (-20 °C < T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     Uo     Ita 3 mA       Power     Po     Go Om W       Supply     Z50 V     Maximum safe voltage     Um       Series resistance     min. 117 Ω     Power       Permissible connection values [EEx i]     SEX V     Series resistance     Fill (-20 °C < T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Directive conformity     TU 99 ATEX 1484 X, observe statement of conformity     Go On W       Group, category, type of protection, temperature class     EX 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010     EX 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010       Interational approval     To -     Statement of conformity     File 16:018     Statement of conformity     File 16:018       UL approval     To -     Statement of conformity     File 16:018     File 16:018     File 16:018	Mass	approx. 150 g
Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       Data for application in connection with Ex-areas     So In ATEX 7005, for additional certificates see www.pepperl-fuchs.com       C-Type Examination Certificate     BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     Go II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U <sub>0</sub> 16.8 V       Current     U <sub>0</sub> 143 mA       Power     P <sub>0</sub> 600 mW       Supply     min. 117 Ω     250 V       Batament of conformity     GO II (30 GE x AI IIC 74 Gc [device in zone 2]     Go II (30 GE x AI IIC 74 Gc [device in zone 2]       Directive conformity     Ge II (30 GE x AI IIC 74 Gc [device in zone 2]     Go III (30 GE x AI IIC 74 Gc [device in zone 2]       Directive soft/some     III-0118     III-0118     III-0118       UL approval     III-0119     III-0119     III-0119       Control drawing     116-0119     III-0119     III-0119       Group of for     Fix ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I     General information     III-0119       Group of for     Fix ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I </td <td>Dimensions</td> <td>12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)</td>	Dimensions	12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
Data for application in connection with Ex-areas     BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       EC-Type Examination Certificate     BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com       Group, category, type of protection     It (1)GD, 1 (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia D	Construction type	modular terminal housing, see system description
with Exariasi     Indext 2005, for additional certificates see www.pepperf-fuchs.com       EC-Type Examination Certificate     BAS 01 ATEX 7005, for additional certificates see www.pepperf-fuchs.com       Group, category, type of protectom     Gol (1) (I) (GD, 1 (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] 1 (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     Up     16.8 V       Power     Pp     600 mW       Supply     500 v       Maximu safe voltage     Um     250 V       Series resistance     min. 117 Ω       Permissible connection values [EEx ia]     700 99 ATEX 1484 X, observe statement of conformity       Group, category, type of protection     Sol II GS Ex nA IIC TA Ge [device in zone 2]       Group, category, type of protection     Sol II GOT9-0:2012, EN 60079-11:2012, EN 60079-15:2010       Directive conformity     F     6       Group category type of protection     II 6-0118       UL approval     II 6-0118     III 6-0118       Control drawing     116-0119     III 6-0119       Group category drawing     II 6-0119     III 6-0119       Control drawing     III 6-0119     III 6-0119       Control drawing     III 6-0119	Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
EC-Type Examination Certificate   BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com     Group, category, type of protection   Sol 11(1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]     Voltage   U <sub>0</sub> 16.8 V     Current   I <sub>0</sub> 143 mA     Power   P <sub>0</sub> 600 mW     Supply   250 V   600 rC)     Maximum safe voltage   U <sub>m</sub> 250 V     Series resistance   min.117 Ω     Permissible connection values [Etxia]   TÜV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of protection, temperature class   TÜV 99 ATEX 1484 X, observe statement of conformity     Directive conformity   EN 60079-0:2012, EN 60079-15:2010     International approvals   EN 60079-0:2012, EN 60079-15:2010     International approval   116-0118     UL approval   116-0118     Control drawing   116-0119     IECEx paproval   [Ex a Ga] IIC, [Ex ia Ma] I     Control drawing   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Ma] I     Group   EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed	Data for application in connection	
Group, category, type of protection     (∞) II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C) [circuit(s) in zone 0/1/2]       Voltage     U₀     16.8 ∨       Current     I₀     143 mA       Power     P₀     600 mW       Supply      250 ∨       Maximum safe voltage     Um     250 ∨       Series resistance     mi. 117 Ω       Permissible connection values [EEx ia]     513 GE xn Al IIC 74 Gc [device in zone 2]       Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity       Group, category, type of protection, temperature class     [Si II 3G Ex nA IIC 74 Gc [device in zone 2]       Directive s04/9/EC     EN 60079-0:2012, EN 60079-15:2010       International approval     EN 60079-0:2012, EN 60079-15:2010       Control drawing     116-0118       UL approval     116-0118       Control drawing     116-0119       IECEx approval     [Ex ia Ga] IIC, [Ex ia Ma] I       Control drawing     116-0119       IECEx BAS 09.0142     [ECx BAS 09.0142       Approved for     [Ex ia Ga] IIC, [Ex ia Ma] I       General information     EC-Type Examination Certificate, Statement of	with Ex-areas	
VoltageU₀16.8 VCurrentI₀143 mAPowerP₀600 mWSupply600 mWSupply250 VSeries resistancemin. 117 ΩPermissible connection values [EExia]TÜV 99 ATEX 1484 X, observe statement of conformityStatement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityremperature classbil I 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012, EN 60079-15:2010Directive 94/9/ECEN 60079-0:2012, EN 60079-15:2010International approvalI16-0118UL approvalI16-0118UL approvalI16-0118Control drawingI16-0139Control drawingI16-0139ECEx approvalEIECEx BAS 09.0142Approved for[Ex ia Ga] IIC, [Ex ia Ma] IApproved forEX ia Ga] IIC, [Ex ia Ma] IGeneral informationEC-Type Examination Centificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-	EC-Type Examination Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Current   Io   143 mA     Power   Po   600 mW     Supply   500 mW     Maximum safe voltage   Um   250 V     Series resistance   min. 117 Ω     Permissible connection values [EEx ia]   TÜV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of protection, temperature class   TÜV 99 ATEX 1484 X, observe statement of conformity     Directive conformity   file 013 G Ex nA IIC T4 Gc [device in zone 2]     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   116-0118     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	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     600 mW       Supply         Maximum safe voltage     Um     250 V       Series resistance     min17 Ω       Permissible connection values [Exis]        Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity       Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity       Group, category, type of protection, femperature class     Si la GE xn All CT 4 Gc [device in zone 2]       Directive 94/9/EC     EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010       International approvals     EN 60079-0:2012, EN 60079-15:2010       FM approval     116-0118       Control drawing     116-0118       UL approval     116-0119       Control drawing     116-0119       IECEX approval     IECEX BAS 09.0142       Approved for     IEx ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I       Approved for     Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I       Guencal information     ECType Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity, and instructions have to be observed where applicable. For information see www.pepperf.	Voltage U <sub>o</sub>	16.8 V
Supply     Image of the second of t	Current I <sub>o</sub>	143 mA
Maximum safe voltage   Um   250 V     Series resistance   min. 117 Ω     Permissible connection values [EEx ia]   TÜV 99 ATEX 1484 X, observe statement of conformity     Statement of conformity   TÜV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of rotection, temperature class   Statement of conformity     Directive conformity   EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010     International approvals   EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010     FM approval   EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010     Control drawing   116-0118     UL approval   I16-0118     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	Power Po	600 mW
Series resistance     min. 117 Ω       Permissible connection values [EEx ia]     TÜV 99 ATEX 1484 X, observe statement of conformity       Statement of conformity     TÜV 99 ATEX 1484 X, observe statement of conformity       Group, category, type of protection, temperature class     Will 3G Ex nA IIC T4 Gc [device in zone 2]       Directive 94/9/EC     EN 60079-0:2012, EN 60079-15:2010       International approvals     EN 60079-0:2012, EN 60079-15:2010       FM approval     I16-0118       UL approval     116-0118       Control drawing     116-0119       Control drawing     116-0119       IECEx approval     IECEx BAS 09.0142       Approved for     [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I       General 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-	Supply	
Permissible connection values [EEx ia] TÜV 99 ATEX 1484 X, observe statement of conformity   Group, category, type of protection, temperature class Ii 3G Ex nA IIC T4 Gc [device in zone 2]   Directive conformity EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010   International approvals II 6-0118   FM approval 116-0118   UL approval 116-0139   Control drawing 116-0139   Control drawing 116-0119   IECEx approval ECC BAS 09.0142   Approved for [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I   General 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-	Maximum safe voltage Um	250 V
Statement of conformity   TÜV 99 ATEX 1484 X, observe statement of conformity     Group, category, type of protection, temperature class   III 3G Ex nA IIC T4 Gc [device in zone 2]     Directive conformity   EN 60079-0:2012, EN 60079-15:2010     International approvals   EN 60079-0:2012, EN 60079-15:2010     FM approval   I16-0118     UL approval   I16-0118     Control drawing   116-0139     Control drawing   I16-0119     IECEx approval   EC EX BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	Series resistance	min. 117 Ω
Group, category, type of protection, temperature class   Image: Section 2000 S	Permissible connection values [EEx ia]	
temperature classInternational approvalDirective onformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsInternational approvalsFM approvalInternational approvalsControl drawing116-0118UL approvalInternational approvalControl drawing116-0139Control drawing116-0119IECEx approvalIECEx BAS 09.0142Approved for[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] IGeneral informationEC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepper-	Statement of conformity	TÜV 99 ATEX 1484 X, observe statement of conformity
Directive 94/9/ECEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010FM approvalInte-0118Control drawing116-0118UL approvalInte-0119Control drawing116-0139CSA approvalInte-0119Control drawingInte-0119IECEx approvalIECEx BAS 09.0142Approved for[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] IGeneral informationEC-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-		€ II 3G Ex nA IIC T4 Gc [device in zone 2]
International approvals   International approval     FM approval   Inte-0118     Control drawing   116-0118     UL approval   Inte-0139     Control drawing   116-0139     CSA approval   Inte-0119     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	Directive conformity	
International approvalsInternational approvalsFM approval	Directive 94/9/EC	EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010
FM approval   I16-0118     Control drawing   116-0139     Control drawing   116-0139     CSA approval   I16-0119     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	International approvals	
Control drawing116-0118UL approval116-0139Control drawing116-0139CSA approval116-0119Control drawing116-0119IECEx approvalIECEx BAS 09.0142Approved for[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] IGeneral informationEC-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-		
UL approval   I16-0139     Control drawing   116-0139     CSA approval   I16-0119     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-		116-0118
Control drawing   116-0139     CSA approval   -     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	e e e e e e e e e e e e e e e e e e e	
CSA approval   Infection     Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-		116-0139
Control drawing   116-0119     IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	-	
IECEx approval   IECEx BAS 09.0142     Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-		116-0119
Approved for   [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I     General 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-	e e	
General 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-		
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-		[Ex la Gaj IIC, [Ex la Da] IIIC, [Ex la Ma] I
Conformity and instructions have to be observed where applicable. For information see www.pepperl-		
	Supplementary information	Conformity and instructions have to be observed where applicable. For information see www.pepperl-

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2