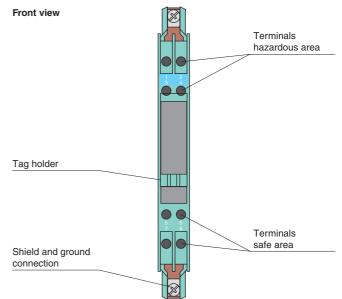
- 2-channel
- AC version
- Working voltage 10 V at 10 μA
- Series resistance max. 1033 Ω
- Fuse rating 50 mA
- · DIN rail mounting

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 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.

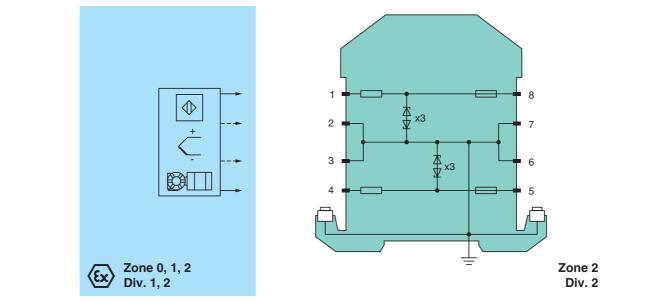
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.





Connection

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Assembly

General specifications AC version Flectrical specifications 000 Ω Series resistance 1000 Ω Fuse rating 50 mA Hazardous sera connection terminal resistance 1, 2, 3, 4 Safe area connection terminals 1, 2, 3, 4 Connection terminals 5, 6, 7, 8 Working voltage max, 11, 1V, 10 V at 10 µA Connection terminals 5, 6, 7, 8 Working voltage max, 11, 1V, 10 V at 10 µA Connection terminals 5, 6, 7, 8 Working voltage max, 11, 1V, 10 V at 10 µA Connection terminals 5, 6, 7, 8 Moting conflotos terminals 5, 6, 7, 8 Patient temperature -2060 °C (-4140 °F) Storage temperature -2060 °C (-4140 °F) Obrace temperature -2060 °C (-4140 °F) Begree of protection IP20 Connection self-opening connection terminals, max, 75 %, without moisture condensation Mass approx. 150 G Onstruction type modular terminal housing, see system description Onstruction type modular terminal housing, see		
Fierdial specifications>Nominal resistancemax. 103 ΩStates resistancemax. 103 ΩFuse raingSo mARear connectionterminals 1, 2, 3, 4State area connectionterminals 5, 6, 7, 8Connectionmax. 11.1 V, 10 Vat 10 µAConnectionmax. 11.1 V, 10 Vat 10 µAConformityterminals 5, 6, 7, 8Pagree of protection26.00 °C (4 140 °F)Storage temperature52.0.00 °C (4 140 °F)Storage temperature52.0.00 °C (4 158 °F)Relative humperature52.0.00 °C (4 158 °F)Relative humperature52.0.70 °C (13 158 °F)Relative humperature52.0.70 °C (13 158 °F)Relative humperatureself-opening connection terminals, max. core cross-section 2 × 2.5 mm²Massapprox. 150 gDimensionsself-opening connection terminals, max. core cross-section 2 × 2.5 mm²Nassapprox. 150 gDimensionsself-opening connection terminals, max. core cross-section 2 × 2.5 mm²Construction typemodular terminal housing, see system description on 35 rm DIN mounting rail acc. to EN 60715:2001Storage temperatureSelf-Opening connection terminals, endular terminal housing, see system description on 35 rm DIN mounting rail acc. to EN 60715:2001Storage temperatureSelf Opening connection terminals, endular terminal housing, see system description on 35 rm DIN mounting rail acc. to EN 60715:2001VorageU ₀ 12 vVorageU ₀ 12 vVorageU ₀ 12 v <t< td=""><td>General specifications</td><td></td></t<>	General specifications	
Nominal resistance 1000 Ω Series resistance max. 1033 Ω Fuse rating 50 mA Hazardous area connection terminals 1, 2; 3, 4 Series ratio connection terminals 5, 6; 7, 8 Working voltage max. 11 V , 10 V at 10 µA Connection terminals 5, 6; 7, 8 Working voltage max. 11 V , 10 V at 10 µA Conformity terminals 7, 7, 8 Pagree of protection terminals 7, 7, 8 Ambient conditions - 2060 °C (4140 °F) Storage temperature - 25 70 °C (13153 °F) Relative humidity expres of protection Machancial specifications tiP20 Construction type approx. 150 g Dimensions 12 Ps 115 x 110 mm (0.5 x 4.5 x 4.5 n) Construction type no dular terminals, no con consection 2 x 2.5 mn ² Mas approx. 150 g Dimensions 12 Ps 115 x 110 mm (0.5 x 4.5 x 4.5 n) Construction type no dular terminal housing, see system description Group, category, type of protection Si M S 01 ATEX 7005, for additional certificates see www.peppert-fuchs.com	Туре	AC version
Series resistance max. 1033 Ω Fuse raining 50 mA Fuse raining 50 mA Connection terminals 1, 2; 3, 4 Safe area connection terminals 5, 6; 7, 8 Connection terminals 5, 6; 7, 8 Working voltage max. 11.1 V, 10 V at 10 μ A Connection terminals 5, 6; 7, 8 Moting temperature 20 60 °C (4 140 °F) Storage temperature -20 60 °C (4 140 °F) Storage temperature -20 60 °C (4 140 °F) Relative humidity max. 75 %, without moisture condensation Mechanical specifications max. 75 %, without moisture condensation Mechanical specifications tel-opening connection terminals, max. core cross-section 2 x 2.5 mm ² Mass 125 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Connection tel-opening connection terminals, max. core cross-section 2 x 2.5 mm ² Mass 125 x 115 x 110 mm (0.5 x 4.5 x 4.3 in) Connection tel-opening connection terminals, max. for application in connection With Ex-areas tel-opening connection terminals, max. for application in connection Connection tel-opening connection terminals, max. for applicatin in connection Go	Electrical specifications	
Fuse rating 50 mA Hazardous area connection eminals 1, 2; 3, 4 Connection terminals 1, 2; 3, 4 Safe area connection eminals 5, 6; 7, 8 Working voltage max: 11.1 V, 10 V at 10 µA Connortiv EC 60529 Ambient conditions EC 60529 Ambient temperature 25 70 °C (-13 158 °P.) Storage temperature 25 70 °C (-13 158 °P.) Relative humidity max. 75 %, without moisture condensation Mechanical specifications IP20 Connection self-opening connection teminals, max. core cross-section 2 × 2.5 mm ² Mass approx. 150 g Dimensions 12.5 X15 X110 mm (0.5 X 4.5 X 4.3 n) Controtion aps MDH mounting rail ace. to EN 60715-2001 Outar terminal housing, see system description on 38. Outar terminal housing, see system description on 38. Connection See MDH MOULT (IN) [EX ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (20 °C < T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U A0 mW Cornection values [EX ia] EX of ATEX X005, for additional certificates see www.peppet-Fuchs.com	Nominal resistance	1000 Ω
Hzardous area connection terminals 1, 2; 3, 4 Safe area connection terminals 5, 6; 7, 8 Connoction terminals 5, 6; 7, 8 Working voltage max. 11.1 V, 10 V at 10 µA Connormity EC 60529 Ambient connolitions EC 60529 Ambient temparature -2060 °C (-4 140 °F) Storage temperature -2060 °C (-13 158 °F) Relative humidity max. 75 %, without moisture condensation Mechanical specifications IP20 Connection sell-opening connection terminals, max. 75 % or vithout moisture condensation Mass approx0.150 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 3 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection BAS 01 ATEX 7005, for additional certificates see www.peppert-luchs.com Goup, categor, type of protection Gol 11 (1)(O, 1)(M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] 1 (-20 °C < T _{amb} 5 60 °C) [circuit(s) in zone 0/1/2] Voltage U Yourent Io Power Po Staterent of conformity 250 V Staterent of conformity 12 PA Voltage UV 99 ATEX 1484 X, observe statement of conformity	Series resistance	max. 1033 Ω
Connection terminals 1, 2; 3, 4 Safe are connection terminals 5, 6; 7, 8 Connomity max. 11.1 V, 10 V at 10 μA Connomity max. 11.1 V, 10 V at 10 μA Degree of protection IEC 60529 Ambient conditions	Fuse rating	50 mA
Safe area connection terminals 5.6 7, 8 Working voltage max. 11.1 V, 10 V at 10 μA Connection terminals 5.6 7, 8 Morking voltage max. 11.1 V, 10 V at 10 μA Conformity terminals 5.6 7, 8 Degree of protection tel C 60529 Ambient comportations tel C 60529 Ambient temperature -20,60 °C (-4 140 °F) Storage temperature -20,60 °C (-13 158 °F) Relative humidity max. 75 %, without moisture condensation Mechanical specifications tel/copening connection terminals, max. core cross-section 2 × 2.5 mm ² Mass approx. 150 g Dimensions 12.5 × 115 × 110 mm (0.5 × 4.5 × 4.3 in) Construction type modular terminal housing , see system description Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Dia for application in connection tel X Correct de X of A TEX 7005, for additional certificates see www.peppert-fuchs.com Group, category, type of protection Go // U // I (Ex ia Da] IIC, [Ex ia Da] IIC, [Ex ia Ma] 1 (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U ₀ 12 vA Pow	Hazardous area connection	
Connection terminals 5, 6, 7, 8 Working voltage max. 11.1 V, 10 V at 10 µA Conformity	Connection	terminals 1, 2; 3, 4
Working voltage max. 11.1 V, 10 V at 10 μA Conformity EC 60529 Ambient conditions Ambient conditions <2060 °C (4140 °F)	Safe area connection	
Conformity Independent on different on dif	Connection	terminals 5, 6; 7, 8
Degree of protection IEC 60529 Ambient conditions -2060°C (-4140°F) Storage temperature -2070°C (-13158°F) Relative hundidly max. 75 %, without moisture condensation Mechanical specifications IP20 Degree of protection IP20 Connection self-opening connection terminals, max. core cross-section 2 × 2.5 mm ² 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 (a) II (100,1 (M1) [Ex ia Ga] IIC, [Ex ia DA] IIC, [Ex ia MA] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U _o 12 v Current U _o 250 V Series resistance min TUV 99 ATEX 1484 X, observe statement of conformity Oruge, category, type of protection, temperature class EX 00079-0:2012, EN 60079-11:2012, EN 60079-15:2010 Maximum safe voltage U _m 250 V EX 01 ATEX 7005, FO 200 Series resistance min Directive 94/8/EC EN 6	Working voltage	max. 11.1 V,10 V at 10 μA
Ambient conditions Ambient temperature -20 60 °C (-4 140 °F) Storage temperature -20 60 °C (-4 140 °F) -25 70 °C (-13 158 °F) Relative humidity max. 75 %, without moisture condensation -26 60 °C (-13 158 °F) Relative humidity max. 75 %, without moisture condensation -26 60 °C (-13 158 °F) Degree of protection IP20 -26 60 °C (-3 160 °C (-3 160 °C (-3 160 °C) Connection self-opening connection terminals, max. core cross-section 2 × 2.5 mm ² -26 60 °C (-3 160 °C) Mass approx. 150 g modular terminal housing , see system description Construction type modular terminal housing , see system description -08 °C (-16 160 °C) Muning on 35 mm DIN mounting rail acc. to EN 60715:2001 -28 °C	Conformity	
Ambient temperature -2060 °C (-4140 °F) Storage temperature -2570 °C (-13158 °F) Relative humidity max. 75 °C, without moisture condensation Mechanical specifications IP20 Connection self-opening connection terminals, max. core cross-section 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 in) Construction type modular terminal housing, see system description Mounting on 35 mm DN mounting rail acc. to EN 60715:2001 Data for application in connection See System description with Ex-areas EC-Type Examination Certificate BAS 01 ATEX 7005, for additional certificates see www.pepperi-fuchs.com See System description Voltage Up 12 vA Quirent Ip 12 vA Voltage Up 12 vA Supply min. 980 Ω Permissible connection values [Ex ia] Statement of conformity TÚ v9 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class Side Si A NIC TA Gc (evice in zone 2) Maximum safe voltage (Vp of protection, temperature class) TÚ v9 A ATEX 1484 X, observe statement of conformity	Degree of protection	IEC 60529
Storage temperature -25 70 °C (-13 158 °F) Relative humidity max. 75 %, without moisture condensation Mechanical specifications IP20 Degree of protection IP20 Connection self-opening connection terminals, max. core cross-section 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 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.pepperf-fuchs.com Corrue T I_0 12 mA Power P_0 40 mW Supply im. 980 Ω 12 mA Permissible connection values [Ex kia] 250 V Statement of conformity TÚ V 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, terminal approxe. Sign I 13 GE xn A IIC 74 Ge (evice in zone 2] Permissible connection values [Ex kia] TÚ V 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, termination certificate approxe. Sign I 3 GE xn A IIC 74 Ge (evice in zone 2] Directive avdrymite Sign A II	Ambient conditions	
Relative humidity max. 75 %, without moisture condensation Mechanical specifications IP20 Degree of protection IP20 Connection self-opening connection terminals, max. core cross-section 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 m) 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 www.peppert-fuchs.com Group, category, type of protection §S II (1)(3D, 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 12 v Current Io 12 mA Power Po 40 mW Supply min. 980 Ω Permissible connection values [EEx ia] TÜV 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 Directive conformity Si II GE x nA II CT 4G [device in zone 2] Directive conformity Si II GS X nA IIC T4 G [device in zone 2] Directive s4/4/PEC	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 ² 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 Difference BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com Mats Group, category, type of protection Outage U 12 v Current Io 12 a N Supply 12 v 12 v Power Po 12 v Power Po 250 V Series resistance min.990 Ω Parmiselible connection values [EExia] TÚ 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class Si S	Storage temperature	-25 70 °C (-13 158 °F)
Mechanical specifications IP20 Degree of protection IP20 Connection self-opening connection terminals, max. core cross-section 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 in) Construction type modular terminal housing, see system description Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Difference BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com Mats Group, category, type of protection Outage U 12 v Current Io 12 a N Supply 12 v 12 v Power Po 12 v Power Po 250 V Series resistance min.990 Ω Parmiselible connection values [EExia] TÚ 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class Si S	Relative humidity	max. 75 %, without moisture condensation
Degree of protection IP20 Connection self-opening connection terminals, max. core cross-section 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 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 Group, category, type of protection Go II (I)(D, 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 Power Po Voltage Uo Supply 250 V Mini. 980 Ω TUV 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class TUV 99 ATEX 1484 X, observe statement of conformity Directive self/s/EX EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 International approval EN 60079-0:2012, EN 60079-15:2010 International approval I16-0118 Control drawing I16-0139		
Connection self-opening connection terminals, max, core cross-section 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 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 , for additional certificates see www.pepperl-fuchs.com Corup, category, type of protection Voltage Uo 12 V Current Jo 12 mA Power Po 40 mW Supply min. 980 Ω 12 V 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 TÜV 99 ATEX 1484 X , observe statement of conformity Directive Group EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010 Intervisional approval EN 60079-0:2012, EN 60079-15:2010 Intervisional approval 116-0118 UL approval 116-0118	-	IP20
max. core cross-section 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 in) Construction type modular terminal housing , see system description Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Date for application in connection with Ex-areas 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 Group, category, type of protectom EN II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U _o 12 v Current I _o 20 mA Power P _o 40 mW Supply 10 on W Ex Maximum safe voltage U _m 250 V Statement of conformity TÚV 99 ATEX 1484 X , observe statement of conformity Supple Group, category, type of protection, temperature class Sup II Ga Ex nA IIC T4 Gc [device in zone 2] III Go III GEX Directive 94/9/EC EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 EN 60079-0:2012, EN 60079-15:2010 Harmational approval	÷ .	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 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 Si 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 U ₀ 12 V Current I ₀ 12 mA Power P ₀ 40 mW Supply min. 980 Ω Permissible connection values [EEx ia] TÜV 99 ATEX 1484 X , observe statement of conformity Group, category, type of protection, temperature class Si II 3G 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 approval 116-0118 UL approval 116-0118 UL approval 116-0139		
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 , 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 Gw II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U _o 12 v Current I _o 12 mA Power P _o 40 mW Supply min. 980 Ω min. 980 Ω Permissible connection values [EEx ia] TÚV 99 ATEX 1484 X , observe statement of conformity Group, category, type of protection, temperature class Directive conformity TÚV 99 ATEX 1484 X , observe statement of conformity EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010 International approval EN 60079-0:2012, EN 60079-11:2012 , EN 60079-15:2010 International approval Inte-0118 UL approval 116-0118 116-0118 116-0139	Mass	approx. 150 g
Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Exareas Figure 2000 EC-Type Examination Certificate BAS 01 ATEX 7005 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Give 11 (JGD, 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 U ₀ 12 V Current I ₀ 12 mA Power P ₀ 40 mW Supply 250 V Maximum safe voltage U _m Statement of conformity 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 onformity TÜV 99 ATEX 1484 X , observe statement of conformity Group, category, type of protection, temperature class EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 International approval EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 International approval 116-0118 UL approval 116-0118	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 ⟨ω] 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 U₀ 12 V Current I₀ 12 mA Power P₀ 40 mW Supply 250 V Maximum safe voltage Um 250 V Permissible connection values [EEx ia] Statement of conformity TÜV 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class [I 3G Ex nA IIC T4 Gc [device in zone 2] Directive exolformity [N 13G 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 [16-0118 UL approval [16-0118 UL approval [16-0139	Construction type	modular terminal housing, see system description
with Ex-areas Ex-areas EC-Type Examination Certificate BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com Group, category, type of protection (a) II (1) (DD, 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 U _o 12 V Current I _o 12 mA Power P _o 40 mW Supply 250 V Maximum safe voltage U _m 250 V Series resistance min. 980 Ω Permissible connection values [EEx ia] TÚV 99 ATEX 1484 X, observe statement of conformity Group, category, type of protection, temperature class Wil I 3G Ex nA IIC T4 Gc [device in zone 2] Directive schornity 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 UL approval 116-0118	Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
EC-Type Examination Certificates BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com Group, category, type of protection I (1)GD, I (M1) [Ex ia Ga] IIIC, [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2] Voltage U _o 12 V Current I _o 12 mA Power P _o 40 mW Supply 250 V Maximum safe voltage U _m Steries resistance min. 980 Ω Permissible connection values [EEx ia] 10 V 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 EN 60079-0:2012, EN 60079-15:2010 Directive 94/9/EC EN 60079-0:2012, EN 60079-15:2010 International approvals EN 60079-0:2012, EN 60079-15:2010 FM approval 116-0118 UL approval 116-0118	Data for application in connection	
Group, category, type of protection Image with the state of the stat	with Ex-areas	
VoltageUo12 VCurrentIo12 mAPowerPo40 mWSupply-Maximum safe voltageUm250 VSeries resistancemin. 980 ΩPermissible connection values [EEx ia]-Statement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classSi I 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvals116-0118UL approval116-0118UL approval116-0139	EC-Type Examination Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
CurrentIo12 mAPowerPo40 mWSupply50 VMaximum safe voltageUm250 VSeries resistancemin. 980 ΩPermissible connection values [EEx ia]TÜV 99 ATEX 1484 X, observe statement of conformityStatement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classSi a G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsEN 60079-0:2012, EN 60079-15:2010FM approval116-0118UL approval116-0118UL approval116-0139	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]
PowerPo Po40 mWSupply40 mWMaximum safe voltageUmSeries resistancemin. 980 ΩPermissible connection values [EEx ia]TÜV 99 ATEX 1484 X, observe statement of conformityStatement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classSi II 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsII-0118FM approval116-0118UL approval116-0139	Voltage U _o	12 V
SupplySupplyMaximum safe voltageUm250 VSeries resistancemin. 980 ΩPermissible connection values [EEx ia]TÜV 99 ATEX 1484 X, observe statement of conformityStatement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classTÜV 99 ATEX 1484 X, observe statement of conformityDirective conformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010FM approval116-0118UL approval116-0118Outrol drawing116-0139	Current I _o	12 mA
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Series resistancemin. 980 ΩPermissible connection values [EEx ia]TÜV 99 ATEX 1484 X, observe statement of conformityStatement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classSi II 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvals-FM approval-Control drawing116-0118UL approval-Control drawing116-0139	Supply	
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 Statement of conformity Directive sol/sy/EC EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 International approvals - FM approval 116-0118 UL approval 116-0139	Maximum safe voltage Um	250 V
Statement of conformityTÜV 99 ATEX 1484 X, observe statement of conformityGroup, category, type of protection, temperature classII 3G Ex nA IIC T4 Gc [device in zone 2]Directive conformityDirective 94/9/ECEN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010International approvalsFM approvalControl drawing116-0118UL approvalControl drawing116-0139	Series resistance	min. 980 Ω
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	UL approval	
CSA approval		116-0139
	CSA approval	
Control drawing 116-0119		116-0119
IECEx approval IECEx BAS 09.0142	IECEx approval	
Approved for [Ex 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
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.pepperl-fuchs.com.	Supplementary information	Conformity and instructions have to be observed where applicable. For information see www.pepperl-

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