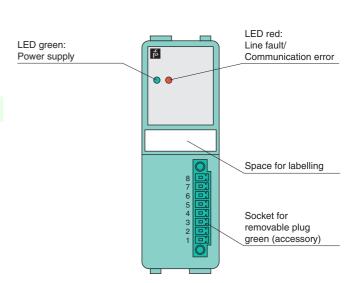
Features

- 4-channel
- Analog output module for 0/4 mA ... 20 mA
- Installation in Zone 2, Zone 22, or safe area
- HART communication via field bus or service bus
- Simulation mode for service operations (forcing)
- · Permanently self-monitoring
- Module can be exchanged under voltage (hot swap)

Function

The device drives positioners, proportional valves, I/P converters, or local indicators.

The outputs are galvanically isolated from the bus and the power supply.



CE

Assembly

Front view

Connection

8-00.00 IV 뜄 74 6ш{ COM 5-4-Π 3-2-00.00 因 Ι 1+



Constroinbackpace bisRadar voltage12 V DC. only novema supplies LB9**Powe countingtion12 V DC. only novema supplies LB9**Constroinbackpace bisInterfacenandatative specific but to standard Com UnitigatewayOuton12 V DC. only novema specific but to standard Com UnitigatewayOutonnandatative specific but to standard Com UnitigatewayOuton12 V DC. only novema specific but to standard Com UnitigatewayOuton12 V DC. only novema specific but to standard Com UnitigatewayNovema Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayPointer12 V DC. only novema specific but to standard Com UnitigatewayNovema Specific but to standard Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayNovema Specific but to standard Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayNovema Specific but to standard Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayIntercord Specific but to standard Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayIntercord Specific but to standard Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayIntercord Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com UnitigatewayIntercord Specific but to standard Com Unitigateway12 V DC. only novema specific but to standard Com Unitigateway <tr< th=""><th>Quarter</th><th></th></tr<>	Quarter	
Baled voltage 12 / DC, only in connection with the power supplies LBP** Internation 3W Internation SW Connection Backglame bus Internation manufacturer specific bus to standard Com Unitigateway Output Immufacturer specific bus to standard Com Unitigateway Connection 1 ammufacturer specific bus to standard Com Unitigateway Connection Immufacturer specific bus to standard Com Unitigateway Connection 1 ammufacturer specific bus to standard Com Unitigateway Transfer ofmacteristics Transfer ofmacteristics Transfer ofmacteristics Unitigate specific bus to standard Com Unitigateway Indicators/necting 0.1 % K of the input signal range Transfer ofmacteristics Unitigate specific bus to standard Com Unitigateway Indicators/necting Unitigateway Electorstangelic compatibility Electorstangelic compatibility Electorstangelic compatibility NE 21 Electorstangelic compatibility NE 21 Electorstangelic compatibility NE 21 Electorstangelic compatibility NE 21 Protecot compatibility NE 21	Supply	
Power sogramption 34 With the second se		•
Internal During Description bus Interface multiculars specific bus of standard Com Unit/gataway Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Connection Issminus 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Description Issminus 1+, 2-, 3+, 4-, 5+, 7+, 7+, 7+, 7+, 7+, 7+, 7+, 7+, 7+, 7	v	
Connectionbis/bis/bis/bis/bis/bis/bis/bis/bis/bis/	•	3 W
Interface manufacturer specific bus to standard Con Unitigateway Object Someation terminals 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8- Current 4 20 mA (D 25 mA) Someation Load 750 B max. Response threshold 5 800 L Reponse threshold 5 800 L 2 800 L 2 800 L Watchoog Output 01 5 5 after serious fault Tomater characteristics Deviation 0.1 % of the input signal range at 20 °C (8 °F) Tomater characteristics Tender characteristics 2 0.0 % of the input signal range 2 0.0 % of the input signal range Reliefsh line approx.58 ms 3 pace for tabeling at the front socket , optional Directive contromity EED green: supply Rel EED floations Directive contromity EED floations EED floations Directive contromity EED floations EED floations Electromagnetic compatibility Proceedin dOors EED floations Proceedin dOors EED floations EED floations Electromagnetic compatibility ED floations ED floations Proceedin dOors ED floations ED floati		he shules a hur
Output Connection Connection 4 = 20 mA (0 25 mA) Current 4 = 20 mA (0 25 mA) Appones threshold 2 650.0 Parspones threshold 2 650.0 Watchdoig output off 0.5 s after serious fault Transfer characteristics 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the input signal range at 20 °C (88 °F) Indicators/settings 0.1 % of the in		
Connection tormals 1+, 2, 3, 4, 5, 6, 6, 7, 8 Corrent 4, 20 and (0, 25 mA) abor-force/protected Connection 750 0 max. Response hreshold 260 0 Watchdog output 010.5 s allor serious fault Transfor characteristics Implement 0 market in the protected Deviation 0.1 % of the input signal range at 20 °C (08 °F) Influence of ambient temperature 000 % KB ms Barbers EED reflecter Influence of ambient temperature 000 % KB ms Barbers EED reflecter EED reflecter EED reflecter Eabeling eapee for baseling at the front socker, optional Device controntity EED reflecter Electermagnetic compatibility EN 1028-1 Device conditions EN 1028-1 Enderdings EN 1028-1 Enderdings EN 10088-2-14 Enderdings EN 10088-2-14 Envice compatibility EN 10088-2-14 Envice conditions EN 10088-2-14 Environmental test EN 60088-2-14 Envindity Environs EN 10088-2-14		manufacturer specific bus to standard Com Unit/gateway
Current 420 mk (025 m Å) Control 750 At max. Response threshold 2 850 D Watchlog output of 0.5 a fair sorious fault Transfer characteristics Deviation Deviation 0.1% of the input signal range at 20 °C (68 °F) Influence of ambient temperature 0.1% of the input signal range Refresh time approx. 58 ms 110 ms during HART Deviation Labeling space for labeling at the front Coding mechanication error Rel ED, Indicator / Sector apploit Rel ED indicator Directive conformity Exercomagnetic compatibility Directive conformity Exercomagnetic compatibility Directive conformity Exercomagnetic compatibility Exercomagnetic compatibility NE 21 Directive 2004/108/EC EN 80068-24 Conformity Exercomagnetic compatibility Exercomagnetic compatibility NE 21 Protection degree EN 80068-24 Panalabor tunnicity EN 80068-24 Damaging gas EN 80068-24 Anabor tunnicity EN 80068-24 Anabor tunnicity EN 80068-24 Damaging gas EN 80068-24 Anabor tunnicity EN 80068-24 Anabor tunnicit	•	
obsof booksSold pressSold PressResponse hresholdSold PressWatchdogoutput off 0.5 s after senious faultTansfer characteristicsDif Sold the input signal range at 20 °C (68 °F)Beniation0.01 % off the input signal range at 20 °C (68 °F)Refresh time201 % off the input signal range at 20 °C (68 °F)Inducer of arbibent tropperture0.01 % off the input signal range at 20 °C (68 °F)Inducer of arbibent tropperture0.01 % off the input signal range at 20 °C (68 °F)Indicator StettingsED groens supplyIndicator StettingsED groens supplyIndicator StettingsED groens supplyBetter on supplymechanical coding at the front socket , optionalOutput to compatibilityED codingElectromagnetic compa		
Response hreshold 2 650 0 Watchdog output of 0.5 s for serious fault Transfer characteristics 1 Deviation 0.01 % of the input signal range at 20 °C (68 °F) Influence of ambient temperature 0.01 % of the input signal range at 20 °C (68 °F) Influence of ambient temperature 0.01 % of the input signal range Indicator/Sectings E Exb Indicator 0.01 % of the input signal range Calding space for italing : communication error Contomity space for italing : communication error Directive 2004/108/EC Ho 8128-14 Contomity Ho 8128-14 Space for italing : compatibility Ho 8128-14 Contomity EK 60068-24 Viencion resistance EK 60068-24 Ambient temperature Space for (13		short-circuit protected
Waintoig output off 0.5 s after sorious fault Transfer characteristics 0.1 % of the input signal range at 20 °C (68 °F) Influence of ambient temperature 0.0 1 % of the input signal range Refresh time approx. 36 ms Influence of ambient temperature 0.0 1 % of the input signal range Refresh time approx. 36 ms Indicator/settings ED ranks upper temperature Refresh time approx. 36 ms Indicator/settings ED areans upper temperature Refresh time space. 56 ms Indicator/setting space. 50 ms Directive conformity ED for the forth socket , optional Directive conformity EN 61326-11 Electomagnetic compatibility NE 21 Directive conformity EN 60068-2-27 Electomagnetic compatibility EN 60068-2-14 Shock resistance EN 60068-2-16 Damaging gas EN 60068-2-16 Relative humidity EN 60068-2-16 Ambient conditions -25 85 °C (13 185 °F) Ambient conditions -25 85 °C (13 185 °F) Shock resistance E		
Transfer information Information Deviation 0.1% A/K of the input signal range Influence of anbient temperature Refresh time 0.1% A/K of the input signal range Refresh time 201% A/K of the input signal range Refresh time 201% A/K of the input signal range IndicatorsSettings IndicatorsSettings Labeling Space for Labeling af the front socket, optional Deviation Space for Labeling af the front socket, optional Directive 2004/108/EC Exel State-1 Conformity Exel State-1 Directive 2004/108/EC Exel State-1 Conformity Exel State-1 Directive 2004/108/EC Exel State-1	•	
Devision 0.1% of the input signal range at 20 °C (68 °F) Influence of ambient temperature 0.01% K of the input signal range Refresh time approx.25 ms Influence of ambient temperature approx.25 ms Labeling space for labeling at the front socket, optional Directive conformity Electromagnetic compatibility Directive condermity Electromagnetic compatibility Electromagnetic compatibility NE 21 Electromagnetic compatibility EN 60068-214 Shock resistance EN 60068-246 Ambient conditione EN 60068-246 Ambient temperature 29		output off 0.5 s after serious fault
Influence of ambient temperature 0.01 %/K of the input signal range Refresh imme approx.58 ms Toll ms during MART Intersection of the input signal range Indicators/settings ED origins is communication error Labeling the forth Coding mechanical coding at the front socket , optional Directive zoo4/100/EC EN 61326-1 Conformity Electomagnetic compability Directive zoo4/100/EC EN 61326-1 Conformity Electomagnetic compability Protection degree EC 60529 Environmental test EN 60088-24 Shock resistance EN 80088-24 Ambient temperature -2080 °C (-4 140 °F), 70 °C (non-Ex) Storage temperature -2585 °C (-13 185 °F) Relative humidity EN 80088-248 Maleint conditions -2585 °C (-13 185 °F) Relative humidity EN 80088-248 Maleint conditions -2585 °C (-13 185 °F) Relative humidity EN 80088-248 Ambient conditions -2585 °C (-13 185 °F) Relative humidity EN 800088		
Refresh time approc. 58 ms 110 ms during HART 110 ms during HART LED indicator LED green: supply Red LED, fissing : communication error Labeling space for labeling at the front Coding mechanical coding at the front socket , optional Directive conformity Electromagnetic compatibility Directive 2004/08/EC EN 61326-1 Conformity Electromagnetic compatibility Directive 2004/08/EC EN 61326-1 Conformity Electromagnetic compatibility Directive 2004/08/EC EN 60068-2-14 Shock resistance EN 80068-2-42 Banaging gas EN 80068-2-42 Relative humidity EN 80068-2-42 Ambient conditions -20 60 °C (-4 140 °F) , 70 °C (non-Ex) Storage temperature -25 85 °C (-13 185 °F) Relative humidity 95 % non-condonsing Shock resistance Protoction 100 Intration resistance IP20 (module) , mounted on backplane Connection Greagen 2: 1 days in 25 pm SO ₂ , at 27 °C and 75 % rel. humidity, device G3 Mechanical specifications in connections spring connection		
110 ms during HART Indicator/Settings LED Indicator Area LED, flashing: communication error Read LED, flashing: communication error Calding mechanical coding at the front coding Directive conformity Electromagnetic compatibility Diractive 2004/108/EC Conformity Electromagnetic compatibility Diractive 2004/108/EC Electromagnetic compatibility		
LED indicator LED green: supply Ped LED, flashing : communication error Labeling space for labeling at the front Coding mechanical coding at the front socket, optional Directive conformity Electromagnetic compatibility Directive 2004/108/EC Eln 61326-1 Conformity Electromagnetic compatibility Protection degree IEC 66529 Ervironmental test EN 60068-2-14 Shock resistance EN 60068-2-14 Shock resistance EN 60068-2-14 Shock resistance EN 60068-2-14 Shock resistance EN 60068-2-42 Palative humidity EN 60068-2-42 Palative humidity EN 60068-2-42 Relative humidity 55 % non-condensing Shock resistance 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-2060 °C (-4140		
Red LED, Isabing: communication error Labeling space for labeling at the front socket , optional Directive conformity Electromagnetics compatibility Directive 2004/108/EC EN 61326-1 Conformity Electromagnetics compatibility Directive 2004/108/EC EN 61326-1 Conformity Electromagnetics compatibility Directive 2004/108/EC EN 6008-2-14 Stock resistance EN 6008-2-42 Damaging gas EN 6008-2-42 Relative humidity EN 6008-2-42 Ambient temperature EN 6008-2-42 Ambient temperature EN 6008-2-42 Ambient temperature 25	Indicators/settings	
Coding mechanical coding at the front socket , optional Directive conformity Electromagnetic compatibility Directive 2004/108/EC EN 61326-1 Conformity Electromagnetic compatibility Electromagnetic compatibility NE 21 Protection degree EC 60529 Environmental test EN 60068-2-47 Vibration resistance EN 60068-2-42 Banaging gas EN 60068-2-42 Relative humidity EN 60068-2-42 Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tomperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage tom	LED indicator	Red LED, flashing : communication error
Directive conformity Interview Conformity Electromagnetic compatibility EN 61326-1 Directive 2004/108/EC EN 61326-1 Conformity EN 61326-1 Directive 2004/108/EC EN 60068-2-14 Shock resistance EN 60068-2-42 Diraction organizatione EN 60068-2-42 Diraction organizatione EN 60068-2-42 Diraction organizatione EN 60068-2-42 Damaging gas EN 60068-2-42 Relative humidity EN 60068-2-42 Mabient conflutions EN 60068-2-42 Ambient conflutions EN 60068-2-42 Relative humidity EN 60068-2-42 Shock resistance EN 60068-2-65 Ambient conflutions EN 60068-2-66 Ambient conflutions EN 60068-2-65 Relative humidity 95 % non-condensing Shock resistance e20 60 °C (4 140 °F), 70 °C (non-Ex) Protection degree frequency range 5 500 Hz, amplitude 50 m/s ² , number of shock directions 6, number of shock is directions 6, number of shock is direction 100 weeps 5 Hz - 100 HZ - 5 Hz Damaging gas frequency range 5 500 HZ, ant 50 °C and 75 % rel. humidit	Labeling	space for labeling at the front
Electromagnetic compatibility Interface Directive 2004/108/C EN 61326-1 Conforminy Electromagnetic compatibility NE 21 Electromagnetic compatibility NE 21 Electromagnetic compatibility NE 21 Electromagnetic compatibility NE 21 Electromagnetic compatibility NE 21 Electromagnetic compatibility NE 20058-2-14 Electromagnetic compatibility Electromagnetic	Coding	mechanical coding at the front socket, optional
Directive 2004/108/EC EN 61328-1 Conformity NE 21 Electronagnetic compatibility NE 21 Protection degree EIC 60529 Environmental test EN 60068-2-27 Stock resistance EN 60068-2-6 Damaging gas EN 60068-2-42 Belative humidity EN 60068-2-56 Ambient conditions -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Storage temperature -20 60 °C (-41 40 °F), 70 °C (non-EX) Damaging gas for pluse: 21 days in 25	Directive conformity	
Contornity NE 21 Electromagnetic compatibility NE 21 Protection degree EE 60529 Environmental test EN 60068-2-14 Shock resistance EN 60068-2-60 Damaging gas EN 60068-2-60 Ambient temperature EN 60068-2-56 Ambient conditions	Electromagnetic compatibility	
Electromagnetic compatibility NE 21 Protection degree IEC 60529 Environmental test EN 60068-2-14 Shock resistance EN 60068-2-62 Damaging ga EN 60068-2-42 Relative humidity EN 60068-2-42 Ambient temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 2-060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature 1-060 °F), 10 °C (10150 °	Directive 2004/108/EC	EN 61326-1
Protection degree IEC 60529 Environmental test EN 60068-2-14 Shock resistance EN 60068-2-27 Vibration resistance EN 60068-2-42 Damaging gas EN 60068-2-42 Relative humidity EN 60068-2-42 Ambient conditions	Conformity	
Environmental test EN 60068-2-14 Shock resistance EN 60068-2-7 Vibration resistance EN 60068-2-6 Damaging gas EN 60068-2-42 Relative humidity EN 60068-2-56 Ambient temperature -2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature -2585 °C (-13185 °F) Relative humidity 95 % non-condensing Shock resistance Shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5500 Hz, amplitude 513.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 pm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications if requency range 5 Hz - 100 Hz - 5 Hz Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with score wit fange - wiring connection: spring terminals: (0.14 1.5 mm ²), screew terminals: (0.08 1.5 mm ²) - plug with score wit fange - wiring connection: spring terminals: (0.14 1.5 mm ²), screew terminals: (0.08 1.5 mm ²) - removable terminals - plug with score wit fange - wiring connection: spring terminals: (0.14 1.5 mm ²), screew terminals: (0.08 1.5 mm ²)	Electromagnetic compatibility	NE 21
Shock resistance EN 60068-2-27 Vibration resistance EN 60068-2-6 Damaging gas EN 60068-2-42 Relative humidity EN 60068-2-66 Ambient conditions - Ambient conditions - Ambient emperature -20 60 °C (-4 140 °F), 70 °C (non-Ex) Storage temperature -25 45 °C (-13 145 °F) Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for pulgs: 21 days in 25 pm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications requency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for pulgs: 21 days in 25 pm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications in yming connection: sping terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) wing connection sping terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection for JI G EX nA [ic] IIC T4 <	Protection degree	IEC 60529
Vibration resistanceEN 60068-2-6Damaging gasEN 60068-2-42Relative humidityEN 60068-2-56Ambient comportations-20 60 °C (-4 140 °F) , 70 °C (non-Ex)Storage temperature-25 85 °C (-13 185 °F)Relative humidity95 % non-condensingShock resistanceshock type (, shock duration 11 ms, shock amplitude 50 m/s², number of shock directions 6, number of shocks per direction 100Vibration resistancefrequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mn, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 HzDamaging gasfor plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3Mechanical specificationsHP20 (module) , mounted on backplaneConnectiondevice plug (accessories) - removable terminals - viving connection: spring terminals: (0.14 1.5 mm²), screw terminals: (0.08 1.5 mm²)Mass32 x 100 x 103 mm (1.26 x 3.9 x 4 in)Declaration of conformityPF 08 CERT 1234 XGroup, category, type of protection, top terminalssafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective exonformitysafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective 94/9/ECNo 60079-0, EN 60079-11, EN 60079-15IECEx approvalBVS 09.0037X	Environmental test	EN 60068-2-14
Damaging gas EN 60068-2-42 Relative humidity EN 60068-2-56 Ambient conditions -2060 °C (-4140 °F), 70 °C (non-Ex) Storage temperature -2060 °C (-13185 °F) Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas frequency range 5500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas frequency range 5500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas inequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Data for application in connection inequency interminals viving connection: spring terminals -plug with screw flange viving connection	Shock resistance	EN 60068-2-27
Relative humidity EN 60068-2-56 Ambient conditions -20 60 °C (-4 140 °F) , 70 °C (non-Ex) Storage temperature -25 85 °C (-13 185 °F) Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks gre direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Protection degree Protection degree IP20 (module) , mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection § N I 3G Ex nA [ic] IIC T4 Group, category, type of protection, temperature class Si II 3G Ex nA [ic] IIC T4 Directive solitoin safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive supply, internal bus safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive supply, internal bus saf	Vibration resistance	EN 60068-2-6
Ambient conditions	Damaging gas	EN 60068-2-42
Ambient temperature-20 60 °C (4 140 °F), 70 °C (non-Ex)Storage temperature-25 85 °C (-13 185 °F)Relative humidity95 % non-condensingShock type l, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100Vibration resistancefrequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 HzDamaging gasfor plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3Mechanical specificationsProtection degreeIP20 (module), mounted on backplaneConnectiondevice plug (accessories) - removable terminals 	Relative humidity	EN 60068-2-56
Storage temperature -25 85 °C (-13 185 °F) Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Protection degree Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals: 0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Mass approx. 150 g Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Detal or application in connection, with Ex-areas for 91 ISG Ex nA [ic] IIC T4 Output/power supply, internal bus Safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive edifyield EN 60079-0, EN 60079-11, EN 60079-15 Itereational approvals EVS 09.0037X	Ambient conditions	
Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Protection degree Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection So (So CERT 1234 X Group, category, type of protection, temperature class I I 3G Ex nA [ic] IIC T4 Electrical isolation So (So COP-0, EN 60079-11, EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 Iterational approvals EVS 09.0037X	Ambient temperature	
Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications revolue), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Mass approx. 150 g Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection with Ex-areas FP 08 CERT 1234 X Group, category, type of protection, temperature class I 3G Ex nA [ic] IIC T4 Electrical isolation safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals BVS 09.0037X	Storage temperature	
per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 pm SO2, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Mass approx. 150 g Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Detactor onformity PF 08 CERT 1234 X Group, category, type of protection, temperature class safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive su/s/JEC EN 60079-0, EN 60079-11, EN 60079-11, voltage peak value 375 V Directive su/s/JEC EN 60079-0, EN 60079-11, EN 60079-15 IECEx approval EV 90.0037X	Relative humidity	· · · · · · · · · · · · · · · · · · ·
duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - yuitrig connection: spring terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Mass approx. 150 g Data for application in connection with Exareas 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Declaration of conformity PF 08 CERT 1234 X Group, category, type of protection, temperature class PF 08 CERT 1234 X Output/power supply, internal bus Directive conformity safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 IECEx approval BVS 09.0037X	Shock resistance	per direction 100
Mechanical specifications IP20 (module), mounted on backplane Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm²), screw terminals: (0.08 1.5 mm²) Mass approx. 150 g Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection with Ex-areas PF 08 CERT 1234 X Declaration of conformity PF 08 CERT 1234 X Group, category, type of protection, temperature class Sel II 3G Ex nA [ic] IIC T4 Directive conformity safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals BVS 09.0037X	Vibration resistance	
Protection degree IP20 (module), mounted on backplane Connection device plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm ²), screw terminals: (0.08 1.5 mm ²) Mass approx. 150 g Dimensions 32 x 100 x 103 mm (1.26 x 3.9 x 4 in) Data for application in connection with Ex-areas PF 08 CERT 1234 X Declaration of conformity PF 08 CERT 1234 X Group, category, type of protection, temperature class Safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals EVS 09.0037X	Damaging gas	for plugs: 21 days in 25 ppm SO_2, at 25 $^\circ\text{C}$ and 75 $\%$ rel. humidity, device G3
Connectiondevice plug (accessories) - removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm²), screw terminals: (0.08 1.5 mm²)Massapprox. 150 gDimensions32 x 100 x 103 mm (1.26 x 3.9 x 4 in)Data for application in connection with Ex-areasPF 08 CERT 1234 XDeclaration of conformityPF 08 CERT 1234 XGroup, category, type of protection, temperature classSafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective 94/9/ECEN 60079-0, EN 60079-11, EN 60079-15International approvalsEVS 09.0037X	Mechanical specifications	
- removable terminals - plug with screw flange - wiring connection: spring terminals: (0.14 1.5 mm²), screw terminals: (0.08 1.5 mm²)Massapprox. 150 gDimensions32 x 100 x 103 mm (1.26 x 3.9 x 4 in)Data for application in connection with Ex-areasPF 08 CERT 1234 XDeclaration of conformityPF 08 CERT 1234 XGroup, category, type of protection, temperature classSige all a CERT 1234 XElectrical isolationsafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective conformitysafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective 94/9/ECEN 60079-0, EN 60079-11, EN 60079-15International approvalsBVS 09.0037X	Protection degree	IP20 (module), mounted on backplane
Dimensions32 x 100 x 103 mm (1.26 x 3.9 x 4 in)Data for application in connection with Ex-areas32 x 100 x 103 mm (1.26 x 3.9 x 4 in)Declaration of conformityPF 08 CERT 1234 XGroup, category, type of protection, temperature classSi II 3G Ex nA [ic] IIC T4Electrical isolationSafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective conformityEN 60079-0, EN 60079-11, EN 60079-15International approvalsEVS 09.0037X	Connection	- removable terminals - plug with screw flange
Data for application in connection with Ex-areasPF 08 CERT 1234 XDeclaration of conformityPF 08 CERT 1234 XGroup, category, type of protection, temperature classII 3G Ex nA [ic] IIC T4Electrical isolationOutput/power supply, internal bussafe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 VDirective onformityEN 60079-0, EN 60079-11, EN 60079-15International approvalsEVS 09.0037X	Mass	approx. 150 g
with Ex-areas PF 08 CERT 1234 X Declaration of conformity PF 08 CERT 1234 X Group, category, type of protection, temperature class II 3G Ex nA [ic] IIC T4 Electrical isolation safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive conformity EN 60079-0, EN 60079-11, EN 60079-15 International approvals EV 90.0037X	Dimensions	32 x 100 x 103 mm (1.26 x 3.9 x 4 in)
Group, category, type of protection, temperature class II 3G Ex nA [ic] IIC T4 Electrical isolation safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive conformity safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals EVS 09.0037X	Data for application in connection with Ex-areas	
temperature class Image: Class class Electrical isolation Electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive conformity safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals Image: Class clas cla	Declaration of conformity	PF 08 CERT 1234 X
Output/power supply, internal bus safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V Directive conformity EN 60079-0, EN 60079-11, EN 60079-15 International approvals EVS 09.0037X		⟨ II 3G Ex nA [ic] IIC T4
Directive conformity EN 60079-0, EN 60079-11, EN 60079-15 International approvals EVS 09.0037X	Electrical isolation	
Directive 94/9/EC EN 60079-0, EN 60079-11, EN 60079-15 International approvals ENS 09.0037X	Output/power supply, internal bus	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
International approvals BVS 09.0037X	Directive conformity	
IECEx approval BVS 09.0037X	Directive 94/9/EC	EN 60079-0, EN 60079-11, EN 60079-15
	International approvals	
General information	IECEx approval	BVS 09.0037X
	General information	

Technical data	LB4005A
System information	The module has to be mounted in appropriate backplanes (LB9***) in Zone 2 or outside hazardous areas. Here, the corresponding declaration of conformity has to be observed. For use in hazardous areas (e.g. Zone 2 or Zone 22) the module must be installed in an appropriate enclosure.
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.