Features

- 1-channel
- · Outputs with plug-in Ex e terminals
- Installation in suitable enclosures in Zone 1
- Analog output module for 0/4 mA ... 20 mA
- HART communication via field bus or service bus
- Simulation mode for service operations (forcing)
- · Line fault detection (LFD)
- · Output with watchdog
- · Permanently self-monitoring
- Up to SIL2 acc. to IEC 61508
- Module can be exchanged under voltage (hot swap)

Function

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

Open and short circuit line faults are detected.

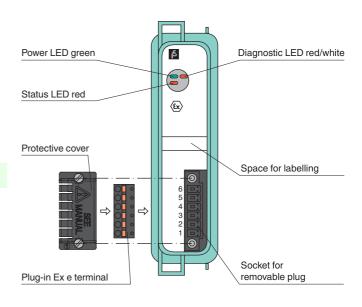
The output can be switched off via a contact. This can be used for bus-independent safety applications.

The device is supplied with plug-in Ex e terminals and protective cover.

The output is galvanically isolated from the bus and the power supply.

Assembly

Front view

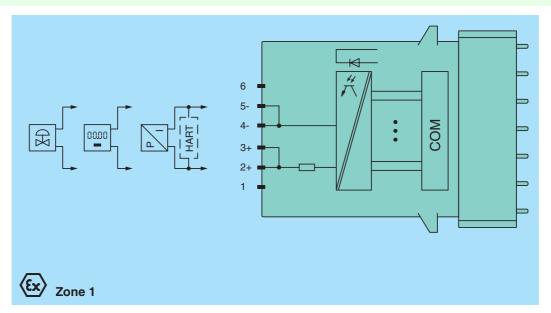






SIL2

Connection



Sackpione bus Connection Alacted voltage Un 12 V DCC , only in connection with the power supplies FB82** O S W Power toos O S W Power commotion 1W Commendation Interface Discipline bus Interface Interface Discipline bus Interface Interface Only	Supply		
	•••		haalislana hiia
Power Desert De			·
Name	ū	U _n	
Internal bus Commodition Interface Manufacturer-appecific bus to standard com unit Output Namber of channels Statistic field devices Commection United 12/3+, 4/8- Current Output Outpu	Power loss		
Contention Interface	Power consumption		1 W
Interface Objety Number of channels 1 Suitable individuos proportional values, iP conventry, local indicators Connection channel is 2.9+, 4.5= Current 0, 2.5 mA short-circuit protected Connection C	Internal bus		
Number of channels Suitable field devices Connection Short-circuit Connection Short-circuit Connection Connec	Connection		backplane bus
Number of channels 1 1 2 2 2 2 2 2 2 2	Interface		manufacturer-specific bus to standard com unit
Number of channels 1 1 2 2 2 2 2 2 2 2	Output		
Suitable field devices Connection Short-circuit Open-circuit Open-circuit Open-circuit Conference Connection C	•		1
Connection channel I: 2/3+, 4/5- (Journal Load 25 m & short-circuit protected Load 750 Ω max. Load tild detection 25 m & short-circuit protected Ex works settings - 50 Ω configurable between 0 26 m A Machadog wishin 0.5 s the device goes in safe state, e.g., after loss of communication Provision After calibration After calibration 0.1 % of the signal range at 20 °C (88 °F) Influence of ambient temperature Refresh time Refresh time 100 ms Influence of ambient temperature Power LED (P) green: supply LED indicator Power LED (P) green: supply Discotting Power LED (P) green: supply Discotting communication error , white: fixed parameter set (parameters from com unit are ignored), white fisshing: requests parameters from com unit set (parameters from com unit set (parameter) and parameters f			
Current 0 28 mA short-circuit protected Load 750 Ω max. Lime fault detection can be switched on/off for each channel via configuration tool , configurable via configuration tool , configuration tool , configurable via configuration tool , configurable via configuration tool , configuration			
Line fault detection can be switched onlott for each channel via configuration tool , configurable via configuration tool Short-circuit Exwists settings: < 50 Ω configurable between 0 26 mA Watchdog deviation of preset output value > 0.5 mA Watchdog within 0.5 s the device goes in safe state, e.g., after loss of communication Transfer characteristics Deviation O.1% of the signal range at 20 °C (68 °F) Influence of ambient temperature 100 ms Influence on Influence on Influence of ambient temperature 100 ms Influence on Influence on Influence of ambient temperature 100 ms Influence on Influence on Influence of ambient temperature 100 ms Influence on In			
Line fault detection Short-circuit Can be switched on/off for each channel via configurable via configuration tool Ext works settings < 5.0 Ω configurable between 0 26 mA dovidation of present output value > 0.5 mA within 0.5 s the device goes in safe state, e.g. after loss of communication Transfer characteristics Deviation After calibration Influence of ambient temperature Perferesh time Indicators/settings LED indicator Dome LED (P) green: supply Diagnostic LED (P) red: module fault , red flashing: communication error , white: fixed parameter set (parameters from com unit are ignored), white flashing requests parameters from com unit are ignored), white flashing requests parameters from com unit strains (LID (I) red: line fault (lead breakage or harbor circuit) optional mechanical coding via front socket Directive conformity			·
Short-circuit Department of the state of the			
Open-circuit deviation of preset output value > 0.5 mA within 0.5 s the device goes in safe state, e.g. after loss of communication Transfer characteristics Deviation			
Watchlog within 0.5 s the device goes in safe state, e.g. after loss of communication Transfer characteristics One vicition Deviation 0.1 % of the signal range at 20 °C (68 °F) Influence of ambient temperature 100 ms Refresh time 100 ms Indicators/settings Power LED (P) green: supply LED indicator Power LED (P) green: supply Disposable LED (r) red: module fault, red flashing: communication error, white: fixed parameters et (gramateters from corn unit are laynored), white flashing: requests parameters from corn unit Status LED (f) red: module fault, red flashing: communication error, white: fixed parameter set (gramateters from corn unit are laynored), white flashing: requests parameters from corn unit Status LED (f) red: module fault, red flashing: communication error, white: fixed parameter set (gramateters from corn unit are laynored), white flashing: requests parameters from corn unit Status LED (f) red: module fault, red flashing: communication error, white: fixed parameter set (gramateters from corn unit status legistry). Coding Power LED (P) green: supply Directive conformity Power LED (P) green: supply Directive conformity Power LED (P) green: supply Directive conformity Power LED (P) green: supply Properties and control of the supplementation of the supplementa	Short-circuit		Ex works settings: $< 50 \Omega$ configurable between 0 26 mA
Transfer characteristics	Open-circuit		deviation of preset output value > 0.5 mA
Deviation After calibration 0.1 % of the signal range at 20 °C (88 °F) Influence of ambient temperature 0.1 % /10 K of the signal range 0.1 % /10 K of the signal ra	Watchdog		within 0.5 s the device goes in safe state, e.g. after loss of communication
After calibration 0.1 % of the signal range at 20 °C (68 °F) 0.1 % 10 K of the signal range	Transfer characteristics		
Influence of ambient temperature 20.1 %/10 K of the signal range 100 ms 100	Deviation		
Influence of ambient temperature 20.1 %/10 K of the signal range 100 ms 100	After calibration		0.1 % of the signal range at 20 °C (68 °F)
Refrosh time 100 ms Indicators/settings LED indicator LED indicator Diagnostic LED (I) rect: module fault, red flashing: communication error, white: fixed parameter set (parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit status LED (1) rect: line fault (lead breakage or short circuit) Directive conformity		erature	
New LED Indicators Settings LED Indicators Power LED (P) green: supply Diagnostic LED (I) (Prect: module fault; red flashing: communication error, white: fixed parameters set (parameters from com unit are ignored), white flashing: requests parameters from com unit Status LED (I) red: line fault (lead breakpage or short circuit)	·		
LED indicator Power LED (P) green: supply Diagnostic LED (I) red: module fault , red flashing: communication error , white: fixed parameters et (parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored), white flashing: requests parameters from com unit are ignored). Description of parameters parameters from com unit are ignored), with flashing: requests parameters from com unit are ignored. Parameters from com unit are ignored parameters from com unit are ignored. Parameters parameters from com unit are ignored. Parameters parameters from com unit are ignored. Parameters parameters			100 1113
Diagnostic LED (I) red: module fault , red flashing: communication error , white: fixed parameter set (parameters from com unit are ignored), white (lashing: requests parameters from com unit are ignored), white (lashing: requests parameters from com unit are ignored), white (lashing: requests parameters from com unit are ignored), white (lashing: requests parameters from com unit are ignored), white (lashing: requests parameters from com unit status LED (I) red: line fault (lead breakage or short circuit) Directive conformity			Device LED (D) green supply
Cariameters from com unit are ignored), white flashing: requests parameters from com unit Status LED (1) recit in feat It (lead breakage or short circuit)	LED Indicator		
Status LED (1) red: line fault (lead breakage or short circuit) Coding			
Coding optional mechanical coding via front socket Directive conformity Electromagnetic compatibility Directive 2004/108/EC EN 61326-1:2006 Conformity Electromagnetic compatibility NE 21:2007 Degree of protection IEC 60529:2000 Environmental test EN 60068-2-14:2009 Shock resistance EN 60068-2-14:2009 Vibration resistance EN 60068-2-42:2003 Belative humidity EN 60068-2-78:2001 Ambient conditions EN 60068-2-78:2001 Ambient temperature -20 60 °C (-4 140 °F) Storage temperature -25 85 °C (-13 185 °F) Relative humidity 95 % non-condensing Shock resistance per direction 100 Vibration resistance frequency range 5 500 Hz, amplitude 50 m/s², number of shock directions 6, number of shock 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 IP20 (module), a separate housing is required acc. to the system descriptio			
Directive conformity	Coding		The state of the s
Electromagnetic compatibility Directive 2004/108/EC			optional modificationing via none society
Directive 2004/10/EC	•		
Electromagnetic compatibility		y	EN 04000 4-0000
Electromagnetic compatibility NE 21:2007 Degree of protection IEC 60529:2000 Environmental test EN 60068-2-14:2009 Shock resistance EN 60068-2-27:2009 Vibration resistance EN 60068-2-22:000 Damaging gas EN 60068-2-42:2003 Relative humidity EN 60068-2-42:2003 Ambient conditions Feature humidity Ambient temperature -20 60 °C (-4 140 °F) 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/s², 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 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 Bernection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass 2x 10 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in conn			EN 61326-1:2006
Degree of protection IEC 60529:2000	•		
Environmental test		/	NE 21:2007
Shock resistance EN 60068-2-27:2009 Vibration resistance EN 60068-2-6:2008 Damaging gas EN 60068-2-42:2003 Relative humidity EN 60068-2-78:2001 Ambient conditions FN Ambient temperature -20 60 °C (-4 140 °F) Storage temperature -25 85 °C (-13 185 °F) Felative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s², number of shock directions 6, number of shocks per direction 100 Vibration resistance shock type I, shock duration 11 ms, shock amplitude 5 m/s², 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Per (module), a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas BVS 11 ATEX E 093 X, for addi	Degree of protection		IEC 60529:2000
Vibration resistance EN 60068-2-6:2008 Damaging gas EN 60068-2-42:2003 Relative humidity EN 60068-2-78:2001 Ambient conditions Ambient temperature Ambient temperature -20 60 °C (-4 140 °F) 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/s², 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications P20 (module), a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas BVS 11 ATEX E 093 X, for additional certificates see www.pepperl-fuchs.com Group, category, type of protection EN 60079-0:2009 Electrical isolation Safe electrical isolation acc. to EN 60079-11:2007, voltage peak value 375 V	Environmental test		EN 60068-2-14:2009
Damaging gas EN 60068-2-42:2003 Relative humidity EN 60068-2-78:2001 Ambient conditions -20 60 °C (-4 140 °F) 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/s², 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Pegree of protection Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas BVS 11 ATEX E 093 X, for additional certificates see www.pepperl-fuchs.com © Il 2 G Ex db eb IlC T4 Electrical isolation EN 60079-0:2009 Electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive 94/9/EC EN 60079-7:2007 EN 60079-7:2007 EN 60079-7:2007	Shock resistance		EN 60068-2-27:2009
Relative humidity EN 60068-2-78:2001 Ambient conditions -20 60 °C (-4 140 °F) 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/s², 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications 1P20 (module), a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas BVS 11 ATEX E 093 X, for additional certificates see www.pepperl-fuchs.com EC-Type Examination Certificate Group, category, type of protection ⑤ II 2 G Ex db eb IIC T4 Electrical isolation Safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive eonformity EN 60079-1:2007 EN 60079-1:2007 EN 60079-7:2007	Vibration resistance		EN 60068-2-6:2008
Ambient conditions Ambient temperature -20 60 °C (-4 140 °F) 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/s², number of shock directions 6, number of shocks per direction 100 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Electrical isolation Output/power supply, internal bus Safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V EN 60079-1:2007 EN 60079-7:2007 EN 60079-7:2007	Damaging gas		EN 60068-2-42:2003
Ambient conditions Ambient temperature -20 60 °C (-4 140 °F) 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/s², number of shock directions 6, number of shocks per direction 100 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Electrical isolation Output/power supply, internal bus Safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V EN 60079-1:2007 EN 60079-7:2007 EN 60079-7:2007	Relative humidity		EN 60068-2-78:2001
Ambient temperature -20 60 °C (-4 140 °F) 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/s², 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module), a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection ⟨♠ II 2 G Ex db eb IIC T4 Electrical isolation Output/power supply, internal bus safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive conformity Directive 94/9/EC	·		
Storage temperature -25 85 °C (-13 185 °F) Relative humidity 95 % non-condensing shock tresistance shock type I, shock duration 11 ms, shock amplitude 50 m/s², number of shock directions 6, number of shocks per direction 100 Vibration resistance 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 plugs: 21 days in 25 ppm SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover approx. 350 g Dimensions Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection ENS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Electrical isolation Output/power supply, internal bus Directive conformity Directive enformity Directive 94/9/EC EN 60079-0:2009 EN 60079-7:2007 EN 60079-7:2007			-20 60 °C (-4 140 °F)
Relative humidity 95 % non-condensing Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s², number of shock directions 6, number of shocks per direction 100 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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection ⟨⟨⟨⟨⟩⟩⟩ Il 2 G Ex db eb Il C T4 Electrical isolation Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	•		· · · · · · · · · · · · · · · · · · ·
Shock resistance shock type I, shock duration 11 ms, shock amplitude 50 m/s², 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 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover approx. 350 g Dimensions Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Electrical isolation Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	* .		· · · · ·
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 SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection ⑤ II 2 G Ex db eb IIC T4 Electrical isolation Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009	· ·		· · · · · · · · · · · · · · · · · · ·
duration 10 sweeps 5 Hz - 100 Hz - 5 Hz Damaging gas for plugs: 21 days in 25 ppm SO₂, at 25 °C and 75 % rel. humidity, device G3 Mechanical specifications Degree of protection IP20 (module) , a separate housing is required acc. to the system description Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Group, category, type of protection ©xil 1 2 G Ex db eb IIC T4 Electrical isolation Output/power supply, internal bus safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Shock resistance		
Mechanical specificationsIP20 (module) , a separate housing is required acc. to the system descriptionConnectionEx e spring terminal with protective coverMassapprox. 350 gDimensions28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in)Data for application in connection with Ex-areasBVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.comGroup, category, type of protection☑ II 2 G Ex db eb IIC T4Electrical isolationOutput/power supply, internal bussafe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 VDirective 94/9/ECEN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Vibration resistance		
Mechanical specificationsIP20 (module) , a separate housing is required acc. to the system descriptionConnectionEx e spring terminal with protective coverMassapprox. 350 gDimensions28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in)Data for application in connection with Ex-areasBVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.comGroup, category, type of protection☑ II 2 G Ex db eb IIC T4Electrical isolationOutput/power supply, internal bussafe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 VDirective 94/9/ECEN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Damaging gas		for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3
Degree of protection IP20 (module) , a separate housing is required acc. to the system description Ex e spring terminal with protective cover approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Electrical isolation Output/power supply, internal bus safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive 94/9/EC EN 60079-0:2009 EN 60079-7:2007 EN 60079-7:2007	Manhaulani anasidi astiana		
Connection Ex e spring terminal with protective cover Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection ⟨♠ II 2 G Ex db eb IIC T4 Electrical isolation Output/power supply, internal bus safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive 94/9/EC EN 60079-0:2009	Mechanical specifications		
Mass approx. 350 g Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection W II 2 G Ex db eb IIC T4 Electrical isolation Safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive conformity EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	•		IP20 (module), a separate housing is required acc. to the system description
Dimensions 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Electrical isolation Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-7:2007 EN 60079-7:2007	Degree of protection		
Data for application in connection with Ex-areas BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com EC-Type Examination Certificate BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection It 2 G Ex db eb IIC T4 Electrical isolation Safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V Directive conformity EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection		Ex e spring terminal with protective cover
EC-Type Examination Certificate Group, category, type of protection Electrical isolation Output/power supply, internal bus Directive 94/9/EC EN 60079-0:2009 EN 60079-7:2007 EN 60079-7:2007	Degree of protection Connection Mass		Ex e spring terminal with protective cover approx. 350 g
Group, category, type of protection Electrical isolation Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in con	nection	Ex e spring terminal with protective cover approx. 350 g
Electrical isolation Output/power supply, internal bus safe electrical isolation acc. to EN 60079-11:2007, voltage peak value 375 V Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in con with Ex-areas		Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in)
Output/power supply, internal bus Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in con with Ex-areas EC-Type Examination Certific	cate	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com
Directive conformity Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in conwith Ex-areas EC-Type Examination Certific Group, category, type of p	cate	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com
Directive 94/9/EC EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in conwith Ex-areas EC-Type Examination Certific Group, category, type of p Electrical isolation	cate rotection	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com (x) II 2 G Ex db eb IIC T4
EN 60079-1:2007 EN 60079-7:2007	Degree of protection Connection Mass Dimensions Data for application in conwith Ex-areas EC-Type Examination Certific Group, category, type of p Electrical isolation	cate rotection	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com (x) II 2 G Ex db eb IIC T4
	Degree of protection Connection Mass Dimensions Data for application in conwith Ex-areas EC-Type Examination Certification, category, type of pelectrical isolation Output/power supply, inter-	cate rotection	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com (x) II 2 G Ex db eb IIC T4
	Degree of protection Connection Mass Dimensions Data for application in conwith Ex-areas EC-Type Examination Certification, category, type of pelectrical isolation Output/power supply, interestive conformity	cate rotection	Ex e spring terminal with protective cover approx. 350 g 28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in) BVS 11 ATEX E 093 X , for additional certificates see www.pepperl-fuchs.com (x) II 2 G Ex db eb IIC T4 safe electrical isolation acc. to EN 60079-11:2007 , voltage peak value 375 V EN 60079-0:2009 EN 60079-1:2007



System information	The module has to be mounted in appropriate backplanes (FB92**) in Zone 1, 2, or outside hazardous areas. Here, the corresponding EC-Type Examination Certificate has to be observed.
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