

**Features**

- 8-channel
- Outputs with plug-in Ex e terminals
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Output with watchdog

**Function**

The device features 8 independent channels.

The device can be used to switch solenoids, sounders, or lamps.

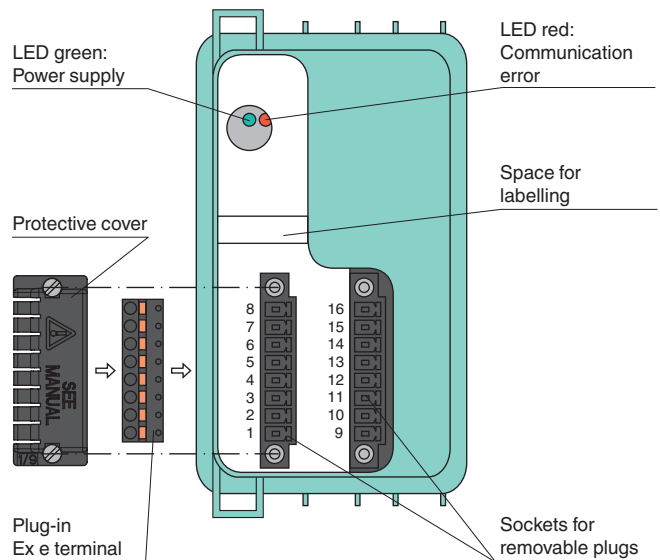
The device can perform general switching operations, such as switching auxiliary power circuits.

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

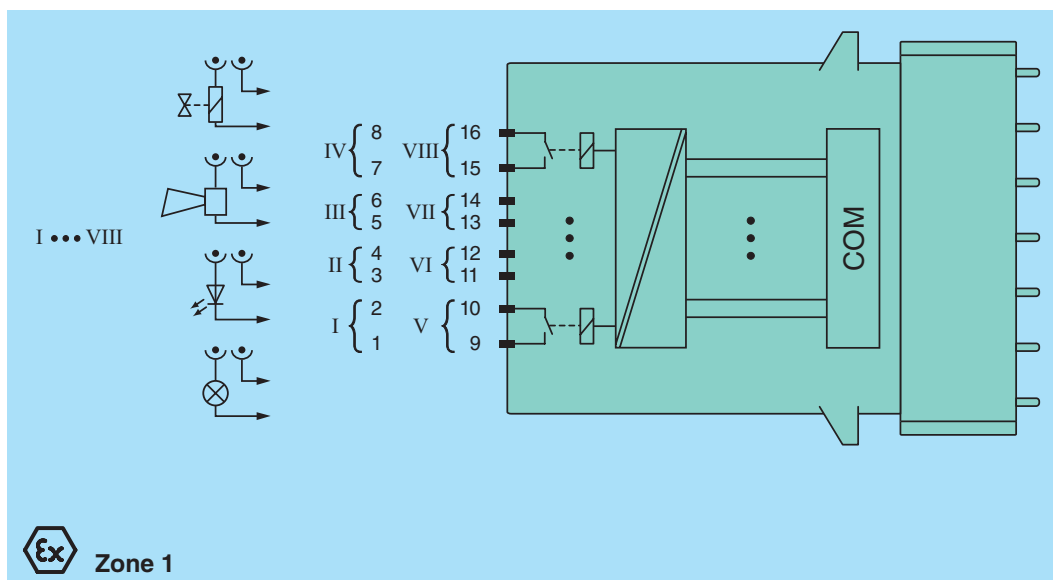
The outputs are galvanically isolated from the bus and the power supply.

**Assembly**

**Front view**



**Connection**



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

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<b>Slots</b>	
Occupied slots	2
<b>Supply</b>	
Connection	backplane bus
Rated voltage	$U_r$ 12 V DC , only in connection with the power supplies FB92**
Power dissipation	1.4 W
Power consumption	1.4 W
<b>Internal bus</b>	
Connection	backplane bus
Interface	manufacturer-specific bus to standard com unit
<b>Digital output</b>	
Number of channels	2
Field device interface	
Connection	Relay output
Connection	channel I: 1-2 NO; channel II: 3-4 NO; channel III: 5-6 NO; channel IV: 7-8 NO; channel V: 9-10 NO; channel VI: 11-12 NO; channel VII: 13-14 NO; channel VIII: 15-16 NO
Relay	
Switching voltage	24 V DC / AC
Switching current	1 A DC / AC resistive load
Switch power	30 VA / 30 W
Minimum load	1 V 1 mA
Electrical life	0.1 mio. cycles
Contact Material	AgPd gold plated
Response time	20 ms (depending on bus cycle time)
Watchdog	within 0.5 s the device goes in safe state, e.g. after loss of communication
<b>Indicators/settings</b>	
LED indication	LED green: supply LED red: communication fault
Coding	optional mechanical coding via front socket
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2006
<b>Conformity</b>	
Electromagnetic compatibility	
Degree of protection	IEC 60529:2000
Environmental test	EN 60068-2-14:2009
Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
Damaging gas	EN 60068-2-42:2003
Relative humidity	EN 60068-2-78:2001
<b>Ambient conditions</b>	
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 15 g, number of shocks 18
Vibration resistance	frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration $\pm$ 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration $\pm$ 1 mm/0.7 g; 90 minutes at each resonance
Damaging gas	designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>	
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. 750 g
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 inch)
<b>Data for application in connection with hazardous areas</b>	
EU-Type Examination Certificate	BVS 11 ATEX E 093 X
Marking	 II 2 G Ex db eb IIC T4
Galvanic isolation	
Output/power supply, internal bus	safe electrical isolation acc. to EN 61010-1:2010
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007
<b>International approvals</b>	

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ATEX approval	BVS 11 ATEX E 093X
INMETRO	Brazil: TÜV 14.1599X
EAC approval	Russia: RU C-IT.MIII06.B.00129
Marine approval	
Lloyd Register	15/20021
American Bureau of Shipping	T1450280/UN
Bureau Veritas Marine	22449/B0 BV
<b>General information</b>	
System information	The module has to be mounted in appropriate backplanes (FB92**) in Zone 1, 2, or outside hazardous areas. Observe the corresponding EC-type examination certificate.
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

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