

Relay output

FB6306B2



- 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.

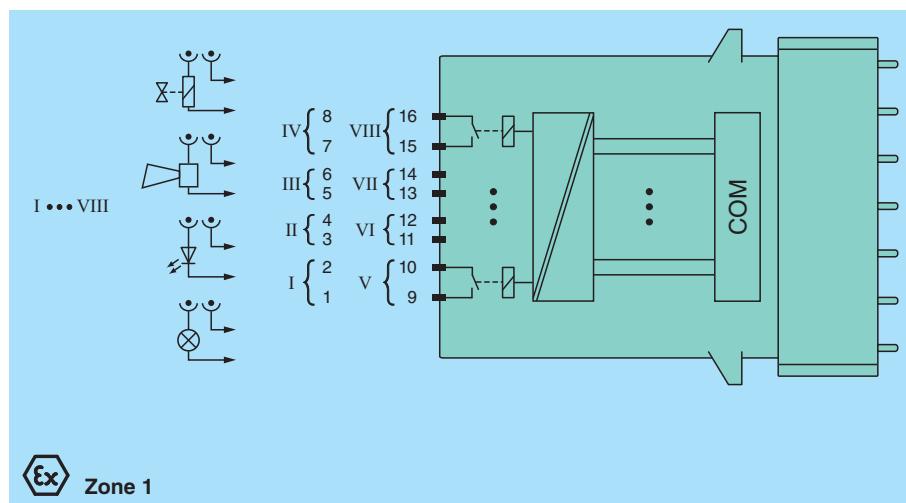
The device can be used to switch solenoids, sounders, or lamps.

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.

Connection



Technical Data

Slots

Occupied slots	2
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Supply

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	

Internal bus

Connection	backplane bus
Interface	manufacturer-specific bus to standard com unit

Digital output

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

Technical Data

Number of channels	8
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
Indicators/settings	
LED indication	LED green: supply LED red: communication fault
Coding	optional mechanical coding via front socket
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Conformity	
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 60068-2-6:2008
Damaging gas	EN 60068-2-42:2003
Relative humidity	EN 60068-2-78:2001
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 15 g, number of shocks 18
Vibration resistance	frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 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
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. 750 g
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 inch)
Data for application in connection with hazardous areas	
EU-type examination certificate	BVS 11 ATEX E 093 X
Marking	Ex 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 IEC 60079-0:2018+AC:2020 EN 60079-1:2014 EN 60079-7:2015+A1:2018
International approvals	
ATEX approval	BVS 11 ATEX E 093X

Technical Data

General information

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 www.pepperl-fuchs.com.

Assembly

Front view

