

Digital Output with Shutdown Input

FB6308B2



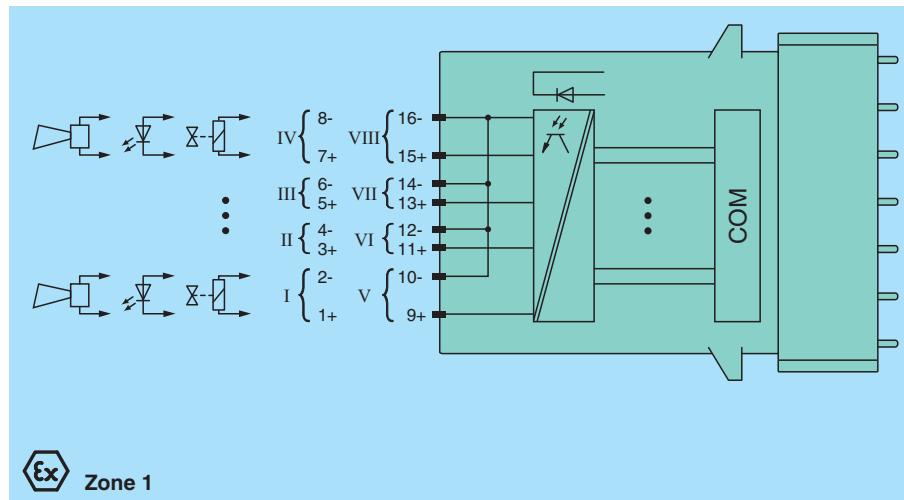
- 8-channel
- Outputs with plug-in Ex e terminals
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)
- Line fault detection (LFD)
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
-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

SIL 2

Function

The device features 8 independent channels.
The device can be used to drive low power solenoids, sounders, or LEDs.
Open and short circuit line faults are detected.
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.
The outputs can be switched off via a contact. This can be used for bus-independent safety applications.

Connection



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Technical Data

Slots

Occupied slots 2

Supply

Connection backplane bus

Rated voltage U_r 12 V DC, only in connection with the power supplies FB92**

Power dissipation 2.35 W

Power consumption 2.35 W

Internal bus

Connection backplane bus

Interface manufacturer-specific bus to standard com unit

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

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Technical Data

Digital output

Number of channels	8	
Suitable field devices		
Field device	Solenoid Valve	
Field device [2]	audible alarm	
Field device [3]	visual alarm	
Connection	channel I: 1+, 2-; channel II: 3+, 4-; channel III: 5+, 6-; channel IV: 7+, 8-; channel V: 9+, 10-; channel VI: 11+, 12-; channel VII: 13+, 14-; channel VIII: 15+, 16-	
Current limit	I_{max}	8 mA
Open loop voltage	U_s	20 V
Line fault detection	can be switched on/off for each channel via configuration tool	
Test current		0.33 mA
Short-circuit		< 300 Ω
Open-circuit		> 50 k Ω
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: line fault, red flashing: communication error
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	II 2 G Ex db eb IIC T4
Galvanic isolation	
Output/power supply, internal bus	safe electrical isolation acc. to EN 60079-11:2007, voltage peak value 375 V
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 EN 60079-1:2014 EN 60079-7:2015+A1:2018

Technical Data

International approvals

ATEX approval

BVS 11 ATEX E 093X

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

