

Features

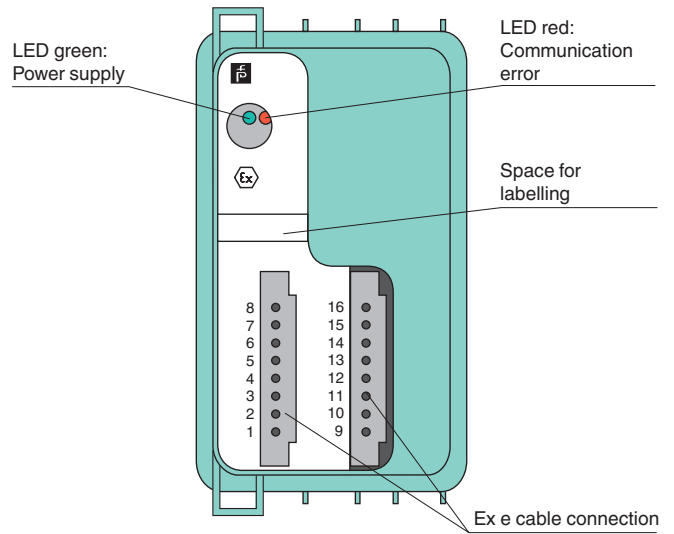
- 4-channel
- Outputs wired to Ex e terminals
- Installation in suitable enclosures in Zone 1 or Zone 21
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Output with watchdog
- Module can be exchanged under voltage (hot swap)

Function

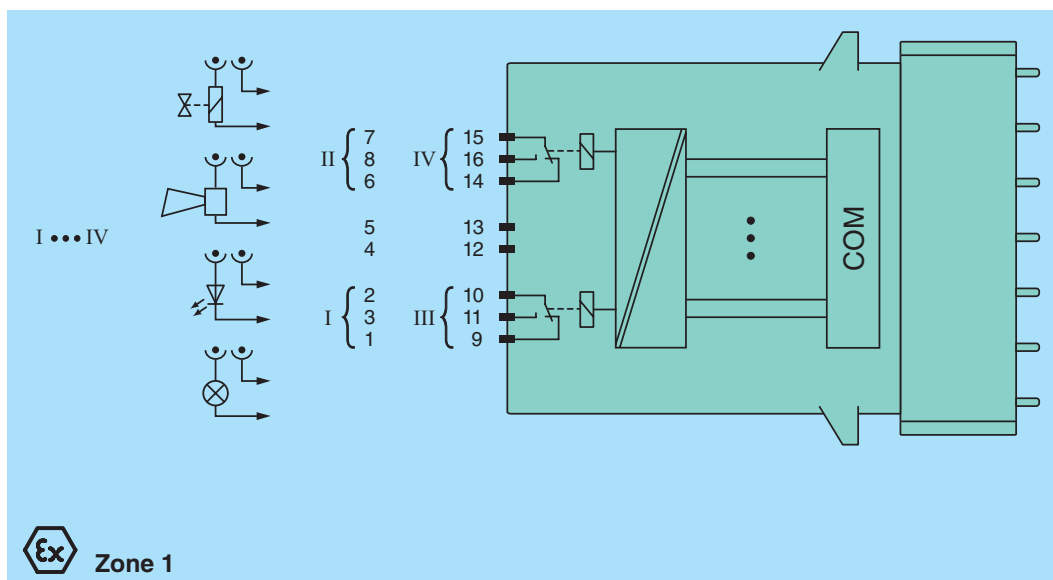
The device features 4 independent channels.
 The device can be used to switch solenoids, sounders, or lamps.
 The device can perform general switching operations, such as switching auxiliary power circuits.
 The outputs are galvanically isolated from the bus and the power supply.

Assembly

Front view



Connection



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

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Supply		
Connection		backplane bus
Rated voltage	U _n	12 V DC , only in connection with the power supplies FB92**
Power consumption		1.2 W
Internal bus		
Connection		backplane bus
Interface		manufacturer-specific bus to standard com unit
Output		
Number of channels		4
Connection		wire ends 1/9 (white), 2/10 (brown), 3/11 (green), 4/12 (yellow), 5/13 (grey), 6/14 (pink), 7/15 (blue), 8/16 (red)
Minimum load		1 V , 1 mA
Relay		
Switching voltage		DC: 30 V , AC: 230 V
Switching current		1 A DC / AC resistive load
Switching power		30 W , AC: 250 VA
Electrical life		0.1 mio. cycles
Response time		20 ms (depending on bus cycle time)
Contact Material		AgPd gold plated
Watchdog		within 0.5 s the device goes in safe state, e.g. after loss of communication
Indicators/settings		
LED indicator		LED green: supply LED red: communication fault
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1
Low voltage		
Directive 2006/95/EC		EN 61010-1
Conformity		
Electromagnetic compatibility		NE 21
Degree of protection		IEC 60529
Environmental test		EN 60068-2-14
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Damaging gas		EN 60068-2-42
Relative humidity		EN 60068-2-56
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/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		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		wire ends or shielded cable tail wiring connection: separately covered Ex e terminals required
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		
EC-Type Examination Certificate		PTB 97 ATEX 1074 U
Group, category, type of protection		Ⓔ II 2 G Ex d IIC Gb
Electrical isolation		
Output/power supply, internal bus		safe electrical isolation acc. to EN 61010-1
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2009 EN 60079-1:2007 EN 60079-11:2007 EN 60079-26:2007 EN 61241-11:2006
International approvals		
ATEX approval		BVS 11 ATEX E 093X
EAC approval		Russia: RU C-IT.MIII06.B.00129
Marine approval		

Release date 2016-09-01 11:54 Date of issue 2016-09-01 t34935_eng.xml

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

Lloyd Register	15/20021
DNV GL Marine	TAA0000034
American Bureau of Shipping	T1450280/UN
Bureau Veritas Marine	22449/B0 BV
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 .

Versions

Model number	Options
FB6305B200	relay output, 230 V AC, 1 A (ohmic load), wire ends, 200 cm
FB6305BS200	relay output, 230 V AC, 1 A (ohmic load), shielded cable tail, 200 cm

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