

Features

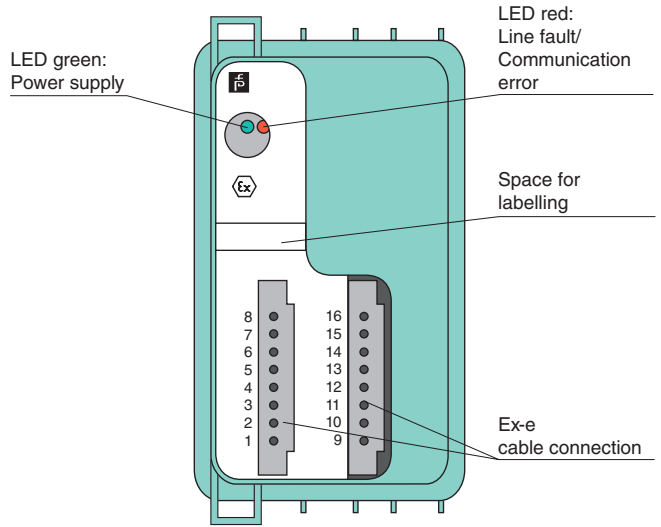
- 8-channel
- Outputs wired to Ex e terminals
- Installation in suitable enclosures in Zone 1 or Zone 21
- Line fault detection (LFD)
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Output with watchdog

Function

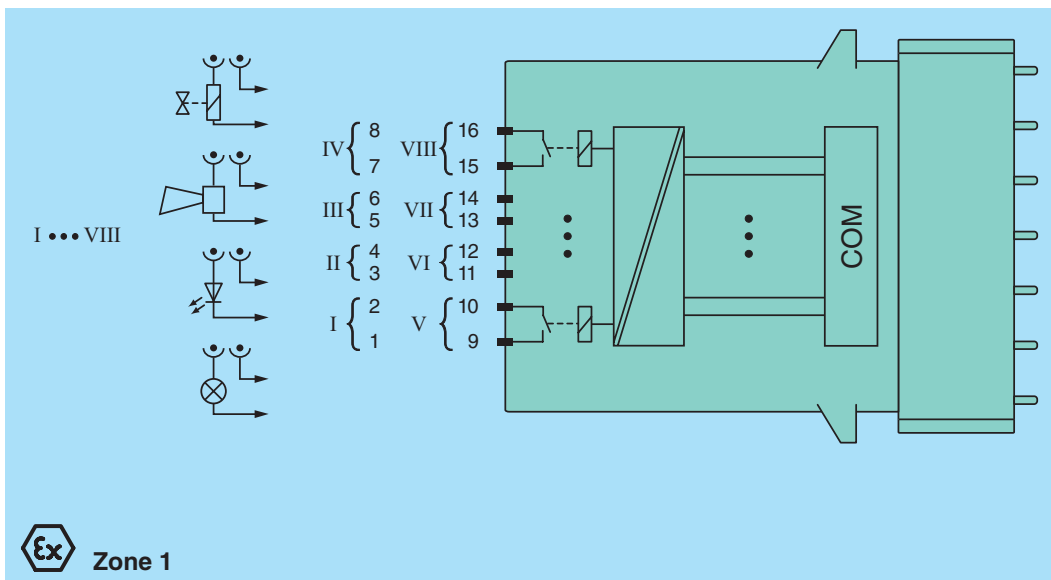
The relay output features 8 independent channels.
 The relay output can be used to switch solenoids, sounders, or lamps.
 It can also perform general switching operations, e.g. to switch auxiliary power circuits.
 The outputs are galvanically isolated from the bus and the power supply (EN 61010-1).

Assembly

Front view



Connection



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Supply	
Connection	backplane bus
Rated voltage	12 V DC , only in connection with the power supplies FB92**
Power consumption	1.6 W
Internal bus	
Connection	backplane bus
Interface	manufacturer specific bus to standard Com Unit/gateway
Output	
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)
Switching voltage	24 V DC , 24 V AC
Switching current	1 A , AC/DC, resistive load
Switching power	30 W , 30 VA
Minimum load	min. 1 V , min. 1 mA
Response time	approx. 20 ms (depending on bus cycle time)
Electrical life	0.5 Mio. cycles
Contact Material	AgPd gold plated
Watchdog	output off 0.5 s after serious fault
Indicators/settings	
LED indicator	LED green: supply LED red: communication fault
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
Protection degree	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	for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3
Mechanical specifications	
Protection degree	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 in)
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	PTB 97 ATEX 1074 U , PTB 97 ATEX 1075 (system) , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	⊕ II 2 G Ex d IIC
Electrical isolation	
Output/power supply, internal bus	safe electrical isolation acc. to EN 61010-1
Directive conformity	
Directive 94/9/EC	EN 60079-0 , EN 60079-1
International approvals	
IECEx approval	pending
General information	
System information	The module has to be mounted in appropriate backplanes and housings (FB92**) in Zone 1, 2, 21, 22 or outside hazardous areas (gas or dust). 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 .

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Versions

Model number	Options
FB6306B-80	relay output, 24 V AC/DC, 1 A (ohmic load), wire ends, 80 cm
FB6306B150	relay output, 24 V AC/DC, 1 A (ohmic load), wire ends, 150 cm
FB6306B200	relay output, 24 V AC/DC, 1 A (ohmic load), wire ends, 200 cm
FB6306BS200	relay output, 24 V AC/DC, 1 A (ohmic load), shielded cable tail, 200 cm