

Power supply

FB9205C



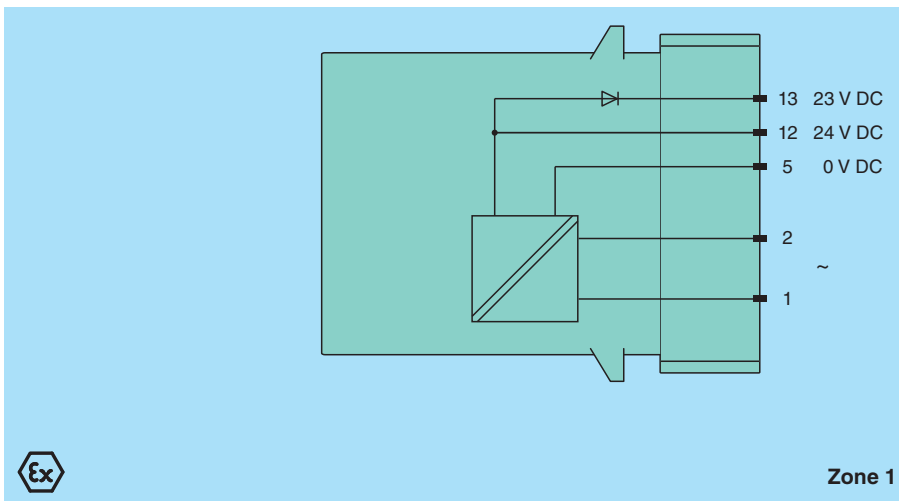
- Power supply for 100 - 230 V AC
- Suitable for the supply of FOL, field products (analyzers, level meters etc.)
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)
- Use two power supplies for redundancy
- Galvanic isolation to mains



Function

The power supply provides power for the I/O modules and com units mounted on the backplane. Input and output are galvanically isolated from each other (EN 60950-1).

Wiring Diagram



Technical Data

Supply	
Connection	wired to Ex e terminals
Rated voltage	U_r 100 ... 230 V AC
Power consumption	max. 45 VA
Inrush current	3.4 A (10 ms)
Input	
Input frequency	50 ... 60 Hz
Output	
Voltage	24 V DC +/- 3% (Connectors 5, 12) 23 V DC +/- 3% decoupled via diode (Connectors 5, 13)
Current	1.2 A
Indicators/settings	
LED indication	LED green: supply
Directive conformity	

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

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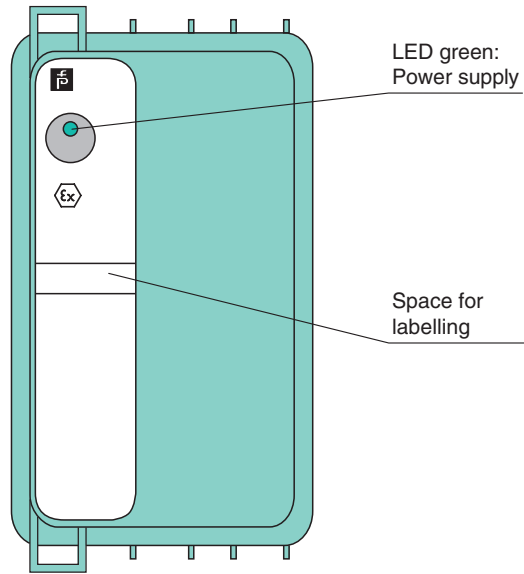
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Technical Data

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Low voltage	
Directive 2014/35/EU	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 60068-2-78
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
Mass	approx. 890 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	PTB 97 ATEX 1074 U
Marking	Ⓜ II 2 G Ex d IIC Gb
Galvanic isolation	
Output/power supply	EN 60950-1 (safety requirement < 60 V)
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 EN 60079-1:2014
International approvals	
ATEX approval	PTB 97 ATEX 1074 U
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



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