

Power supply

FB9206D



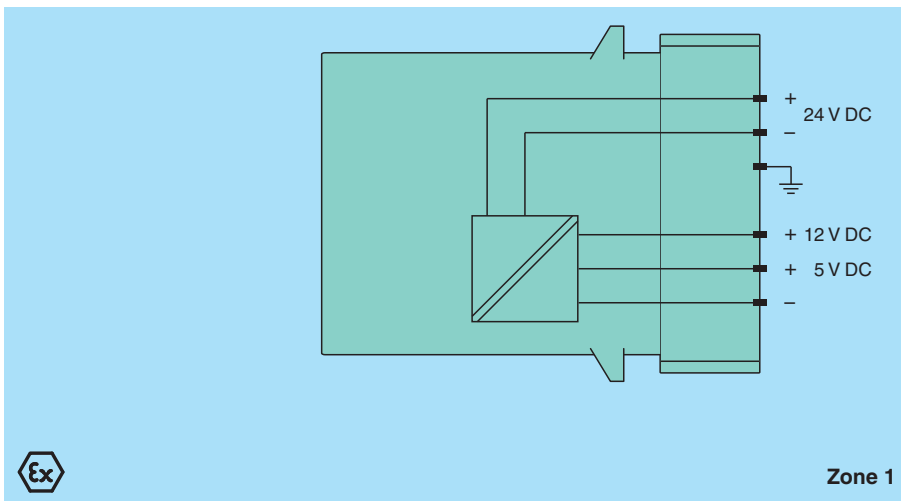
- Power supply for 24 V DC
- Suitable for the supply of 24 I/O modules and 1 bus coupler
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)



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).

Connection



Technical Data

Slots	
Bus coupler	2
I/O modules	>12, depending on the type
Supply	
Connection	wired to Ex e terminals via backplane
Maximum safe voltage U_m	60 V DC (SELV/PELV)
Input voltage range	U 18 ... 32 V DC (SELV/PELV)
Power dissipation	approx. 15 % of power consumption
Power consumption	max. 45 W parallel connection with other FB9206D (autom. power sharing)
Inrush current	1.5 A (10 ms)
Output	
Voltage	5.4 V DC +/- 5% , 12 V DC + 4/- 2%

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

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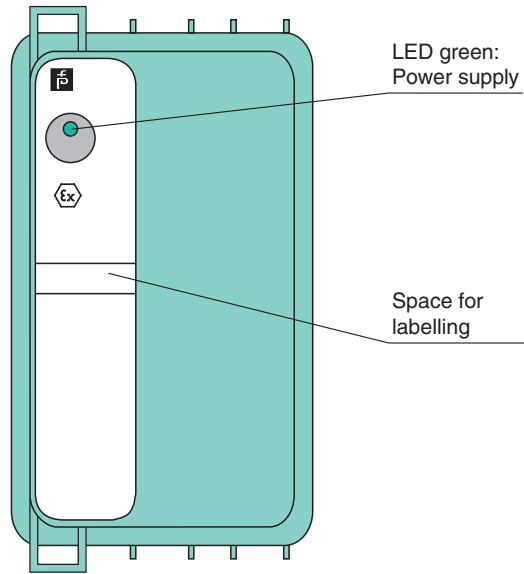
Technical Data

Power	$P_{5V} \leq 5.4 \text{ W}$, $P_{12V} \leq 39 \text{ W}$ - P_{5V}
Indicators/settings	
LED indication	LED green: OFF in case of loss of 24V or 12V or 5V
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1
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 $\pm 0.075 \text{ mm/1 g}$; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration $\pm 1 \text{ mm/0.7 g}$; 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. 820 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, external power supply SELV/PELV)
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	PTB 97 ATEX 1075
EAC approval	Russia: RU C-IT.MIII06.B.00129
Marine approval	
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 .

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Assembly

Front view



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