

Power supply

FB9215B2



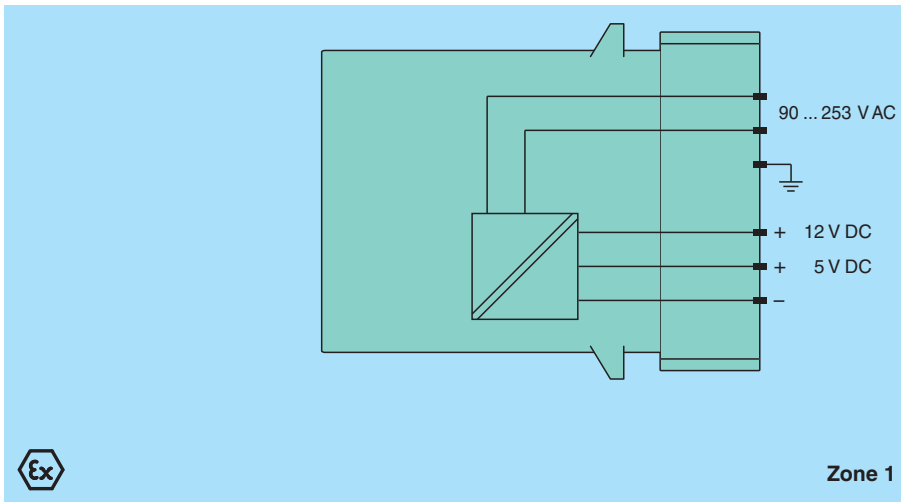
- Multi range power supply 90 ... 253 V AC
- Suitable for the supply of 24 I/O modules and 1 bus coupler
- Use two power supplies for redundancy
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)



Function

The power supply provides power for the I/O modules and Com Units mounted on the backplane. Power supplies can be connected in parallel to achieve redundancy. Input and output are galvanically isolated from each other. This power supply is a fully compatible replacement for FB9215 and FB9216.

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	253 V AC
Input	
Input voltage range	90 ... 253 V AC
Input frequency	50 ... 60 Hz
Inrush current (< 2 ms)	30 A max. (115 V AC) 50 A max. (230 V AC)
Current consumption	0.95 A (115 V AC) 0.6 A (230 V AC)

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

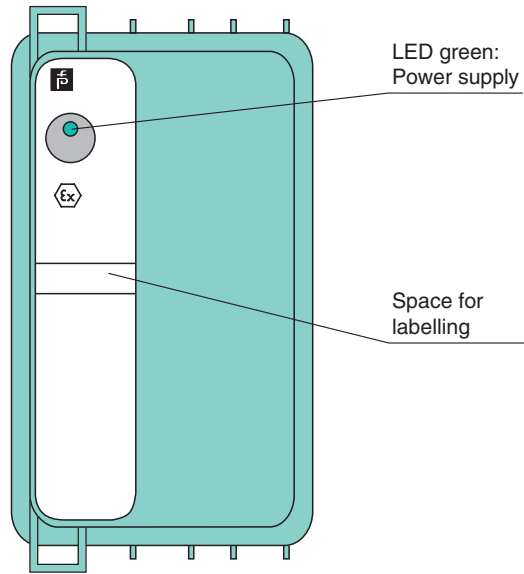
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Technical Data

Output	
Voltage	5.4 V DC +/- 5% , 12 V DC +/- 3%
Power	$P_{5V} \leq 5.4 \text{ W}$, $P_{12V} \leq 39 \text{ W} - P_{5V}$
Power dissipation	approx. 18 % of power consumption
Indicators/settings	
LED indication	LED green: OFF in case of loss of main power or internal voltages (12 V, 5.4 V)
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Low voltage	
Directive 2014/35/EU	EN 61010-1
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 $\pm 0.075 \text{ mm/1 g}$; 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. 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, external power supply SELV/PELV)
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 EN 60079-1:2014
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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