

Features

- 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.

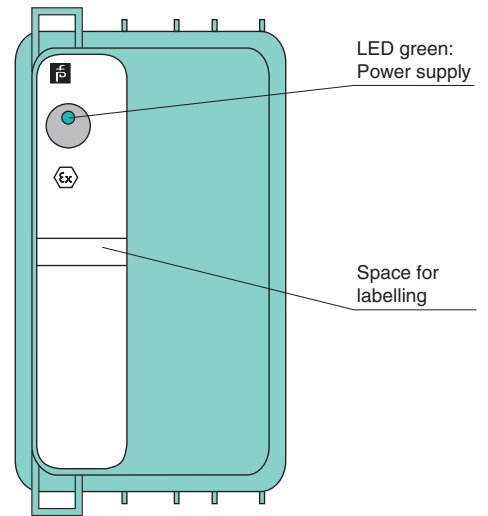
Power supplies can be connected in parallel to achieve redundancy.

Input and output are galvanically isolated from each other.

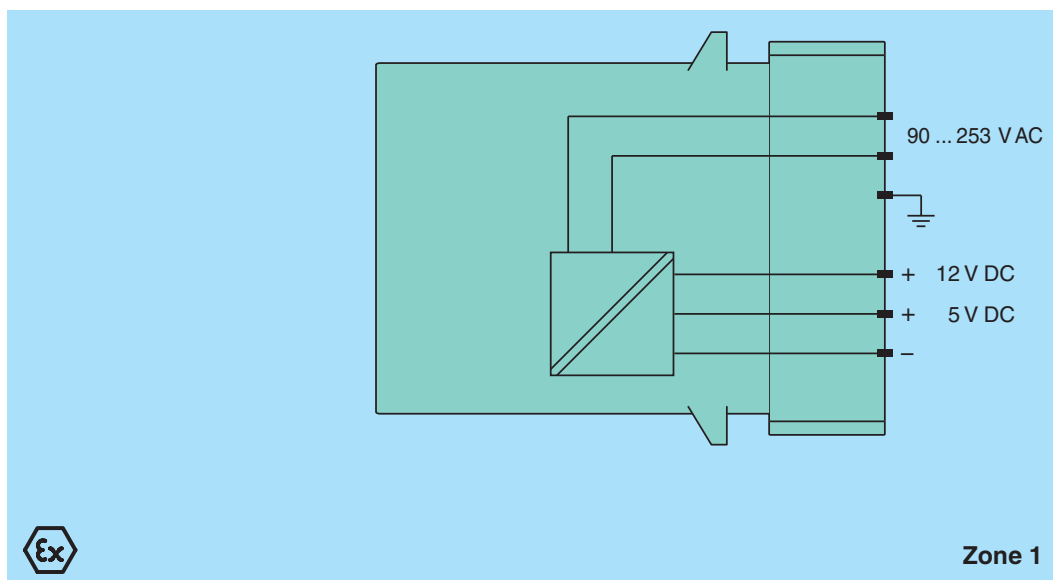
This power supply is a fully compatible replacement for FB9215 and FB9216.

Assembly

Front view



Connection



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

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|--|----------------|--|
| Supply | | |
| Connection | | wired to Ex e terminals via backplane |
| Maximum safe voltage | U _m | 253 V AC |
| Input voltage range | U | 90 ... 253 V AC |
| Power dissipation | | approx. 18 % of power consumption |
| Power consumption | | ≤ 47 W parallel connection with other FB9215B2 (autom. power sharing) |
| Inrush current (< 2 ms) | | 30 A max. (115 V AC) 50 A max. (230 V AC) |
| Input | | |
| Input frequency | | 50 ... 60 Hz |
| Output | | |
| Voltage | | 5.4 V DC +/- 5% , 12 V DC +/- 3% |
| Power | | P _{5V} ≤ 5.4 W, P _{12V} ≤ 39 W - P _{5V} |
| Indicators/settings | | |
| LED indicator | | 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 |
| 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 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 |
| 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 60079-0:2009 EN 60079-1:2007 EN 60079-11:2007 EN 60079-26:2007 EN 61241-11:2006 |
| International approvals | | |
| EAC approval | | Russia: RU C-IT.MIII06.B.00129 |
| Marine approval | | |
| Lloyd Register | | 15/20021 |
| 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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