



## Power supply

### FB9215B2

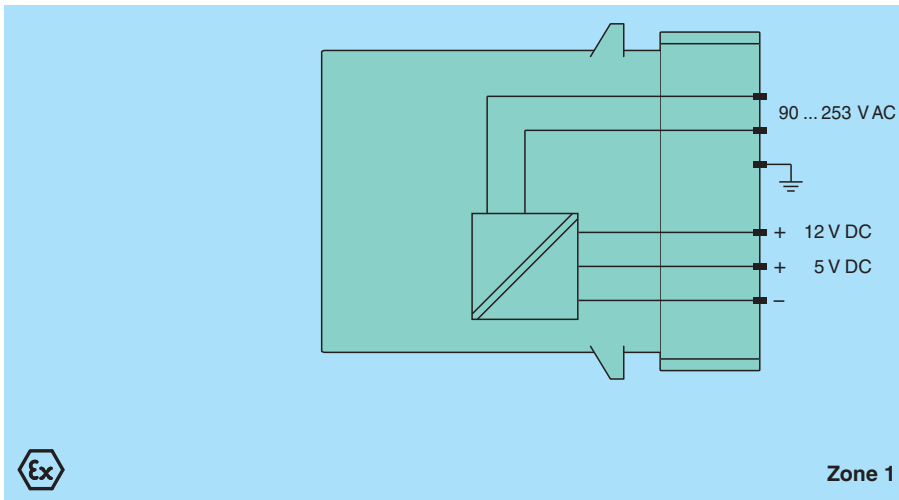
- Multi range power supply 90 ... 253 V AC
- Suitable for the supply of 24 I/O modules and 1 bus coupler
- Use two power supplies for redundancy
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)



## 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)

Release date: 2025-03-03 Date of issue: 2025-03-03 Filename: 271245\_eng.pdf

## Technical Data

<b>Output</b>		
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
<b>Indicators/settings</b>		
LED indication		LED green: OFF in case of loss of main power or internal voltages (12 V, 5.4 V)
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
Low voltage		
Directive 2014/35/EU		EN 61010-1
<b>Conformity</b>		
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
<b>Ambient conditions</b>		
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
<b>Mechanical specifications</b>		
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)
<b>Data for application in connection with hazardous areas</b>		
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
<b>International approvals</b>		
ATEX approval		PTB 97 ATEX 1074 U
IECEx approval		
IECEx marking		
<b>General information</b>		
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

Assembly

Front view

