



Power supply FB9206D3

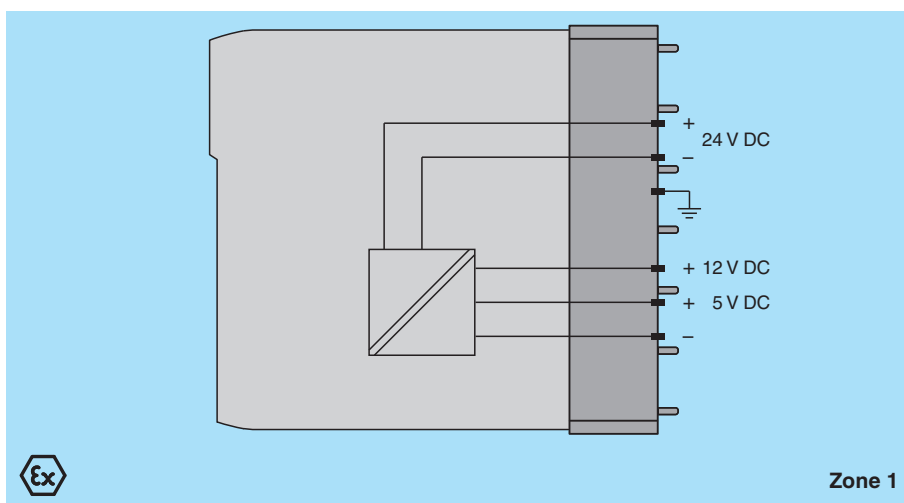
- Power supply for 24 V DC
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)



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 acc. to EN 61010-1.

Connection



Technical Data

Slots	
Occupied slots	2
Supply	
Connection	wired to Ex e terminals via backplane
Maximum safe voltage U_m	60 V DC (SELV/PELV) common mode
Input voltage range	U 18 ... 32 V DC (SELV/PELV)
Power dissipation	4.7 W at 100 % load 3.8 W at 50 % load
Power consumption	max. 44 W
Inrush current	6 A (30 ms) 15 A (20 μ s)
Output	
Voltage	5.4 V DC $\pm$ 5% , 12 V DC $\pm$ 2%

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

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Technical Data

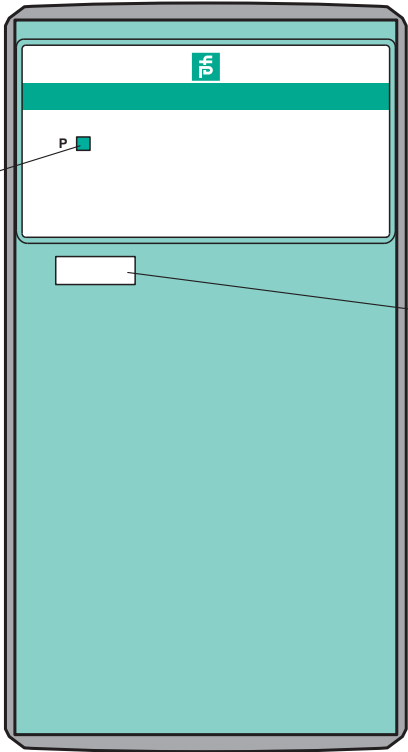
Power	P _{5V} ≤ 5.4 W, P _{12V} ≤ 39 W - P _{5V}	
Galvanic isolation		
Power supply/Output	basic insulation according to IEC/EN 61010-1, rated insulation voltage 60 V _{eff}	
Indicators/settings		
LED indication	LED green: OFF in case of loss of 24V or 12V or 5V	
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Galvanic isolation		EN 61010-1:2010
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		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 85 °C (-40 ... 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. 970 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		Presafe 19 ATEX 14059U
Marking		Ⓔ II 2G Ex db eb q IIC Gb
Wait time		wait time before removing the device: 7 min For further information see instruction manual.
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015+A1:2018
International approvals		
ATEX approval		Presafe 19 ATEX 14059U
IECEX approval		
IECEX certificate		IECEX PRE 19.0014U
IECEX marking		Ex db eb q IIC Gb
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

Power LED
green



Space for
labelling