

Power supply FB9206D3

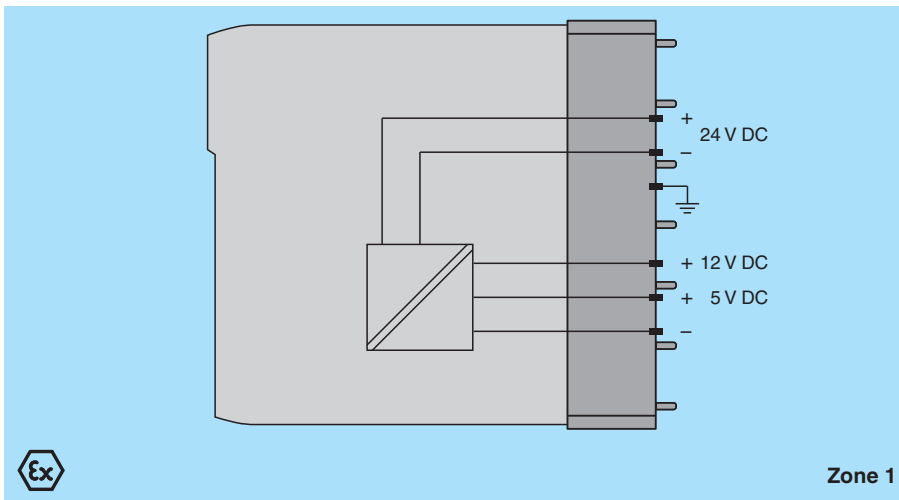
- Power supply for 24 V DC
- Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)



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 +/- 5% , 12 V DC + 4/- 2%

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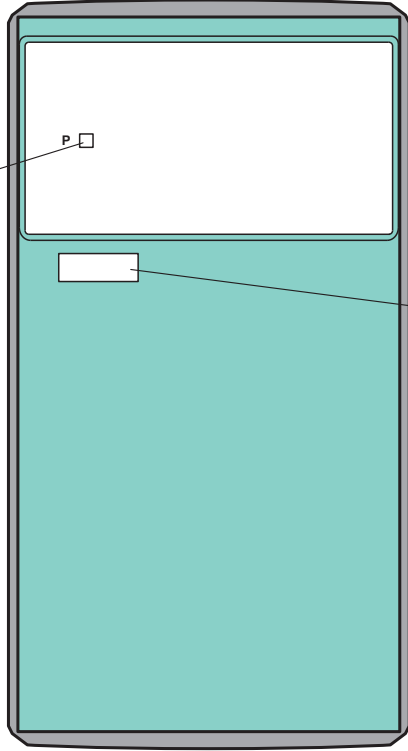
Technical Data

Power	$P_{5V} \leq 5.4 \text{ W}$, $P_{12V} \leq 39 \text{ W}$ - 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 $\pm 0.075 \text{ mm/1 g}$; 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. 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 .	

Assembly

Front view

Power LED
green



Space for
labelling