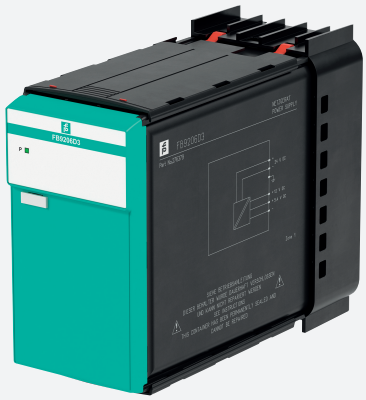


Power supply

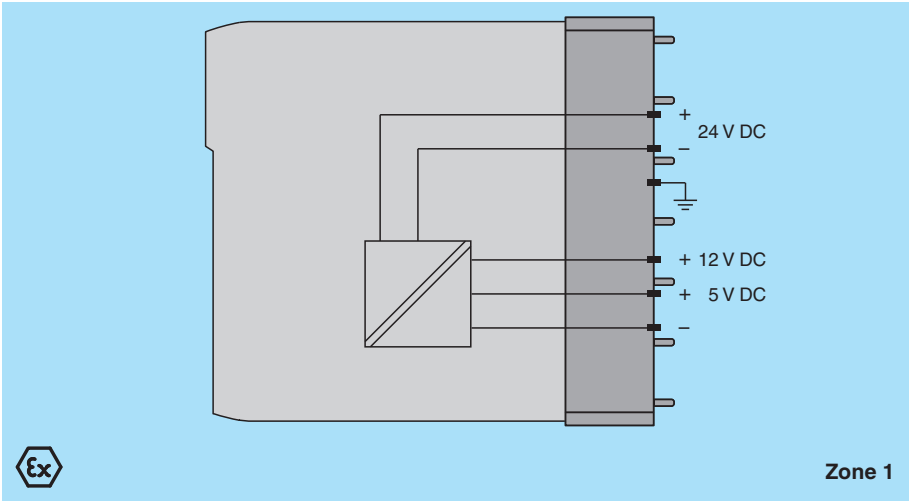
FB9206D3

- 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 µs)
Output		

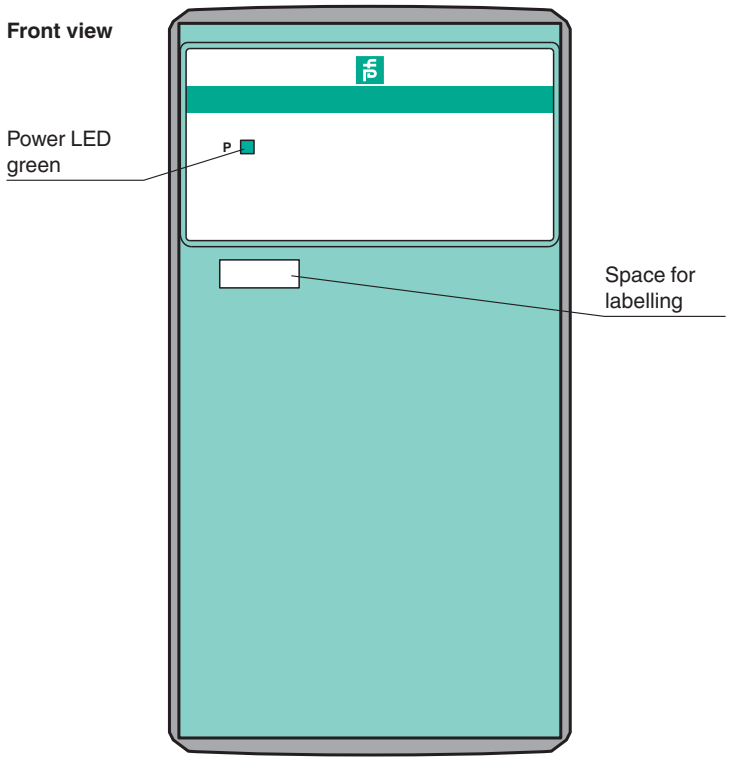
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Technical Data

Voltage	5.4 V DC +/- 5% , 12 V DC + 4/- 2%
Power	$P_{5V} \leq 5.4$ W, $P_{12V} \leq 39$ 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 60068-2-56
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	
Marking	⟨Ex⟩ 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 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015
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



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