

Features

- Power supply for 24 V
- Permits vertical or horizontal mounting in Zone 2
- Use three power supplies for redundancy
- Galvanic isolation to mains
- Supply of I/O modules and com units
- Mounting in Zone 2, Class I/Div.2 or in the safe area

Function

The power supply provides power for the I/O modules and com units mounted on the backplane.

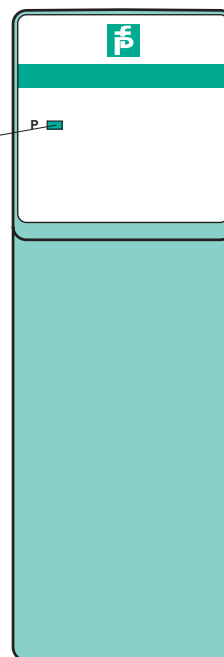
Power supplies can be connected in parallel to achieve redundancy. Two power supplies may be needed, depending on the number and power consumption of the modules used. A third power supply then handles redundancy.

Input and output are galvanically isolated from each other (EN 61010-1).

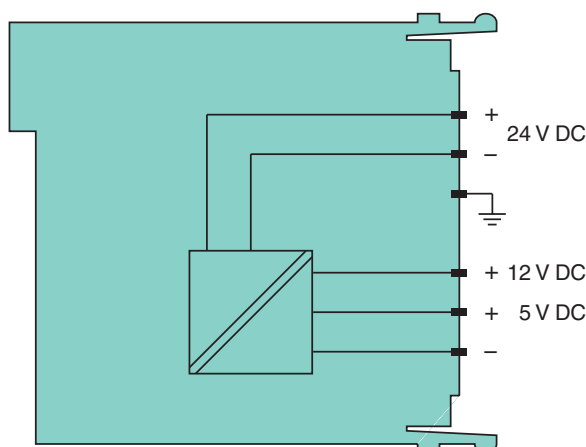
Assembly

Front view

Power LED green



Connection



Zone 2
Div. 2

Slots	
Bus coupler	2
I/O modules	>12, depending on the type
Supply	
Maximum safe voltage U_m	60 V DC (SELV/PELV)
Input voltage range U	18 ... 32 V DC (SELV/PELV)
Power dissipation	approx. 15 % of power consumption
Power consumption	max. 30 W for Zone 2 applications max. 45 W for applications in safe area parallel connection with other LB9006C (autom. power sharing)
Inrush current	1.5 A (10 ms)
Output	
Voltage	5.4 V DC $\pm$ 5% , 12 V DC $\pm$ 4/- 2%
Power	$P_{5V} \leq 5.4 \text{ W}$, $P_{12V} \leq 25 \text{ W}$ - P_{5V} for Zone 2 applications $P_{5V} \leq 5.4 \text{ W}$, $P_{12V} \leq 39 \text{ W}$ - P_{5V} for applications in safe area
Indicators/settings	
LED indicator	Power LED (P) green: OFF in case of loss of 24 V or 12 V or 5 V
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
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	-20 ... 60 °C (-4 ... 140 °F) , 70 °C (non-Ex)
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 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration $\pm$ 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) , mounted on backplane
Mass	approx. 220 g
Dimensions	32.5 x 100 x 102 mm (1.28 x 3.9 x 4 inch)
Data for application in connection with hazardous areas	
Certificate	PF 08 CERT 1234 X
Marking	⊗ II 3 G Ex nA IIC T4 Gc
Galvanic isolation	
Output/power supply, internal bus	EN 60950-1 (Safety requirement: < 60 V, external supply SELV/PELV)
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010
International approvals	
UL approval	E106378
IECEEx approval	BVS 09.0037X
Approved for	Ex nA IIC T4 Gc
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
Bureau Veritas Marine	22449/B0 BV
General information	
System information	The module has to be mounted in appropriate backplanes (LB9**) in Zone 2 or outside hazardous areas. Here, observe the corresponding declaration of conformity. For use in hazardous areas (e. g. Zone 2, Zone 22 or Div. 2) the module must be installed in an appropriate enclosure.



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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