

Redundancy Base Backplane

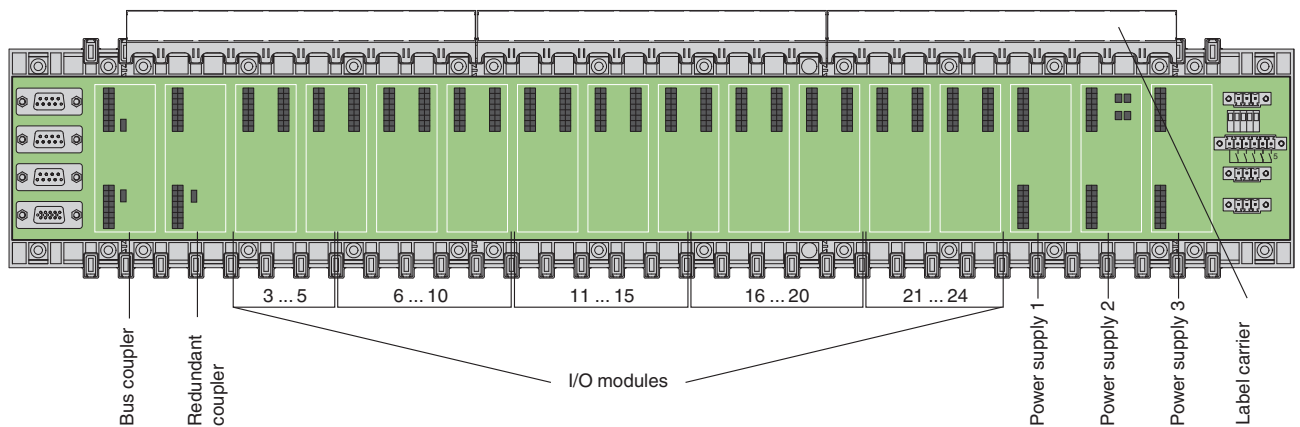
LB9022BP22320.2



- Backplane for LB-System
- For PROFIBUS DP, PROFIBUS DP V1, PROFINET, and MODBUS RTU
- Max. 22 slots for I/O modules
- 5 SIL 2 output shutdown segments
- Redundancy (field bus and power supply)
- Mounting in Zone 2, Class I/Div.2 or in the safe area

CE  **SIL 2**

Assembly



Technical Data

General specifications

Suitable components	Extension Backplane LB9024BP24300.2 Bus Coupler LB8106*, LB8107*, LB8108*, LB8109*, LB8122*
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Slots

Bus coupler	2
Supply	3
Output shut-down	5 SIL2 output shutdown segments slots 3 ... 5, 6 ... 10, 11 ... 15, 16 ... 20, 21 ... 24
I/O modules (single width)	max. 22
I/O modules (dual width)	max. 11

Supply

Maximum safe voltage U_m	60 V DC (SELV/PELV)
Input voltage range	U 18 ... 32 V DC (SELV/PELV)
Redundancy	yes

Fieldbus connection

Fieldbus type	PROFIBUS DP/DP-V1, PROFINET or MODBUS RTU, depends on bus coupler
Redundancy	yes

Directive conformity

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

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 **PEPPERL+FUCHS**

Technical Data

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
Conformity		
Electromagnetic compatibility		NE 21
Degree of protection		EN 60529
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F) , 70 °C (non-Ex)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		95 % non-condensing
Altitude		max. 2000 m
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
Mass		approx. 2170 g
Dimensions		(W x H x D) 605 x 127 x 80 mm (23.8 x 5 x 3.15 inch) , without modules
Height		127 mm
Width		605 mm
Depth		80 mm
Data for application in connection with hazardous areas		
Certificate		BVS 16 ATEX E 089 X
Marking		Ⓔ II 3G Ex ec IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 EN 60079-7:2015+A1:2018
International approvals		
IECEx approval		IECEx BVS 16.0047X
Approved for		Ex ec IIC T4 Gc
General information		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .