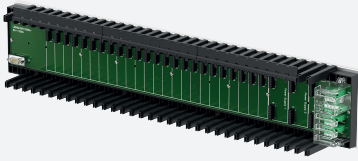


Extension Backplane

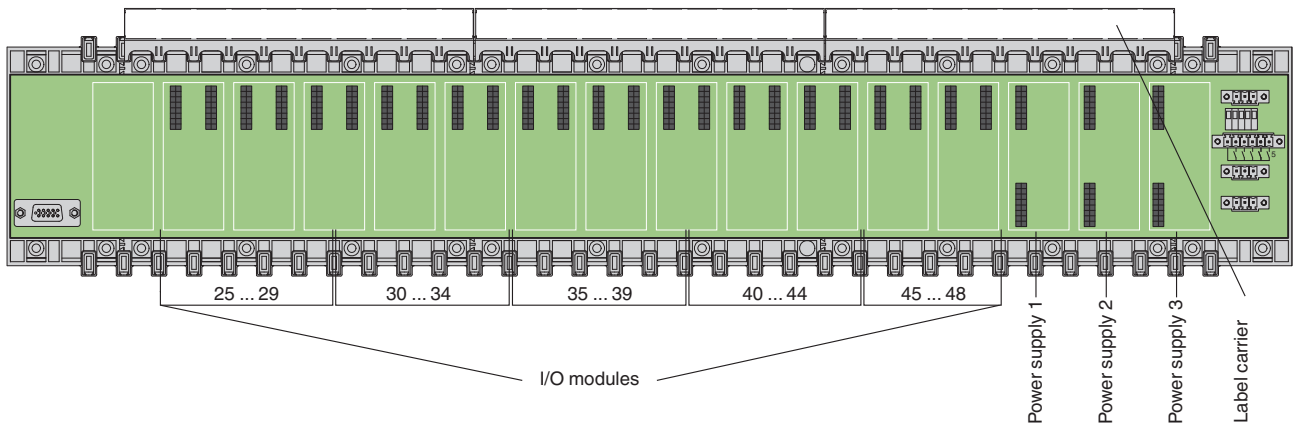
LB9024BP24300.1



- Backplane for LB-System
- Fieldbus type determined by base backplane
- Max. 24 slots for I/O modules
- 5 SIL 2 output shutdown segments
- Redundancy (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 Backplane LB9022BP22320.0.E , LB9022BP22320.0.F , LB9022BP22320.1

Slots

Supply	3
Output shut-down	5 SIL2 output shutdown segments slots 25 ... 29, 30 ... 34, 35 ... 39, 40 ... 44, 45 ... 48
I/O modules (single width)	max. 24
I/O modules (dual width)	max. 12

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/TCP , depending on the base backplane
Redundancy	yes

Directive conformity

Electromagnetic compatibility

Release date: 2023-11-28 Date of issue: 2023-11-28 Filename: 282731_eng.pdf

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

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 **PEPPERL+FUCHS**

Technical Data

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. 1800 g
Dimensions	(W x H x D) 605 x 127 x 80 mm (23.8 x 5 x 3.15 inch) , without modules
Data for application in connection with hazardous areas	
Certificate	BVS 16 ATEX E 089 X
Marking	Ⓜ II 3 G Ex nA IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 EN 60079-15:2010
International approvals	
UL approval	E106378
Control drawing	116-0321
IECEx approval	IECEx BVS 16.0047X
Approved for	Ex nA 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 .