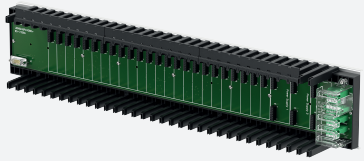
Extension Backplane

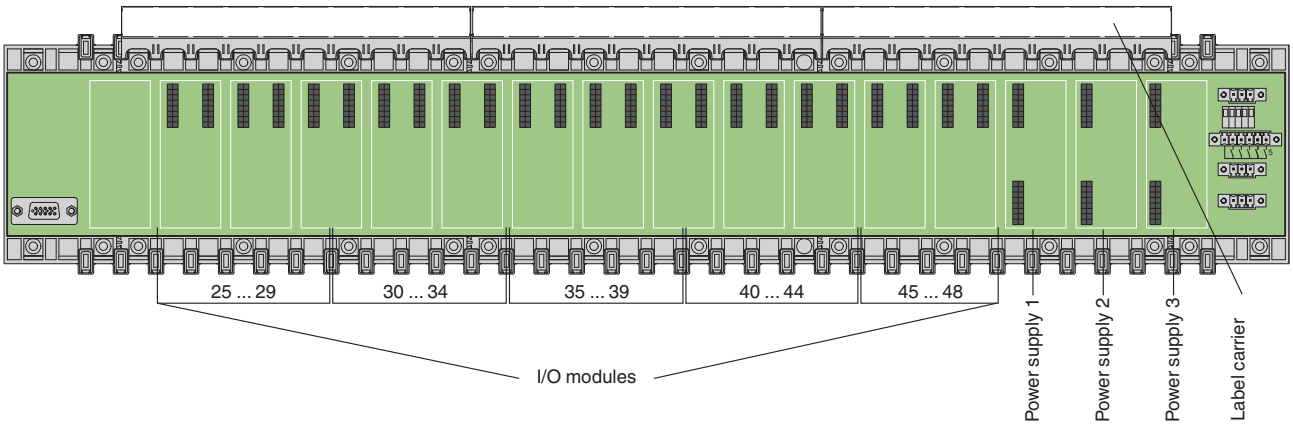
LB9024BP24300.1



- 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 Ex 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

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		Ⓔx 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.

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