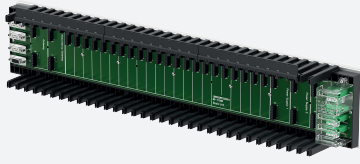


# Redundancy Base Backplane

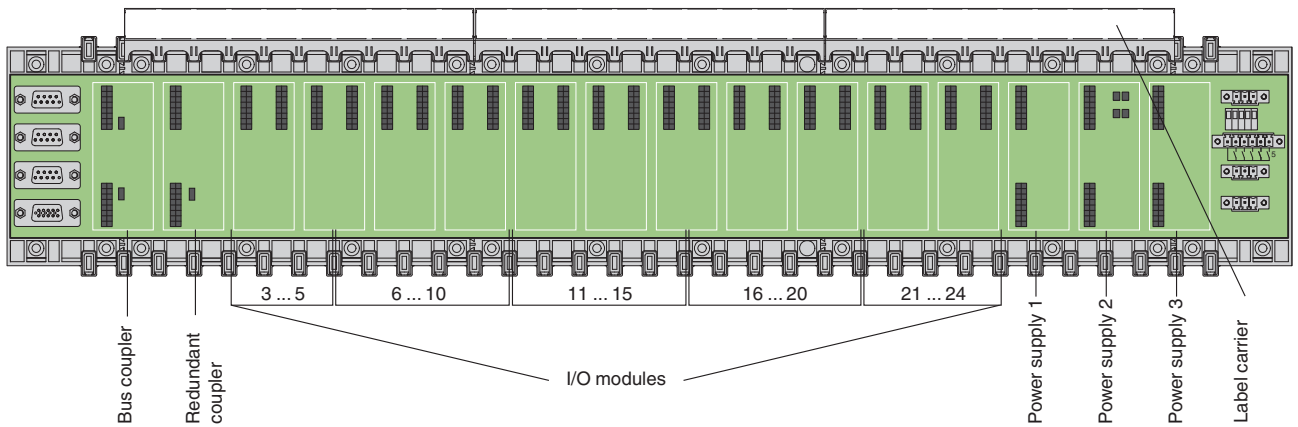
## LB9022BP22320.1



- 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  **SIL2**

### Assembly



### Technical Data

#### General specifications

Suitable components Extension Backplane LB9024BP24300.1  
Bus Coupler LB8106\*, LB8107\*, LB8108\*, LB8109\*, LB8122\*

#### 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

Release date: 2025-03-03 Date of issue: 2025-03-03 Filename: 282729\_eng.pdf

## Technical Data

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
<b>Conformity</b>		
Electromagnetic compatibility		NE 21
Degree of protection		EN 60529
<b>Ambient conditions</b>		
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 $\pm 0.075$ 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
<b>Mechanical specifications</b>		
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
<b>Data for application in connection with hazardous areas</b>		
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
<b>International approvals</b>		
ATEX approval		BVS 16 ATEX E 089 X
UL approval		E106378
IECEx approval		
IECEx certificate		IECEx BVS 16.0047X
IECEx marking		Ex nA IIC T4 Gc
<b>General information</b>		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .