

# Redundancy Base Backplane

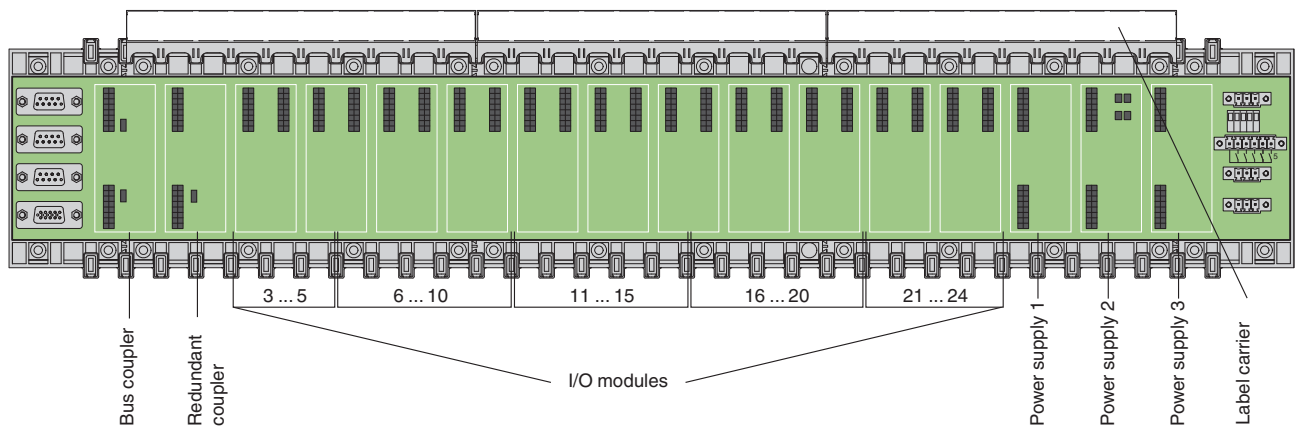
## LB9022BP22320.1



- 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  **SIL 2**

### Assembly



### Technical Data

#### General specifications

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| Suitable components | Extension Backplane LB9024BP24300.1<br>Bus Coupler LB8106*, LB8107*, LB8108*, LB8109*, LB8122* |
|---------------------|------------------------------------------------------------------------------------------------|

#### Slots

|                            |                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------|
| Bus coupler                | 2                                                                                           |
| Supply                     | 3                                                                                           |
| Output shut-down           | 5 SIL2 output shutdown segments<br>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

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

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## 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 ± 0.075 mm/1 g; 10 cycles<br>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                                                                                                                                                    |
| <b>Mechanical specifications</b>                               |  |                                                                                                                                                                                                                                                  |
| Degree of protection                                           |  | IP20                                                                                                                                                                                                                                             |
| Mass                                                           |  | approx. 2170 g                                                                                                                                                                                                                                   |
| Dimensions                                                     |  | (W x H x D)<br>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                                                                                                                                                                                                                         |
| <b>Directive conformity</b>                                    |  |                                                                                                                                                                                                                                                  |
| Directive 2014/34/EU                                           |  | EN IEC 60079-0:2018+AC:2020<br>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> .                      |