

Extension Backplane

FB9262BP24200.2

- Extension backplane for FB system
- Max. 24 slots for I/O modules
- Installation in Zone 1
- For PROFIBUS, PROFINET, MODBUS RTU or MODBUS TCP



Function

The backplane serves as an extension backplane for the base backplane FB9262BP24110.1.
The backplane provides 24 slots for I/O modules.
The I/O modules can be plugged anywhere on each slot.

Connection Assignment

Wiring Base / Extension Backplane

Base Backplane
FB9262BP24110.2

Connection Cable
FB9275-*

Extension Backplane
FB9262BP24200.2

| | | | | | | | | |
|----|-----|--------------|--|--------------------|----|-----|--------------|--|
| 39 | □ □ | GND PGW | | BU | 39 | □ □ | GND PGW | |
| 38 | □ □ | CTRL PGW | | RD | 38 | □ □ | CTRL PGW | |
| 37 | □ □ | GND PGW | | BK | 37 | □ □ | GND PGW | |
| 36 | □ □ | DATA PGW | | VT | 36 | □ □ | DATA PGW | |
| 35 | □ □ | GND PGW | | PK | 35 | □ □ | GND PGW | |
| 34 | □ □ | Select 2 PGW | | BU/RD | 34 | □ □ | Select 2 PGW | |
| 33 | □ □ | Select 3 PGW | | YE | 33 | □ □ | Select 3 PGW | |
| 32 | □ □ | GND PGW | | GN/GR (see legend) | 32 | □ □ | GND PGW | |
| 16 | □ □ | PB | | | 16 | □ □ | PB | |

Wiring Emergency Shutdown

No Shutdown

| | | | |
|----|-----|---------------------|--|
| 19 | □ □ | Shutdown Upper Rail | |
| 18 | □ □ | 12 V | |
| 17 | □ □ | Shutdown Lower Rail | |

Shutdown Upper Rail

| | | | |
|----|-----|---------------------|--|
| 19 | □ □ | Shutdown Upper Rail | |
| 18 | □ □ | 12 V | |
| 17 | □ □ | Shutdown Lower Rail | |

Shutdown Lower Rail

| | | | |
|----|-----|---------------------|--|
| 19 | □ □ | Shutdown Upper Rail | |
| 18 | □ □ | 12 V | |
| 17 | □ □ | Shutdown Lower Rail | |

Shutdown both Rails

| | | | |
|----|-----|---------------------|--|
| 19 | □ □ | Shutdown Upper Rail | |
| 18 | □ □ | 12 V | |
| 17 | □ □ | Shutdown Lower Rail | |

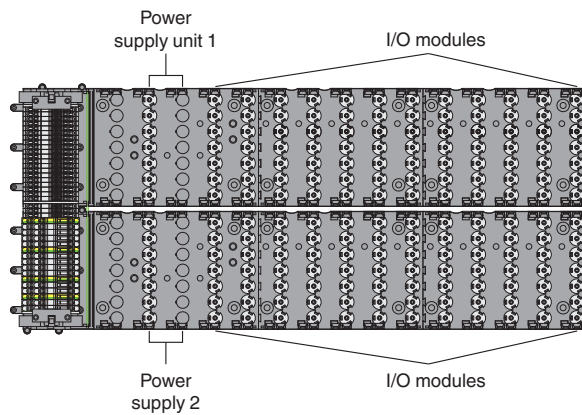
Power Connection

| | | | | |
|---|-----|-------------|--|---------------------|
| 6 | □ □ | PE | | Power Supply Unit 1 |
| 5 | □ □ | L / + PSU 1 | | |
| 4 | □ □ | N / - PSU 1 | | |
| 3 | □ □ | PE | | Power Supply Unit 2 |
| 2 | □ □ | L / + PSU 2 | | |
| 1 | □ □ | N / - PSU 2 | | |

Protective Bonding

| | | | |
|----|-----|----|--|
| 16 | □ □ | PB | |
| 15 | □ □ | PB | |

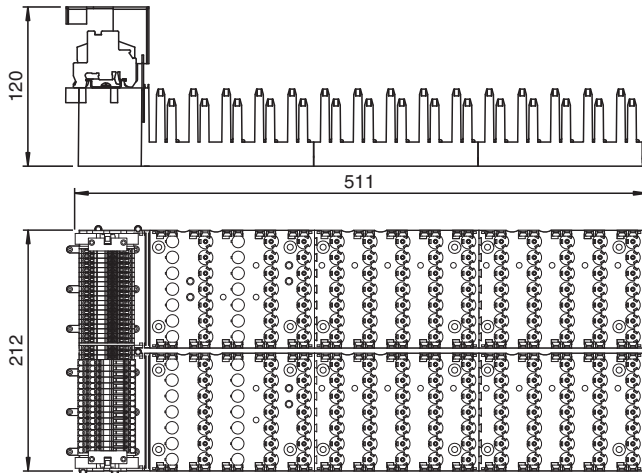
| Legend | |
|--------|--|
| PGW: | Primary Gateway |
| SGW: | Secondary Gateway |
| PSU: | Power Supply Unit |
| GN/GR: | Green heat-shrinkable tube at the end of a grey stranded conductor |



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

Dimensions



Technical Data




| | | |
|--|---|--|
| Slots | | |
| Bus coupler | | 0 |
| Bus termination | | 0 |
| Supply | | 2 |
| 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) / 253 V AC, depending on power supply |
| Input voltage range | U | 18 ... 32 V DC (SELV/PELV) / 95 ... 253 V AC; depends on power supply |
| Redundancy | | yes |
| Fieldbus connection | | |
| Fieldbus type | | PROFIBUS, PROFINET, MODBUS RTU or MODBUS TCP |
| Redundancy | | yes |
| Directive conformity | | |
| Electromagnetic compatibility | | |
| Directive 2014/30/EU | | EN 61326-1:2013 |
| Conformity | | |
| Degree of protection | | EN 60529 |
| Ambient conditions | | |
| Ambient temperature | | -40 ... 60 °C (-40 ... 140 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| 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 |
| Mechanical specifications | | |
| Degree of protection | | IP30 |
| Mass | | approx. 2713 kg , without modules |
| Dimensions | | (W x H x D) 511 x 212 x 120 mm , without modules |
| Data for application in connection with hazardous areas | | |
| EU-type examination certificate | | BVS 11 ATEX E 041 X |
| Marking | | Ⓔ II 2 G Ex d e m IIC T4 |
| Directive conformity | | |
| Directive 2014/34/EU | | EN IEC 60079-0:2018+AC:2020 EN 60079-1:2014 EN 60079-7:2015+A1:2018 EN 60079-18:2015+A1:2017 |

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Technical Data

| International approvals | |
|---------------------------|---|
| IECEx approval | BVS 11.0019X |
| Approved for | International: Ex db eb mb IIC T4 Gb ; Ex db eb IIC T4 Gb |
| INMETRO approval | Brazil: TÜV 14.1598X |
| Marine approval | |
| Bureau Veritas Marine | 22449/C0 BV |
| 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 . |

Accessories

| | | |
|---|-------------------------------|-----------------------------|
|  | FB9248-T8*-*.***-**-Y* | Field Unit, Stainless Steel |
|  | FB9260-TX*-*.***-**-Y* | Field Unit, Stainless Steel |
|  | FB9248-T7*-*.***-**-Y* | Field Unit, Stainless Steel |

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

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Product Versions

Backplane combination possibilities

Type FB9262BP* backplanes can be used together as base and extension backplanes in the following combinations:

| | | Extension | | | |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | FB9262BP10220.2 | FB9262BP20220.2 | FB9262BP24110.2 | FB9262BP24200.2 |
| Base | FB9262BP10220.2 | – | – | – | – |
| | FB9262BP20220.2 | X | X | – | – |
| | FB9262BP24110.2 | – | – | – | – |
| | FB9262BP24200.2 | – | – | – | X |

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