

Universal Backplane

FB9262BP10220.2

- Universal backplane
- Max. 10 slots for I/O modules
- Redundancy (field bus and power supply)
- Installation in Zone 1
- For PROFIBUS, PROFINET, MODBUS RTU or MODBUS TCP



Function

The universal backplane can be used as base and extension backplane.
The backplane provides slots for a redundant gateway, and a redundant power supply.
It provides 10 slots for I/O modules. The I/O modules can be plugged anywhere on each slot.

Connection Assignment

Power Supply Selection of Bus Coupler / Gateway
 Jumper Settings for using the Gateway FB822*, FB823*

40	<input type="checkbox"/>	12 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	<input type="checkbox"/>	12 V / 5.4 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	<input type="checkbox"/>	5.4 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Jumper Settings for using the Bus Coupler FB8205 – FB8211

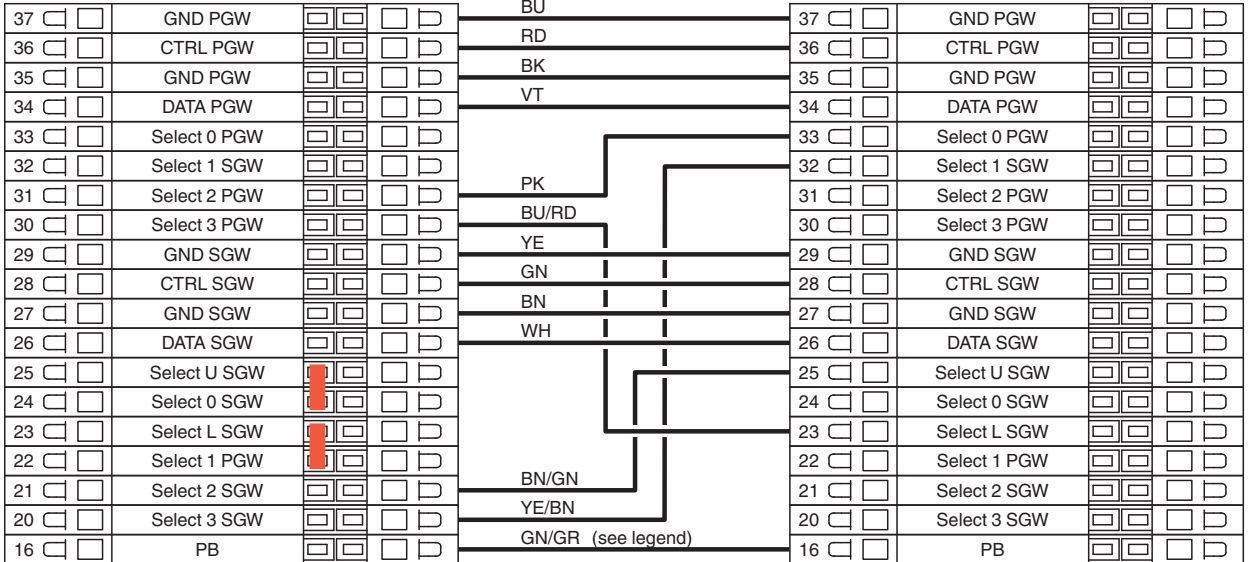
40	<input type="checkbox"/>	12 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	<input type="checkbox"/>	12 V / 5.4 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	<input type="checkbox"/>	5.4 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Wiring Base / Extension Backplane

Base Backplane
 FB9262BP20220.2

Connection Cable
 FB9274-*

Extension Backplane
 FB9262BP10220.2



Wiring Emergency Shutdown

No Shutdown

19	<input type="checkbox"/>	Shutdown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	12 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shutdown

19	<input checked="" type="checkbox"/>	Shutdown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	12 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Fieldbus and Servicebus Connection

In Brackets: Connection for Ethernet / Modbus TCP FB8211* Bus Coupler

14	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	See table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table: Fieldbus and Servicebus Connection

Terminal	Gateway	Profibus	Modbus TCP	Modbus RTU	Servicebus
14	P_GW	Fieldbus B	TX+ ←	Fieldbus A	-----
13	P_GW	Fieldbus A	TX- ←	Fieldbus B	-----
12	P_GW	-----	RX+ →	-----	Servicebus A
11	P_GW	-----	RX- →	-----	Servicebus B
10	S_GW	Fieldbus B	TX+ ←	Fieldbus A	-----
9	S_GW	Fieldbus A	TX- ←	Fieldbus B	-----
8	S_GW	-----	RX+ →	-----	Servicebus A
7	S_GW	-----	RX- →	-----	Servicebus B

Power Connection

6	<input type="checkbox"/>	PE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Supply Unit 1
5	<input type="checkbox"/>	L / + PSU 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	N / - PSU 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	PE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Supply Unit 2
2	<input type="checkbox"/>	L / + PSU 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	<input type="checkbox"/>	N / - PSU 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Protective Bonding

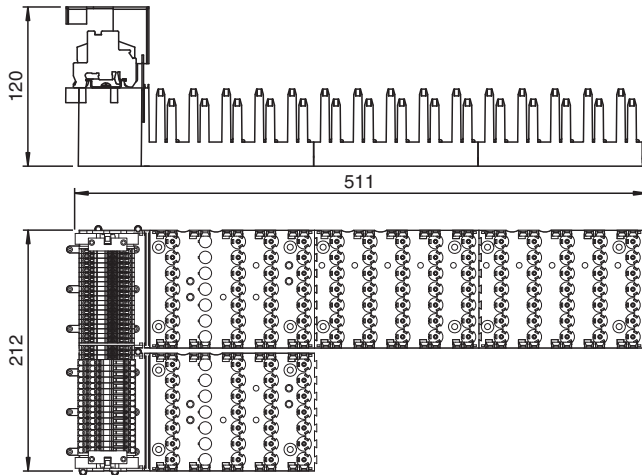
16	<input type="checkbox"/>	PB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	PB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Release date: 2025-04-15 Date of issue: 2025-04-15 Filename: 70119393_eng.pdf

Dimensions



Technical Data

Slots		
Bus coupler		2
Bus termination		2
Supply		2
I/O modules (single width)		max. 10
I/O modules (dual width)		max. 5
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. 2133 g , without modules
Dimensions		(W x H x D) 511 x 212 x 120 mm , without modules
Height		211.8 mm
Width		510.7 mm
Depth		120 mm
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		

Release date: 2025-04-15 Date of issue: 2025-04-15 Filename: 70119393_eng.pdf

Technical Data

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
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 .

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

Release date: 2025-04-15 Date of issue: 2025-04-15 Filename: 70119393_eng.pdf