

# Universal Backplane

## FB9262BP10220.1

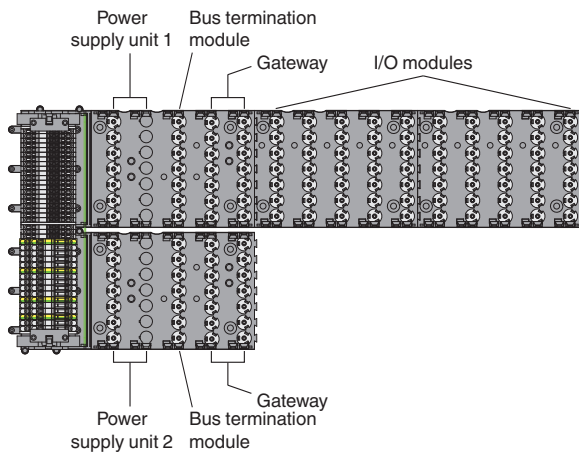
- Universal backplane
- Max. 10 slots for I/O modules
- Redundancy (field bus and power supply)
- Installation in Zone 1
- Für PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU und MODBUS TCP/IP



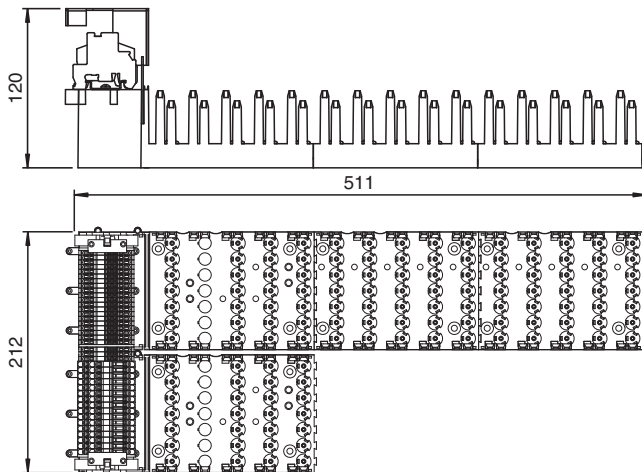
### Function

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.

### Assembly



### Dimensions



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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0002  
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
pa-info@sg.pepperl-fuchs.com

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**Technical Data**

<b>Slots</b>		
Bus coupler		2
Bus termination		2
Supply		2
I/O modules (single width)		max. 10
I/O modules (dual width)		max. 5
<b>Supply</b>		
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
<b>Fieldbus interface</b>		
Fieldbus type		PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP, depends on bus coupler
Redundancy		yes
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2006
<b>Conformity</b>		
Degree of protection		EN 60529
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 65 °C (-4 ... 149 °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 $\pm 0.075$ 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
<b>Mechanical specifications</b>		
Degree of protection		IP30
Mass		approx. 2133 g, without modules
Dimensions		(W x H x D) 511 x 212 x 120 mm, without modules
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate		BVS 11 ATEX E 041 X
Marking		Ⓔ II 2 G Ex d e m IIC T4
<b>Input</b>		
Voltage	$U_o$	
<b>International approvals</b>		
IECEX approval		BVS 11.0019X
Approved for		International: Ex db eb mb IIC T4 ; Ex db eb IIC T4
INMETRO		Brazil: TÜV 14.1598X
<b>Marine approval</b>		
Bureau Veritas Marine		22449/B0 BV
<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> .

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## Components

### Backplane combination possibilities

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

		Extension			
		FB9262BP10220.1	FB9262BP20220.1	FB9262BP24110.1	FB9262BP24200.1
Base	FB9262BP10220.1	-	-	-	-
	FB9262BP20220.1	X	X	-	-
	FB9262BP24110.1	-	-	-	X
	FB9262BP24200.1	-	-	-	-

## Connection Assignment

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**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

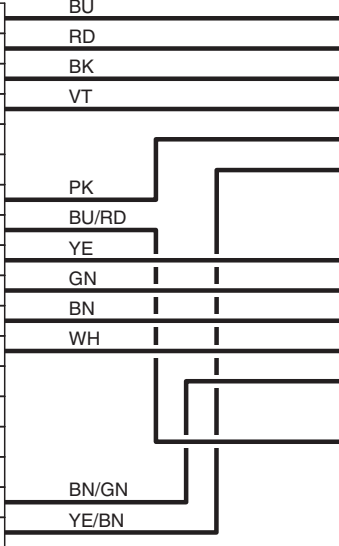
40	<input type="checkbox"/>	12 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	<input type="checkbox"/>	12 V / 5.4 V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	<input type="checkbox"/>	5.4 V	<input checked="" type="checkbox"/>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

**Wiring Base / Extension Backplane**

Base Backplane  
FB9262BP20220.1

37	<input type="checkbox"/>	GND PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	<input type="checkbox"/>	CTRL PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	<input type="checkbox"/>	GND PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	<input type="checkbox"/>	DATA PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	<input type="checkbox"/>	Select 0 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	<input type="checkbox"/>	Select 1 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	<input type="checkbox"/>	Select 2 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	<input type="checkbox"/>	Select 3 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	<input type="checkbox"/>	GND SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	<input type="checkbox"/>	CTRL SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	<input type="checkbox"/>	GND SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	<input type="checkbox"/>	DATA SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	<input type="checkbox"/>	Select U SGW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	<input type="checkbox"/>	Select 0 SGW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input type="checkbox"/>	Select L SGW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/>	Select 1 PGW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="checkbox"/>	Select 2 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	Select 3 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection Cable  
FB9274-\*  
BU



Extension Backplane  
FB9262BP10220.1

37	<input type="checkbox"/>	GND PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	<input type="checkbox"/>	CTRL PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	<input type="checkbox"/>	GND PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	<input type="checkbox"/>	DATA PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	<input type="checkbox"/>	Select 0 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	<input type="checkbox"/>	Select 1 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	<input type="checkbox"/>	Select 2 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	<input type="checkbox"/>	Select 3 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	<input type="checkbox"/>	GND SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	<input type="checkbox"/>	CTRL SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	<input type="checkbox"/>	GND SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	<input type="checkbox"/>	DATA SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	<input type="checkbox"/>	Select U SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	<input type="checkbox"/>	Select 0 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input type="checkbox"/>	Select L SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/>	Select 1 PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="checkbox"/>	Select 2 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	Select 3 SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shutdown

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

**Fieldbus and Servicebus Connection**

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

16	<input type="checkbox"/>	PE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	Fieldbus B (TX+) PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	Fieldbus A (TX-) PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	Servicebus A (TX+) PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	Servicebus B (TX-) PGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	PE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	Fieldbus B (RX+) SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	Fieldbus A (RX-) SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	Servicebus A (RX+) SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	Servicebus B (RX-) SGW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Power Connection**

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

Power Supply Unit 1 (pins 5, 4, 3)  
Power Supply Unit 2 (pins 2, 1)

Legend	
PGW:	Primary Gateway
SGW:	Secondary Gateway
PSU:	Power Supply Unit

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