

Universal Backplane

FB9262BP10220.1

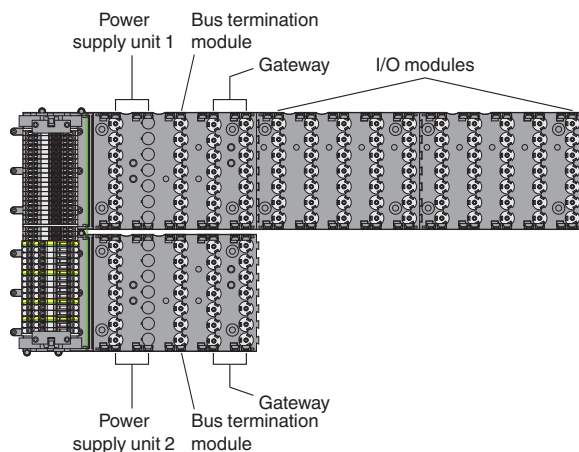
- Universal backplane
- Max. 10 slots for I/O modules
- Redundancy (field bus and power supply)
- Installation in Zone 1
- Für PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU und MODBUS TCP/IP



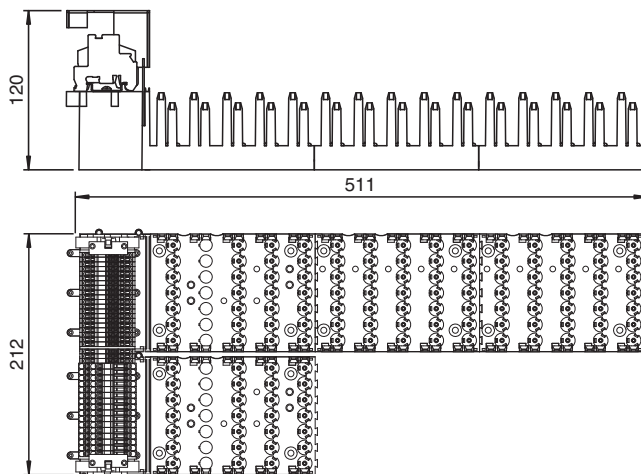
Function

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".

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 **PEPPERL+FUCHS**

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 interface

Fieldbus type	PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP, depends on bus coupler
Redundancy	yes

Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2006

Conformity

Degree of protection	EN 60529
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Ambient conditions

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 ± 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

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
Input	
Voltage	U_o

International approvals

IECEx approval	BVS 11.0019X
Approved for	International: Ex db eb mb IIC T4 ; Ex db eb IIC T4
INMETRO	Brazil: TÜV 14.1598X
Marine approval	
Bureau Veritas Marine	22449/B0 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 .
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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

Power Supply Selection of Bus Coupler / Gateway

Jumper Settings for using the Gateway FB822*, FB823*

40	☐	12 V	☒	☐	☐
39	☐	12 V / 5.4 V	☒	☐	☐
38	☐	5.4 V	☐	☐	☐

Jumper Settings for using the Bus Coupler FB8205 – FB8211

40	☐	12 V	☐	☐	☐
39	☐	12 V / 5.4 V	☒	☐	☐
38	☐	5.4 V	☒	☐	☐

Wiring Base / Extension Backplane

Base Backplane
FB9262BP20220.1

37	☐	GND PGW	☐	☐	☐
36	☐	CTRL PGW	☐	☐	☐
35	☐	GND PGW	☐	☐	☐
34	☐	DATA PGW	☐	☐	☐
33	☐	Select 0 PGW	☐	☐	☐
32	☐	Select 1 SGW	☐	☐	☐
31	☐	Select 2 PGW	☐	☐	☐
30	☐	Select 3 PGW	☐	☐	☐
29	☐	GND SGW	☐	☐	☐
28	☐	CTRL SGW	☐	☐	☐
27	☐	GND SGW	☐	☐	☐
26	☐	DATA SGW	☐	☐	☐
25	☐	Select U SGW	☒	☐	☐
24	☐	Select 0 SGW	☒	☐	☐
23	☐	Select L SGW	☒	☐	☐
22	☐	Select 1 PGW	☒	☐	☐
21	☐	Select 2 SGW	☐	☐	☐
20	☐	Select 3 SGW	☐	☐	☐

Connection Cable
FB9274-*

BU
RD
BK
VT
PK
BU/RD
YE
GN
BN
WH
BN/GN
YE/BN

Extension Backplane
FB9262BP10220.1

37	☐	GND PGW	☐	☐	☐
36	☐	CTRL PGW	☐	☐	☐
35	☐	GND PGW	☐	☐	☐
34	☐	DATA PGW	☐	☐	☐
33	☐	Select 0 PGW	☐	☐	☐
32	☐	Select 1 SGW	☐	☐	☐
31	☐	Select 2 PGW	☐	☐	☐
30	☐	Select 3 PGW	☐	☐	☐
29	☐	GND SGW	☐	☐	☐
28	☐	CTRL SGW	☐	☐	☐
27	☐	GND SGW	☐	☐	☐
26	☐	DATA SGW	☐	☐	☐
25	☐	Select U SGW	☐	☐	☐
24	☐	Select 0 SGW	☐	☐	☐
23	☐	Select L SGW	☐	☐	☐
22	☐	Select 1 PGW	☐	☐	☐
21	☐	Select 2 SGW	☐	☐	☐
20	☐	Select 3 SGW	☐	☐	☐

Wiring Emergency Shutdown

No Shutdown

19	☐	Shutdown	☒	☐	☐
18	☐	12 V	☒	☐	☐

Shutdown

19	☒	Shutdown	☐	☐	☐
18	☐	12 V	☐	☐	☐

Fieldbus and Servicebus Connection

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

16	☐	PE	☐	☐	☐
15	☐	Fieldbus B (TX+) PGW	☐	☐	☐
14	☐	Fieldbus A (TX-) PGW	☐	☐	☐
13	☐	Servicebus A (TX+) PGW	☐	☐	☐
12	☐	Servicebus B (TX-) PGW	☐	☐	☐
11	☐	PE	☐	☐	☐
10	☐	Fieldbus B (RX+) SGW	☐	☐	☐
9	☐	Fieldbus A (RX-) SGW	☐	☐	☐
8	☐	Servicebus A (RX+) SGW	☐	☐	☐
7	☐	Servicebus B (RX-) SGW	☐	☐	☐

Power Connection

6	☐	PE	☐	☐	☐
5	☐	L / + PSU	☐	☐	☐
4	☐	N / - PSU	☐	☐	☐
3	☐	PE	☐	☐	☐
2	☐	L / + PSU	☐	☐	☐
1	☐	N / - PSU	☐	☐	☐

Power Supply Unit 1
Power Supply Unit 2

Legend

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