

IL PB BK DP/V1 - Bus coupler

2718688

<https://www.phoenixcontact.com/us/products/2718688>



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PROFIBUS bus coupler, Standard-PROFIBUS-DP and its extension, DP/V1, 24 V DC, without accessories

Commercial data

Item number	2718688
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI112
Catalog page	Page 194 (AX-2005)
GTIN	4017918904616
Weight per piece (including packing)	265.6 g
Weight per piece (excluding packing)	265.6 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Product properties

Type	modular
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System properties

INTERBUS-Master

Number of devices with parameter channel	max. 16
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Module

ID code (hex)	none
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Electrical properties

Protective circuit	Reverse polarity protection
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Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V) and the analog supply U_{ANA} (24 V) are generated from the bus coupler supply.

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (via Inline connector)
Current draw	max. 1.25 A (with max. number of connected I/O terminal blocks) typ. 100 mA (no local bus devices connected)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC $\pm 5\%$
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Potentials: Supply of analog modules (U_{ANA})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

Electrical isolation/isolation of the voltage ranges

Test voltage: RS-485 interface / supply voltage	500 V
Test voltage: RS-485 interface / local bus	500 V

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² ... 1.5 mm ²

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Conductor cross section AWG	28 ... 16
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Interfaces

PROFIBUS DP

Connection method	D-SUB-9 female connector
Number of positions	9
Transmission speed	9.6 kbps ... 12 Mbps

Inline local bus

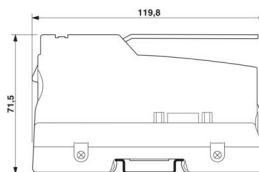
Connection method	Inline data jumper
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Fieldbus: Local bus gateway

Max. number of local bus devices	63 (The on-board I/Os are two devices)
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Dimensions

Dimensional drawing



Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Permissible humidity (operation)	85 % (non-condensing)
Permissible humidity (storage/transport)	85 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
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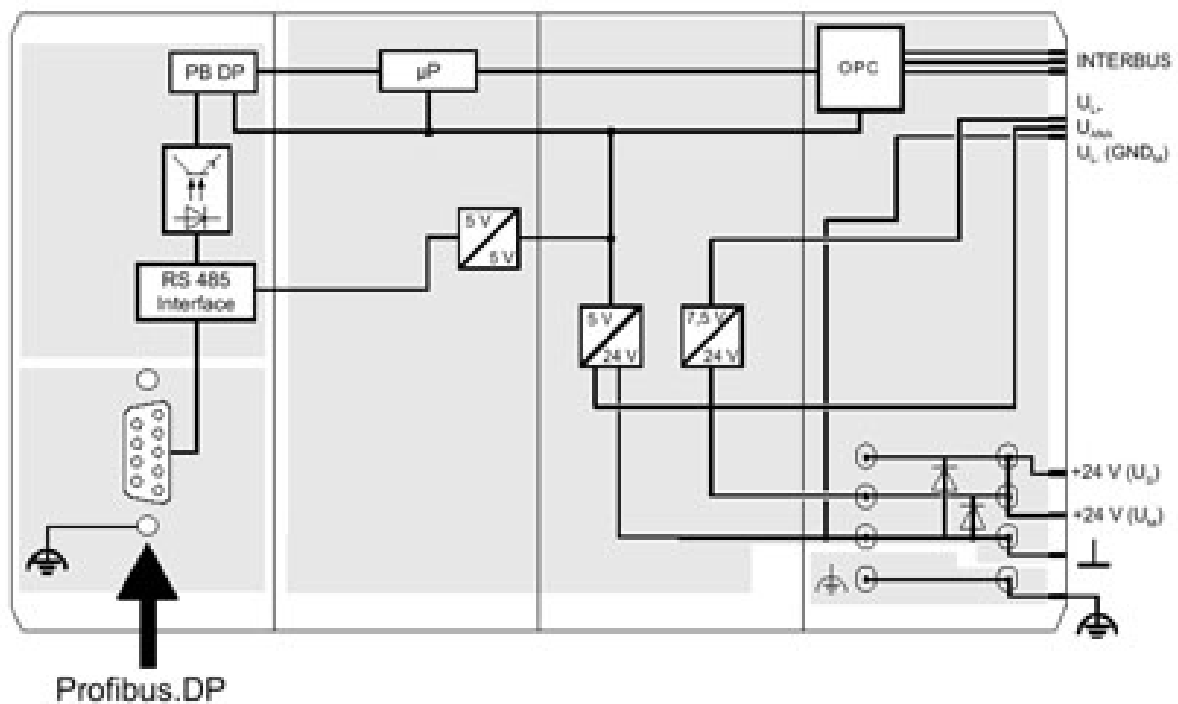
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Drawings

Block diagram



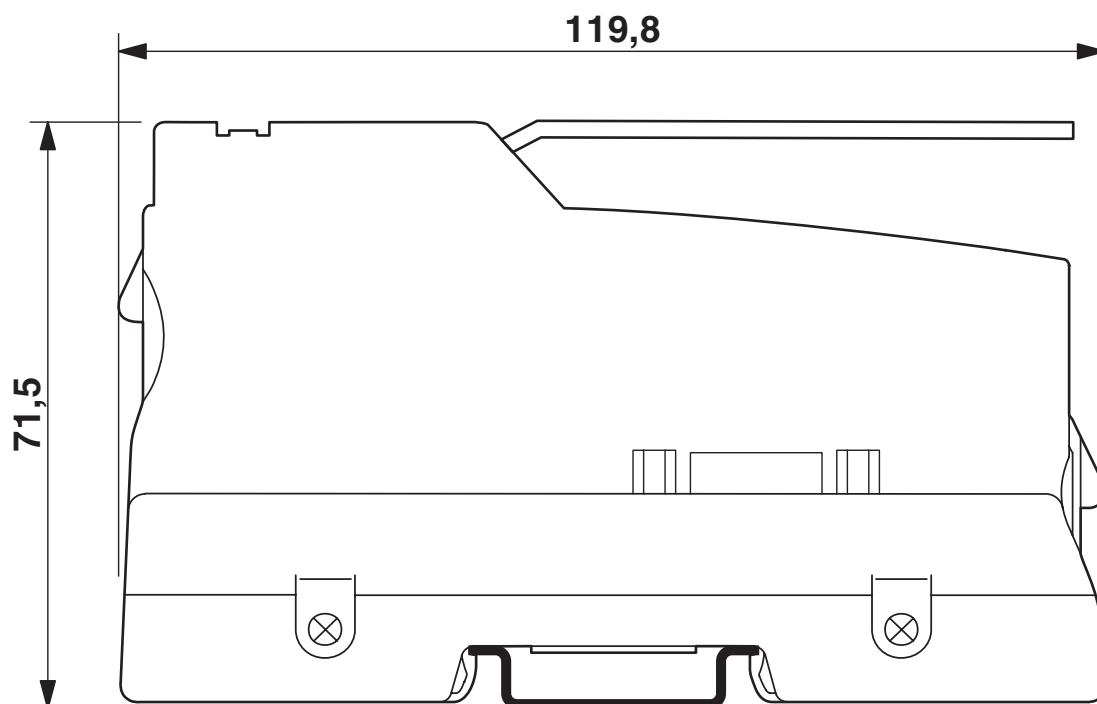
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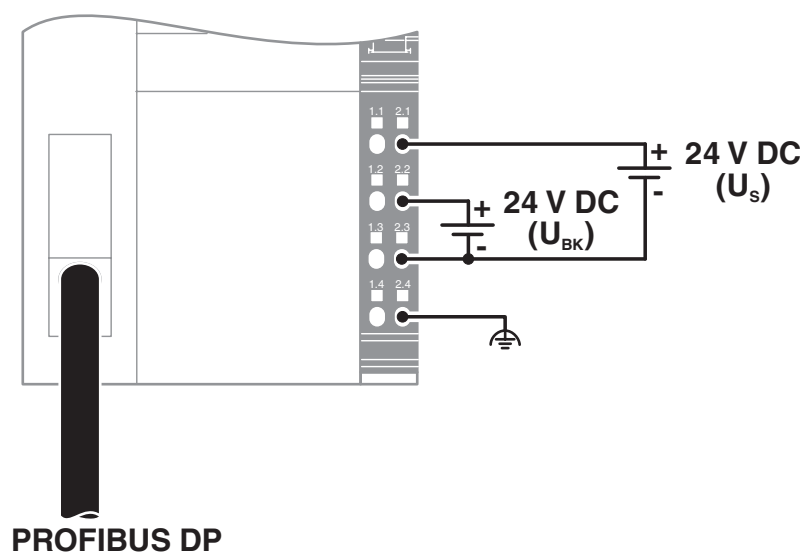
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Dimensional drawing



Connection diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Accessories

IB IL SCN-PWR IN-CP - Inline connector

2727637

<https://www.phoenixcontact.com/us/products/2727637>



Connector, colored, for Inline power and segment terminal blocks

IB IL FIELD 2 - Marking field

2727501

<https://www.phoenixcontact.com/us/products/2727501>



Marking field, width: 12.2 mm

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ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/us/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



SUBCON-PLUS-PROFIB - D-SUB bus connector

2744348

<https://www.phoenixcontact.com/us/products/2744348>

D-SUB plug, 9-pos., pin, axial version with two 35° cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks



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CLIPFIX 35 - End bracket

3022218

<https://www.phoenixcontact.com/us/products/3022218>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

SUBCON-PLUS-PROFIB/PG - D-SUB bus connector

2744403

<https://www.phoenixcontact.com/us/products/2744403>



D-SUB connector, 9-pos., pin, 35° cable outlet, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks

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AX+ BASIC - Software

2985068

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Software CD for FDT container for integrating device DTMs (free download)



AX DTM LIB - Programming software

2988065

<https://www.phoenixcontact.com/us/products/2988065>



DTM library

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