

https://www.phoenixcontact.com/au/products/2692322



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Inline, Bus coupler, PROFIBUS DP, D-SUB-9 female connector, Digital inputs: 8, 24 V DC, connection technology: 3-conductor, Digital outputs: 4, 24 V DC, 500 mA, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The bus coupler with integrated I/Os is intended for use within a PROFIBUS network and represents the link to the Inline I/O system. Up to 61 Inline devices can be connected to the bus coupler. A corresponding GSD file is available for integrating the Inline station into the programming system. This file can be downloaded via the product at www.phoenixcontact.com/products.

Your advantages

- · PROFIBUS connection via 9-pos. D-SUB socket
- Electrical isolation between PROFIBUS interface and logic
- · 8 digital inputs, 4 digital outputs (on-board)
- · Connection of a maximum of 16 PCP devices
- DP/V1 for class 1 and class 2 masters
- PROFIBUS data transmission speed of 9.6 kbps to 12 Mbps
- · Rotary coding switches for setting the PROFIBUS address
- Supported PROFIBUS addresses from 0 to 126
- · I&M functions
- IO-Link call (firmware 2.0 or later)
- · Operation of PROFIsafe devices

Commercial data

Item number	2692322
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI112
Product key	DRI112
Catalog page	Page 109 (C-6-2019)
GTIN	4046356315272
Weight per piece (including packing)	325.3 g
Weight per piece (excluding packing)	343.2 g
Customs tariff number	85389091
Country of origin	DE



2692322

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Technical data

Dimensions

Dimensional drawing	80 71,5 BUHU
Width	80 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Specfications with connectors

Notes

Note on application

Note on application	Only for industrial use
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

Interfaces

PROFIBUS DP

Number of interfaces	1
Connection method	D-SUB-9 female connector
Transmission speed	9.6 kbps 12 Mbps

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)

System properties

System limits

Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 61 (The on-board I/Os are two devices)
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	0
Response time of I/Os	typ. 4 ms (aligned I/Os; transmission speed: PROFIBUS 1.5 Mbps, local bus 500 kbps)

Module

ID code (hex)	0B50
Input address area	8 bit (or 1 byte, selection in the GSD file)



2692322

https://www.phoenixcontact.com/au/products/2692322

Output address area	4 bit (or 1 byte, selection in the GSD file)
Register length	16 bit

Input data

Digital:

2.9.00.	
Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	8
Connection method	Inline connector
Connection technology	3-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC 5 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input voltage U _{IN}	24 V DC
Nominal input current at U _{IN}	typ. 3 mA
Typical input current per channel	typ. 3 mA
Typical response time	approx. 500 μs
Delay at signal change from 0 to 1	2.9 ms
Delay at signal change from 1 to 0	2.9 ms

Output data

Digital:

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Output name	Digital outputs
Connection method	Inline connector
Connection technology	3-conductor
Number of outputs	4
Protective circuit	Short-circuit and overload protection; Freewheeling circuit in the output driver
Output voltage	24 V DC -1 V (At nominal current)
Maximum output current per module	max. 2 A
Nominal output voltage	24 V DC
Output current when switched off	max. 10 μA (When not loaded, a voltage can be measured even at an output that is not set.)
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay
Signal delay	typ. 2.9 ms
Overcurrent shut-down	min. 0.7 A

Product properties



2692322

https://www.phoenixcontact.com/au/products/2692322

Product type	I/O component
Product family	Inline
Туре	modular
Scope of supply	including Inline connectors and marking fields
No. of channels	12
Diagnostics messages	Short-circuit or overload of the digital outputs yes
	Sensor supply failure yes
	Failure of the actuator supply yes
sulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ctrical properties	
Maximum power dissipation for nominal condition	6.3 W
otentials: Bus coupler supply U_BK ; Communications power U_L (7.5 V) a pupler supply.	and the analog supply ${\sf U}_{\sf ANA}$ (24 V) are generated from the bus
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 0.98 A (with max. number of connected I/O terminal blocks
	min. 80 mA (without connected I/O terminal blocks)
otentials: Communications power (U _I)	
Supply voltage	7.5 V DC
otentials: Supply of analog modules (U _{ANA})	24 V DC
Supply voltage	
Supply voltage range	
Supply voltage range	
Supply voltage range	
Supply voltage range otentials: Main circuit supply (U _M)	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector)
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector)
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Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw otentials: Segment circuit supply (U _S)	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals)
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw otentials: Segment circuit supply (U _S) Supply voltage	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals)
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw otentials: Segment circuit supply (U _S) Supply voltage Supply voltage Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
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Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw otentials: Segment circuit supply (U _S) Supply voltage Supply voltage Supply voltage Current draw	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC
Supply voltage range otentials: Main circuit supply (U _M) Supply voltage Supply voltage range Current draw otentials: Segment circuit supply (U _S) Supply voltage Supply voltage Supply voltage range Current draw lectrical isolation/isolation of the voltage ranges Test voltage: PROFIBUS interface / communications power (U _{BK} ,	19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals) 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 8 A DC min. 3 mA (without connected peripherals)



2692322

https://www.phoenixcontact.com/au/products/2692322

Test voltage: Communications power (U $_{\rm BK},~{\rm U_L},~{\rm U_{ANA}})$ / I/O (U $_{\rm M},~{\rm U_S})$	500 V AC, 50 Hz, 1 min
Test voltage: Communications power ($\mathbf{U}_{\mathrm{BK}},\mathbf{U}_{\mathrm{L}},\mathbf{U}_{\mathrm{ANA}}$) / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: I/O (U _M , U _S) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology Connection name

Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm² 1.5 mm²
Conductor cross section flexible	0.08 mm² 1.5 mm²
Conductor cross section AWG	28 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm² 1.5 mm²
Conductor cross section, flexible	0.08 mm² 1.5 mm²
Conductor cross section AWG	28 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP20
Air pressure (operation)	70 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)
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (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

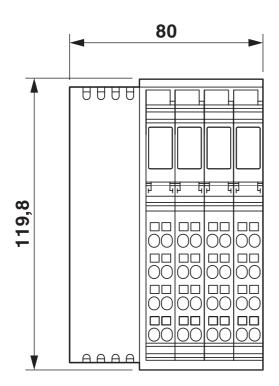


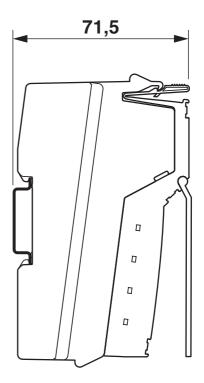
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Drawings

Dimensional drawing



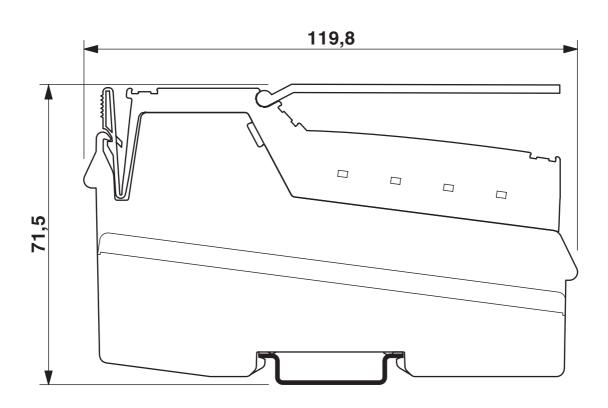




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Dimensional drawing

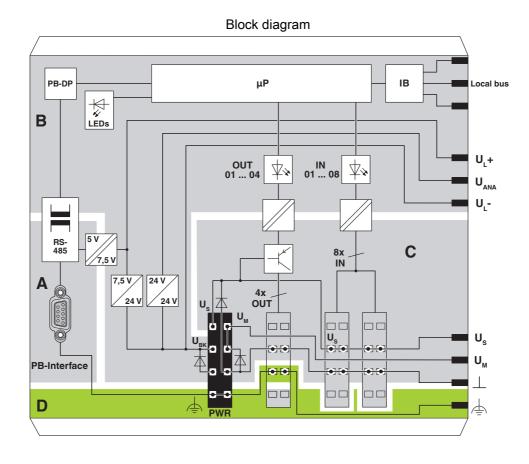


PWR DO4 DI4 DI4 1 2 3 4 IN6 (Us) 24 V DC (Us) PROFIBUS - DP PROFIBUS - DP (UM) PROFIBUS - DP (UM) PROFIBUS - DP



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2692322



EAC

Approval ID: TR TS_S_03508-21



ΒV

Approval ID: 21725/C0 BV



RINA

Approval ID: ELE121121XG

DNV

Approval ID: TAA00002CU



cULus Recognized

Approval ID: E140324



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Classifications

	ECLASS-13.0	27242608
ETIM		
	ETIM 9.0	EC001604
UNSPSC		
	UNSPSC 21.0	32151600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-l, 7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ec83c317-fef4-4cbe-9543-f03e0f4d2b4d

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au