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Inline, Bus coupler, PROFIBUS DP, D-SUB-9 female connector, Digital inputs: 16, 24 V DC, connection method: 3-wire, Digital outputs: 16, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

#### **Product Description**

This item is a set consisting of a bus coupler, a digital input terminal with 16 inputs, and a digital output terminal with 16 outputs.

The set forms an Inline station, which you can extend with additional Inline terminals.

This Inline station is intended for use within a PROFIBUS network and represents the link to the Inline I/O system.

Up to 63 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 phoenixcontact.net/products.

The bus coupler does not support PROFIsafe modules. Use the IL PB BK DI8 DO4/EF-PAC bus coupler for this.

#### Your advantages

16 digital inputs

16 digital outputs

☑ Diagnostic and status indicators



#### **Key Commercial Data**

Packing unit	1 pc
GTIN	4 0 1 7 9 1 8 8 1 9 3 4 7
GTIN	4017918819347

#### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### **Dimensions**

Width	182.6 mm
Height	140.5 mm
Depth	71.5 mm

#### Ambient conditions



#### Technical data

#### Ambient conditions

Ambient temperature (operation)	0 °C 55 °C
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)
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)
Degree of protection	IP20

#### General

Mounting type	DIN rail
Color	green
Net weight	395 g
Note on weight specifications	with connectors

#### Interfaces

Designation	PROFIBUS DP
No. of channels	1
Connection method	D-SUB-9 female connector
Transmission speed	9.6 kbps 12 Mbps
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Designation	Supply
Connection method	8-pos. Inline power connector

#### Network/bus system

Amount of process data	max. 176 Byte (per station)
	max. 176 Byte (Input)
	max. 176 Byte (Output)
Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	0

#### Inline potentials

Designation	Bus coupler supply $U_{BC}$ ; 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 (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 100 mA (without connected Inline I/O terminals)
	max. 1.25 A (with max. number of connected I/O terminal blocks)
Designation	Communications power (U <sub>L</sub> )
Supply voltage	7.5 V DC ±5 %
Power supply unit	max. 2 A DC
Designation	Supply of analog modules (U <sub>ANA</sub> )



### Technical data

#### Inline potentials

Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Power supply unit	max. 0.5 A DC (observe derating)
Designation	Main circuit supply (U <sub>M</sub> )
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Power supply unit	max. 8 A DC (sum of $U_M + U_S$ )
Designation	Segment circuit supply (U <sub>S</sub> )
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Power supply unit	max. 8 A DC (sum of $U_M + U_S$ )

### Digital inputs

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Connection method	Spring-cage connection
Connection technology	3-wire
Number of inputs	16
Protective circuit	Polarity reversal Suppressor diode
Nominal input voltage U <sub>IN</sub>	24 V DC
Input voltage	24 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Typical input current per channel	typ. 3 mA

#### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-wire
Number of outputs	16
Protective circuit	Short-circuit and overload protection Free running circuit
Output voltage	24 V DC -1 V (At nominal current)
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module	8 A
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Limitation of the voltage induced on circuit interruption	approx30 V

#### Electrical isolation

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



### Technical data

#### Standards and Regulations

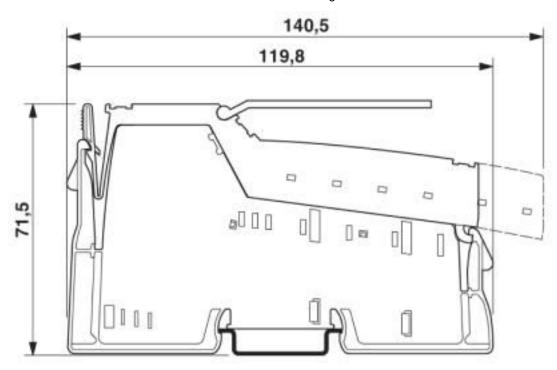
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 Operation: 25g, 11 ms duration, semi-sinusoidal shock impulse

#### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

#### Dimensional drawing



#### Classifications

#### eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 4.0	27250200
eCl@ss 4.1	27250200
eCl@ss 5.0	27250200
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608



#### Classifications

#### eCl@ss

eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

#### **ETIM**

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

#### **UNSPSC**

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## **Approvals**

Approvals

Approvals

EAC

Ex Approvals

#### Approval details

EAC EAC-Zulassung

#### Accessories

Accessories

Data plug



#### Accessories

D-SUB bus connector - SUBCON-PLUS-PROFIB/SC2 - 2708232



D-SUB connector, 9-pos., male connector, cable entry < 35°, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/PG/SC2 - 2708245



D-SUB connector, 9-pos., male connector, cable entry < 35°, 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; screw connection terminal blocks

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/IDC - 2313672



D-SUB connector, 9-pos., male connector, cable entry  $< 90^{\circ}$ , bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/IDC - 2313685



D-SUB connector, 9-pos., male connector, cable entry  $< 90^{\circ}$ , 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; IDC terminal block connection

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/SC - 2313698



D-SUB connector, 9-pos., male connector, cable entry  $< 90^{\circ}$ , bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks



#### Accessories

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/SC - 2313708



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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; screw connection terminal blocks

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/AX/SC - 2744380



D-SUB connector, 9-pos., male connector, axial version with two 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; screw connection terminal blocks

#### End block

End clamp - CLIPFIX 35 - 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

#### Labeling panel

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm

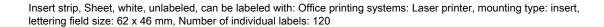


#### Terminal marking



#### Accessories

Insert strip - ESL 62X46 - 0809502





Insert strip - ESL 62X10 - 0809492



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

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300 Fax +49 5235 3 41200

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G3TAOD201SDC24 C200H-LK201-V1 G3TA-OA202SZ-US DC12 GT1-OD16 GT1-AD04CST B7AM-6BS 70GRCQ24-HS 6422
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