

https://www.phoenixcontact.com/in/products/2862246



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline, Bus coupler, PROFIBUS DP, D-SUB-9 female connector, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

### Product description

The bus coupler 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. The bus coupler supports a maximum of 16 PCP devices. 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. The bus coupler does not support PROFIsafe modules. Use the IL PB BK DI8 DO4/EF-PAC bus coupler for this. This bus coupler does not support intrinsically safe Inline terminals or the corresponding power terminal and disconnect terminal block, i.e., all IB IL EX ... items. Use the IL PB BK DI8 DO4/EF-PAC bus coupler for this.

### Your advantages

- · INTERBUS connection via 9-pos. D-SUB socket
- PROFIBUS data transmission speed of 9.6 kbps to 12 Mbps
- · Electrical isolation between PROFIBUS interface and logic
- · DIP switch to set the PROFIBUS address
- Supported PROFIBUS addresses from 0 to 126
- DP/V1 for class 1 and class 2 masters

### Commercial data

Item number	2862246
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRI112
Catalog page	Page 109 (C-6-2019)
GTIN	4017918907471
Weight per piece (including packing)	276 g
Weight per piece (excluding packing)	240 g
Customs tariff number	85389091
Country of origin	DE



https://www.phoenixcontact.com/in/products/2862246



## Technical data

### **Dimensions**

Dimensional drawing	85 - 71,5
Width	85 mm
Height	119.8 mm
Depth	71.5 mm

### Notes

### 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
Number of positions	9
Transmission speed	9.6 kbps 12 Mbps

#### Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps

### Fieldbus: Local bus gateway

Max. number of local bus devices	63
----------------------------------	----

## System properties

## System limits

Number of supported devices	max. 63 (per station)
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

## Module

Module		
ID code (hex)	none	

### Product properties



https://www.phoenixcontact.com/in/products/2862246



Product type	I/O component
Product family	Inline
Type	modular
Scope of delivery	including Inline connector and labeling field
	including miline connector and labeling field
ectrical properties	30 W
Maximum power dissipation for nominal condition	
Protective circuit	Protection against polarity reversal, surge protection (24-V supply $U_{BK}$ and $U_{S}$ )
Potentials: Bus coupler supply $U_{BK}$ ; Communications power $U_L$ (7.5 V) coupler 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. 1.25 A (with max. number of connected I/O terminal blocks
	typ. 100 mA (without connected Inline I/O terminals)
Potentials: Communications power (U <sub>L</sub> )	
Supply voltage	7.5 V DC
Potentials: Supply of analog modules (U <sub>ANA</sub> )	
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 <sub>M</sub> )	
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 <sub>S</sub> )	
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: PROFIBUS/local bus and supply voltage $\mathbf{U}_{\mathrm{BK}}$ and $\mathbf{U}_{\mathrm{S}}$	500 V
Test voltage: PROFIBUS / FE	500 V
Test voltage: PROFIBUS / FE D-SUB	500 V
Test voltage: Local bus and supply voltage $\rm U_{BK}$ and $\rm U_{S}$ / FE	500 V
Test voltage: Local bus and supply voltage $\rm U_{BK}$ and $\rm U_{S}$ / FE D-SUB	500 V
Test voltage: FE / FE D-SUB	500 V
nnection data	
Connection technology	
Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection



2862246

Mounting

Mounting type

https://www.phoenixcontact.com/in/products/2862246

Conductor cross section rigid	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
•	
Conductor cross section flexible	0.08 mm² 1.5 mm²
Conductor cross section AWG	28 16
Stripping length	8 mm
ne 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
conmental and real-life conditions	8 mm
ronmental and real-life conditions	
conmental and real-life conditions bient conditions Ambient temperature (operation)	0 °C 55 °C
conmental and real-life conditions bient conditions Ambient temperature (operation) Degree of protection	0 °C 55 °C
conmental and real-life conditions bient conditions Ambient temperature (operation) Degree of protection Air pressure (operation)	0 °C 55 °C IP20
conmental and real-life conditions bient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport)	0 °C 55 °C IP20 80 kPa 106 kPa (up to 3000 m above sea level)
conmental and real-life conditions bient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport)	0 °C 55 °C  IP20  80 kPa 106 kPa (up to 3000 m above sea level)  70 kPa 106 kPa (up to 3000 m above sea level)
Stripping length  ronmental and real-life conditions  bient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  Permissible humidity (storage/transport)	0 °C 55 °C IP20 80 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C
conmental and real-life conditions bient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)	0 °C 55 °C  IP20  80 kPa 106 kPa (up to 3000 m above sea level)  70 kPa 106 kPa (up to 3000 m above sea level)  -25 °C 85 °C  85 % (non-condensing)

DIN rail mounting

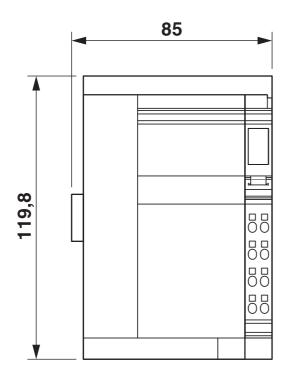


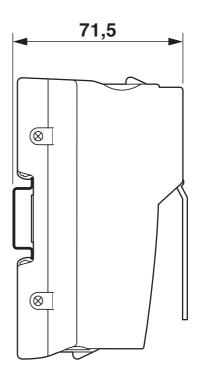
https://www.phoenixcontact.com/in/products/2862246



# Drawings

### Dimensional drawing



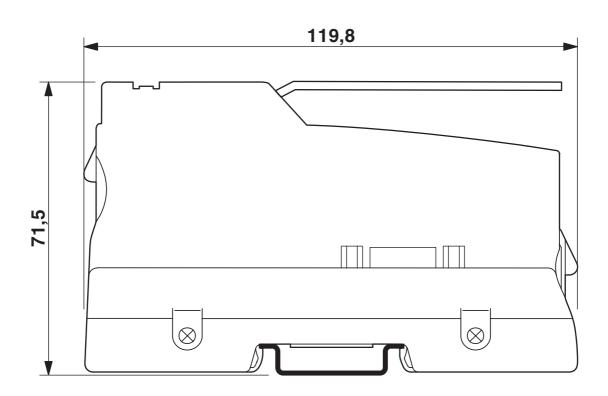




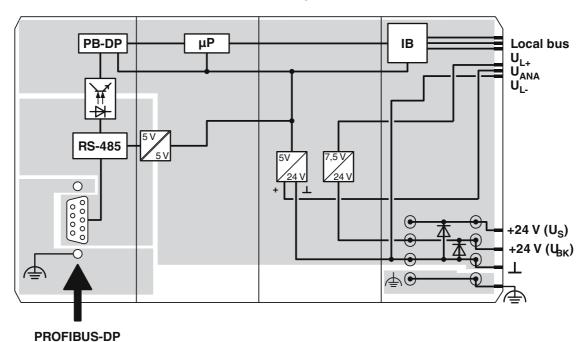
https://www.phoenixcontact.com/in/products/2862246



## Dimensional drawing



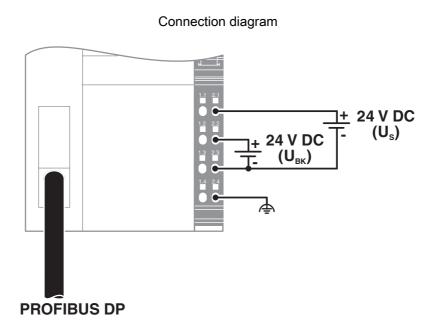
## Block diagram





https://www.phoenixcontact.com/in/products/2862246







2862246

https://www.phoenixcontact.com/in/products/2862246

# **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/2862246



EAC

Approval ID: TR\_TS\_D\_00850-20



**UL Listed** 

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

#### **UAE-RoHS**

Approval ID: 22-04-13087



cUL Listed

Approval ID: FILE E 199827



**UL Listed** 

Approval ID: FILE E 199827

cULus Listed

**cULus Listed** 



2862246

https://www.phoenixcontact.com/in/products/2862246

# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608
ETIM	
ETIM 9.0	EC001604
UNSPSC	

32151600



https://www.phoenixcontact.com/in/products/2862246



# Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	7fa1d4a7-2732-4590-b73f-9de616d4d189



https://www.phoenixcontact.com/in/products/2862246



### Accessories

IB IL SCN-PWR IN-CP - Inline connector

2727637

https://www.phoenixcontact.com/in/products/2727637



Connector, colored, for Inline power and segment terminal blocks

### IB IL FIELD 2 - Marking field

2727501

https://www.phoenixcontact.com/in/products/2727501

Marking field, width: 12.2 mm





https://www.phoenixcontact.com/in/products/2862246



#### ESL 62X10 - Insert strip

0809492

https://www.phoenixcontact.com/in/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/in/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



https://www.phoenixcontact.com/in/products/2862246



### CLIPFIX 35 - End bracket

3022218

https://www.phoenixcontact.com/in/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/SC2 - D-SUB bus connector

2708232

https://www.phoenixcontact.com/in/products/2708232



D-SUB connector, 9-pos., male connector, 35° cable entry, 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



https://www.phoenixcontact.com/in/products/2862246



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

#### 2708245

https://www.phoenixcontact.com/in/products/2708245



D-SUB connector, 9-pos., male connector, 35° cable entry, 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

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

#### 2313672

https://www.phoenixcontact.com/in/products/2313672



D-SUB connector, 9-pos., male connector, 90° cable entry, 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



https://www.phoenixcontact.com/in/products/2862246



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

2313685

https://www.phoenixcontact.com/in/products/2313685



D-SUB connector, 9-pos., male connector, 90° cable entry, 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

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

2313698

https://www.phoenixcontact.com/in/products/2313698



D-SUB connector, 9-pos., male connector, 90° cable entry, 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



https://www.phoenixcontact.com/in/products/2862246



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

2313708

https://www.phoenixcontact.com/in/products/2313708



D-SUB connector, 9-pos., male connector, 90° cable entry, 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

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

2744380

https://www.phoenixcontact.com/in/products/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



https://www.phoenixcontact.com/in/products/2862246



#### SUBCON-PLUS-PROFIB/35/M12 - D-SUB bus connector

2902320

https://www.phoenixcontact.com/in/products/2902320



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 35° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

#### SUBCON-PLUS-PROFIB/90/M12 - D-SUB bus connector

2902318

https://www.phoenixcontact.com/in/products/2902318



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° M12 cable glands (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

Phoenix Contact 2024 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in