

https://www.phoenixcontact.com/us/products/2702635



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, CANopen<sup>®</sup>, MINI COMBICON, Extreme conditions version, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including network connector, Inline connector, and marking field

### **Product Description**

The bus coupler is intended for use within a CANopen<sup>®</sup> network. It is the link to the Inline I/O system. Up to 63 Inline devices can be connected to the bus coupler. A corresponding EDS file is available for integrating the Inline station into the programming system. This file can be downloaded via the product at phoenixcontact.net/products.

### Your advantages

- Automatic detection of the baud rate in the CANopen<sup>®</sup> network
- · Programmable modes for behavior in the event of an error
- · Emergency messages
- Integrated termination resistor can be switched on or off via DIP switch
- Supports two SDO servers simultaneously
- · Trigger modes: event, timer, remote request
- · Node and life guarding
- Heartbeat
- Connection to CANopen<sup>®</sup> with 5-pos. MINI COMBICON connector
- · Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- · Coated PCBs

### Commercial Data

Item number	2702635
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DR01
Product Key	DRI113
Catalog Page	Page 106 (C-6-2019)
GTIN	4055626357546
Weight per Piece (including packing)	175.5 g
Weight per Piece (excluding packing)	169 g
Customs tariff number	85176200
Country of origin	DE



https://www.phoenixcontact.com/us/products/2702635



### **Technical Data**

### **Dimensions**

Dimensional drawing	71,5 1
Width	40 mm
Height	119.4 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

### Material specifications

Color	green
-------	-------

### Interfaces

### $\mathsf{CANopen}^{\texttt{®}}$

Number of interfaces	1
Connection method	MINI COMBICON
Number of positions	5
Transmission speed	1 Mbps, 800 kbps, 500 kbps, 250 kbps, 125 kbps, 50 kbps, 20 kbps, 10 kbps (Can be set via DIP switch or automatic detection)

### Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)

Fieldbus: Local bus gateway

### System properties

### System limits

Cycles III III III		
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		
ID code (hex)	none	

### Product properties



https://www.phoenixcontact.com/us/products/2702635



Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including network connector, Inline connector, and marking field
Diagnostics messages	CRC error Message about the emergency object
	I/O error Message about the emergency object
	Power error Message about the emergency object
	Module change errors Message about the emergency object
	Inactive local bus Message about the emergency object
	Inline connection error Message about the emergency object
	Faulty Inline cycles Message about the emergency object

### Electrical properties

#### Potentials

Power consumption	typ. 1.3 W (entire device)
·	
Potentials: Bus coupler supply U <sub>BK</sub> ; Communication coupler supply.	ons power $\rm U_L$ (7.5 V) and the analog supply $\rm U_{ANA}$ (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. 0.9 A (with max. number of connected I/O terminal blocks
	typ. 51 mA (No local bus devices connected)
Potentials: Communications power (U <sub>I</sub> )	
Supply voltage	7.5 V DC
	max. 0.8 A
Power consumption	typ. 1.3 W (entire device)
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)
	max. 0.5 A
Potentials: Main circuit supply (U <sub>M</sub> )	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
	max. 8 A (sum of U <sub>M</sub> + U <sub>S</sub> )

### Connection data

Connection	technology
------------	------------

Supply voltage

Supply voltage range

Potentials: Segment circuit supply (U<sub>S</sub>)

••		
	Connection name	Inline connector

24 V DC (via Inline connector)

max. 8 A (sum of  $U_M + U_S$ )

 $19.2\ V\ DC\ ...\ 30\ V\ DC$  (including all tolerances, including ripple)



https://www.phoenixcontact.com/us/products/2702635



#### Conductor connection

Connection method	Spring-cage connection
Conductor cross section solid	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

### Inline connector

Connection method	Spring-cage connection
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

### Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C (Standard)
	-40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
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)	-40 °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)
------------------	---------------------------------------

### Mounting

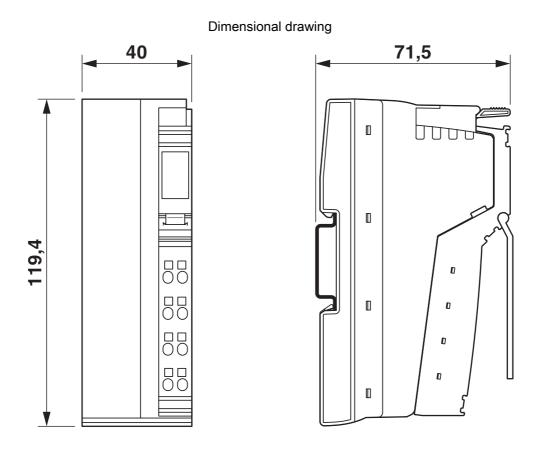
Mounting type	DIN rail mounting
---------------	-------------------



https://www.phoenixcontact.com/us/products/2702635



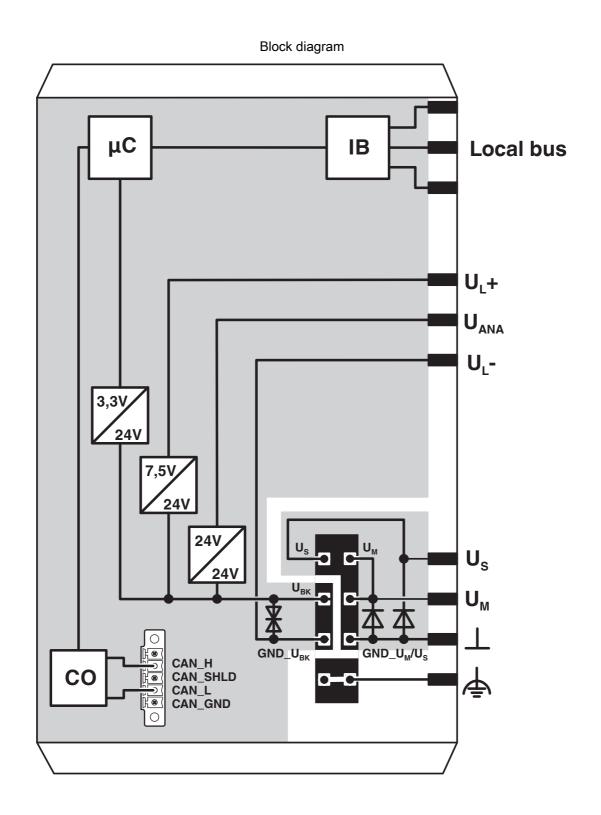
### Drawings





https://www.phoenixcontact.com/us/products/2702635







2702635

https://www.phoenixcontact.com/us/products/2702635

### **Approvals**



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705

cULus Listed



2702635

https://www.phoenixcontact.com/us/products/2702635

### Classifications

### **ECLASS**

	ECLASS-9.0	27242608	
	ECLASS-10.0.1	27242608	
	ECLASS-11.0	27242608	
	ECLASS-12.0	27242608	
	ECLASS-13.0	27242608	
ETIM			
	ETIM 8.0	EC001604	

### UNSPSC



https://www.phoenixcontact.com/us/products/2702635



### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



https://www.phoenixcontact.com/us/products/2702635



### Accessories

IB IL FIELD 2 - Labeling field

2727501

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

Labeling field, width: 12.2 mm



### ESL 62X10 - Insert strip

0809492

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





https://www.phoenixcontact.com/us/products/2702635



### CLIPFIX 35-5 - End clamp

3022276

https://www.phoenixcontact.com/us/products/3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

### CLIPFIX 35 - End clamp

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



https://www.phoenixcontact.com/us/products/2702635



#### MC 1.5/5-STF-3.5 - PCB connector

1847084

https://www.phoenixcontact.com/us/products/1847084



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: MC 1,5/..-STF, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

#### FMC 1,5/5-STF-3,5 - Printed-circuit board connector

1966127

https://www.phoenixcontact.com/us/products/1966127



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard



https://www.phoenixcontact.com/us/products/2702635



#### TFMC 1,5/5-STF-3,5 - Printed-circuit board connector

1772731

https://www.phoenixcontact.com/us/products/1772731



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 10, product range: TFMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com