

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



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Inline, Bus coupler, CANopen®, 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® 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 www.phoenixcontact.com/products.

Your advantages

- · Automatic detection of the baud rate in the CANopen® 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® 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



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Technical data

Dimensions

Dimensional drawing	71.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Width	40 mm
Height	119.4 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Note on application

Note on application	Only for industrial use
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Interfaces

CANopen®

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

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

Fieldbus: Loc	al bus	gateway

Max. number of local bus devices	63 (Consider the logic current consumed by the devices)
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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	
ID code (hex)	none



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Product properties

Product type	I/O component
Product family	Inline
Туре	modular
Scope of delivery	including network connector, Inline connector, and marking field
Special properties	Extreme conditions version
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
ata management status	
Article revision	05

Electrical properties

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.

1 11 7	
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 _L)	
Supply voltage	7.5 V DC
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 (via Inline connector)
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 (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)

Connection data

Connection name	Inline connector
Conductor connection	



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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
	8 mm
Stripping length	O IIIIII
Stripping length Inline connector	Ollini
5	Spring-cage connection
Inline connector	
Inline connector Connection method	Spring-cage connection
Inline connector Connection method Conductor cross section, rigid	Spring-cage connection 0.08 mm² 1.5 mm²

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)
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Mounting

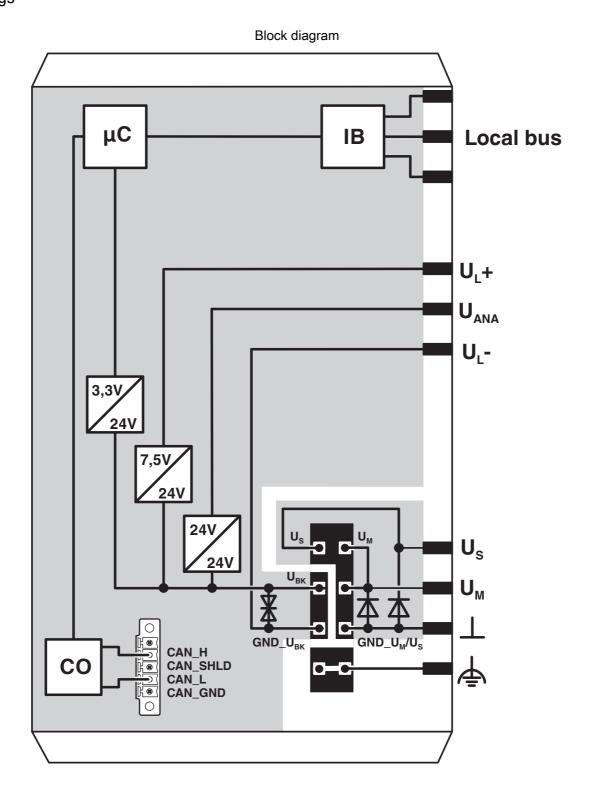
Mounting type	DIN rail mounting
Thread type	()



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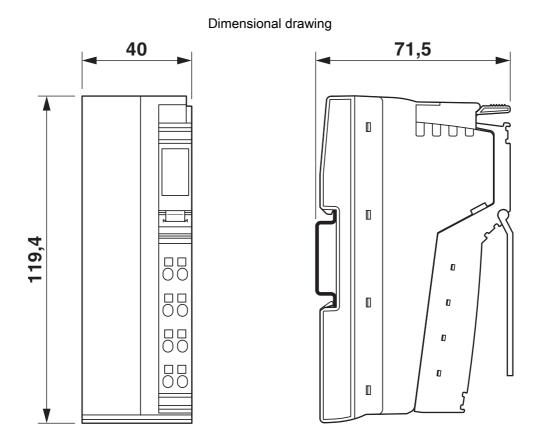
Drawings





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702635

UAE-RoHS

Approval ID: 22-04-13087



cULus ListedApproval ID: E238705



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Classifications

UNSPSC 21.0

ECLASS

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

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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	08167139-aec0-4477-9a00-41165f285821

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