

https://www.phoenixcontact.com/gb/products/2702230



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Inline, Bus coupler, CANopen[®], MINI COMBICON, 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 phoenixcontact.net/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



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Commercial Data

Order Key	2702230
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI113
Product Key	DRI113
Catalog Page	Page 106 (C-6-2019)
GTIN	4055626134949
Weight per Piece (including packing)	177 g
Weight per Piece (excluding packing)	168.5 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

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Material specifications

Color green	
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Interfaces

CANopen[®]

No. of channels	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)

$\mathsf{CANopen}^{\scriptscriptstyle{\circledR}}$

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Inline local bus

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Transmission speed

System properties



500 kbps / 2 Mbps (automatic detection, no combined system)

System limits			
Amount of process data	max. 512 Byte (Sum of the inputs and outputs for 64 PDOs with 8 bytes each)		
	max. 256 Byte (Input)		
	max. 256 Byte (Output)		
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		
oduct properties			
Туре	modular		
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		
ectrical properties			
Potentials	Faulty Inline cycles Message about the emergency object typ. 1.3 W (entire device)		
Potentials Power consumption Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V)	Faulty Inline cycles Message about the emergency object typ. 1.3 W (entire device)		
Potentials Power consumption Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V) coupler supply.	Faulty Inline cycles Message about the emergency object typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage	Faulty Inline cycles Message about the emergency object typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range	Faulty Inline cycles Message about the emergency object typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range Current draw	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L)	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks) typ. 51 mA (No local bus devices connected)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L)	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks) typ. 51 mA (No local bus devices connected)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks) typ. 51 mA (No local bus devices connected)		
Potentials Power consumption Potentials: Bus coupler supply U _{BK} ; Communications power U _L (7.5 V) coupler supply. Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage	typ. 1.3 W (entire device) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 0.9 A (with max. number of connected I/O terminal blocks) typ. 51 mA (No local bus devices connected) 7.5 V DC max. 0.8 A		



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Mounting type



Supply voltage	24 V DC (via Inline connector)
Supply voltage range 19.2 V DC 30 V DC (including all tolerance	
	max. 8 A (sum of $U_M + U_S$)
otentials: 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
	max. 8 A (sum of $U_M + U_S$)
nnection data	
onnection technology	
Connection name	Inline connector
onductor connection	
Connection method	Spring-cage connection
Conductor cross section solid	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
nline 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
bient conditions	
Ambient temperature (operation)	-25 °C 55 °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)	-40 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
ndards and regulations	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

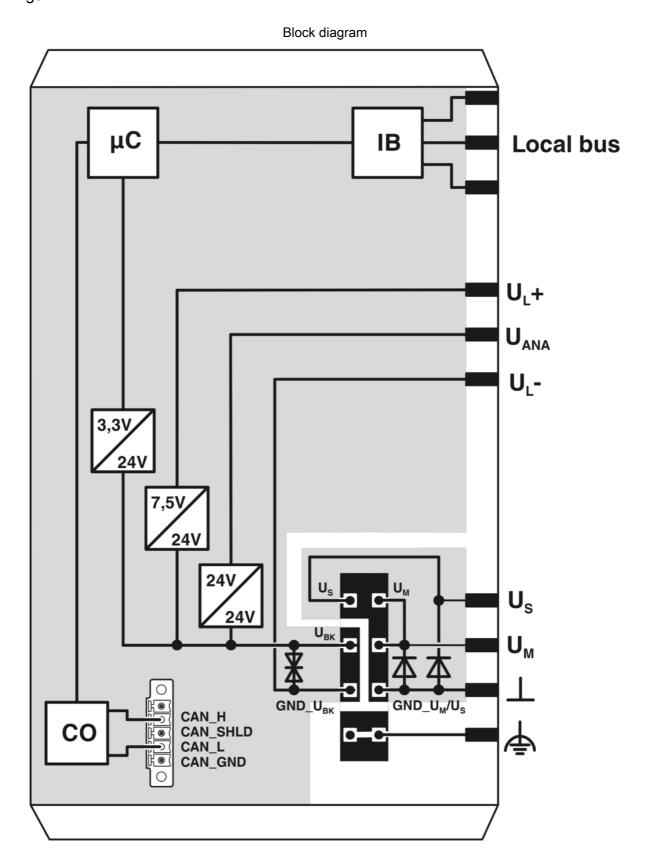
DIN rail

2702230

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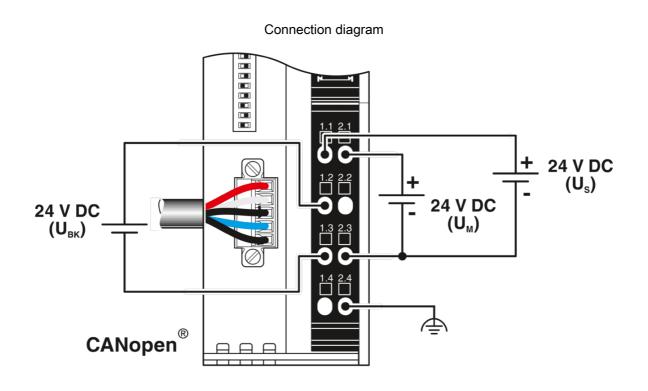
Drawings



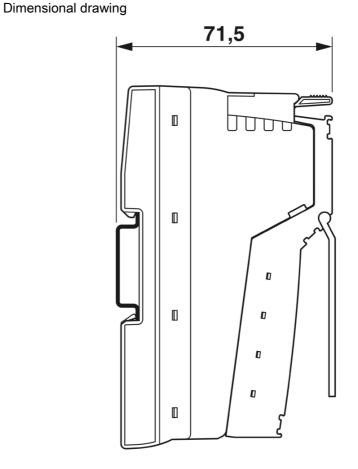


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40





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Approvals			
UL Listed	Q		
cUL Listed	№		
cULus Listed	d		



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Classifications

ECLASS

ECLASS-9.0	27242608
ECLASS-10.0.1	27242608
ECLASS-11.0	27242608

ETIM

UNSPSC

UNSPSC 21.0 321516	02
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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"



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Accessories

End clamp

End clamp - CLIPFIX 35-5 - 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

End clamp

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



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Insert strip

Insert strip - ESL 62X10 - 0809492



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

Printed-circuit board connector

Printed-circuit board connector - MC 1,5/5-STF-3,5 - 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: MINI COMBICON, Locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard



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Printed-circuit board connector

Printed-circuit board connector - FMC 1,5/5-STF-3,5 - 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: MINI COMBICON, Locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

Printed-circuit board connector

Printed-circuit board connector - TFMC 1,5/5-STF-3,5 - 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: MINI COMBICON, Locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard



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Labeling field

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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