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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
- 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
- ☑ Connection to CANopen® with 5-pos. MINI COMBICON connector



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 134949
GTIN	4055626134949
Weight per Piece (excluding packing)	180.000 g
Custom tariff number	85176200
Country of origin	Germany



Technical data

Note

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

Dimensions

Width	40 mm
Height	119.4 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
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)
Degree of protection	IP20

General

Mounting type	DIN rail
Color	green
Net weight	168.5 g
Note on weight specifications	with connectors
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

Interfaces

Designation	CANopen [®]
Number	1
Connection method	MINI COMBICON
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)
Number of positions	5
Designation	Inline local bus



Technical data

Interfaces

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

Network/bus system

Amount of process data	max. 512 Byte (Sum of the inputs and outputs for 64 PDOs with 8 bytes each)
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
Designation	CANopen [®]
Device profile	CiA 401 V3.0

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. 51 mA (No local bus devices connected)
	max. 0.9 A (with max. number of connected I/O terminal blocks)
Designation	Communications power (U _L)
Supply voltage	7.5 V DC
Power supply unit	max. 0.8 A
Designation	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)
Power supply unit	max. 0.5 A DC
Designation	Main circuit supply (U _M)
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 (sum of U _M + U _S)
Designation	Segment circuit supply (U _S)
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 (sum of U _M + U _S)
Power consumption	typ. 1.3 W (entire device)

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
1 Totalion dass	III (120 01140, 214 01140, VBE 0140-1)



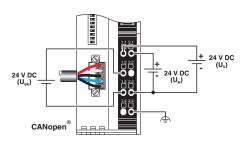
Technical data

Environmental Product Compliance

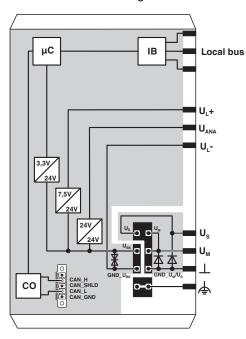
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

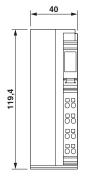
Connection diagram

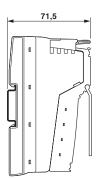


Block diagram



Dimensional drawing







Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	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
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

UL Listed / cUL Listed / cULus Listed



Approvals

Ex Approvals

Approval details

UL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

cULus Listed



Accessories

Accessories

End block

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 - 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



Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



PCB plug

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 per row: 5, number of connections: 5, product range: MC 1,5/..-STF, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, plug-in system: MINI COMBICON, Locking: Screw locking, type of packaging: packed in cardboard

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 per row: 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 °, Locking: Screw locking, type of packaging: packed in cardboard

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 per row: 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, type of packaging: packed in cardboard

Terminal marking

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



Accessories

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