

IL CAN BK-TC-PAC - Bus coupler



2718701

<https://www.phoenixcontact.com/us/products/2718701>

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Inline, Bus coupler, CANopen®, TWIN COMBICON, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including network connector, Inline connector, and marking field

Product description

The CANopen® fieldbus coupler enables the flexible INTERBUS Inline automation kit to be operated on CANopen® networks as well. The fieldbus coupler allows an INTERBUS Inline station to be inserted at any point in a CANopen® network. The fieldbus coupler is a slave in the CANopen® network and a master in the lower-level INTERBUS Inline local bus. The fieldbus coupler allows an INTERBUS Inline station to be inserted at any point in a CANopen® network. The fieldbus coupler is a slave in the CANopen® network and a master in the lower-level INTERBUS Inline local bus. The address of the CANopen® slave can easily be set from outside by means of DIP switches. The CANopen® network is connected via a TWIN COMBICON connector. The operating voltage for the fieldbus coupler and the electronics of the connected automation terminals can be supplied via a separate power connector. For CANopen® configuration, the latest EDS (Electronica Data Sheet) file is available in the Product Information Service (see below). The CANopen® fieldbus coupler supports the proven INTERBUS Inline diagnostics as well as the typical diagnostics for CANopen®. Locally, LEDs enable precise diagnostics. Note the following during configuration: The total logic current of all the terminals connected to a CANopen® network must not exceed the maximum permissible total current of 2 A. Depending on the station configuration, the number of terminals that can be connected may be less than 63

Your advantages

- Slave function in CANopen® network
- Address can be set via DIP switches
- CANopen® connection via TWIN-COMBICON plug
- 63 terminals can be connected
- Diagnostic and status indicators

Commercial data

Item number	2718701
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI113
GTIN	4017918891237
Weight per piece (including packing)	306.3 g
Weight per piece (excluding packing)	240 g
Customs tariff number	85389091
Country of origin	DE

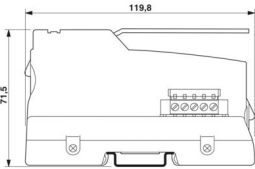
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Technical data

Dimensions

Dimensional drawing	
Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Notes

Utilization restriction

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

Color	green
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Interfaces

CANopen®

No. of channels	1
Connection method	TWIN COMBICON
Number of positions	10
Transmission speed	1 MBaud, 500 kBaud, 250 kBaud, 125 kBaud, 50 kBaud, 20 kBaud, 10 kBaud (Can be set via DIP switch or programmed)
Address area assignment	0 ... 63, can be set

Inline local bus

No. of channels	1
Connection method	Inline data jumper
Transmission speed	500 kbps

Fieldbus: Local bus gateway

Max. number of local bus devices	63 (The on-board I/Os are two 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. 8

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Number of supported branch terminals with remote bus branch	0
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Module

ID code (hex)	none
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Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including network connector, Inline connector, and marking field

Electrical properties

Maximum power dissipation for nominal condition	30 W
Protective circuit	Surge protection; Suppressor diode
	Reverse polarity protection; Suppressor diode

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.

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (via Inline connector)
Current draw	max. 1.25 A

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC \pm 5 %
Power supply	max. 2 A 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)
Power supply	max. 0.5 A DC

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

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

Electrical isolation/isolation of the voltage ranges

Test voltage: CANopen®/local bus	500 V
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Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient 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)	-45 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
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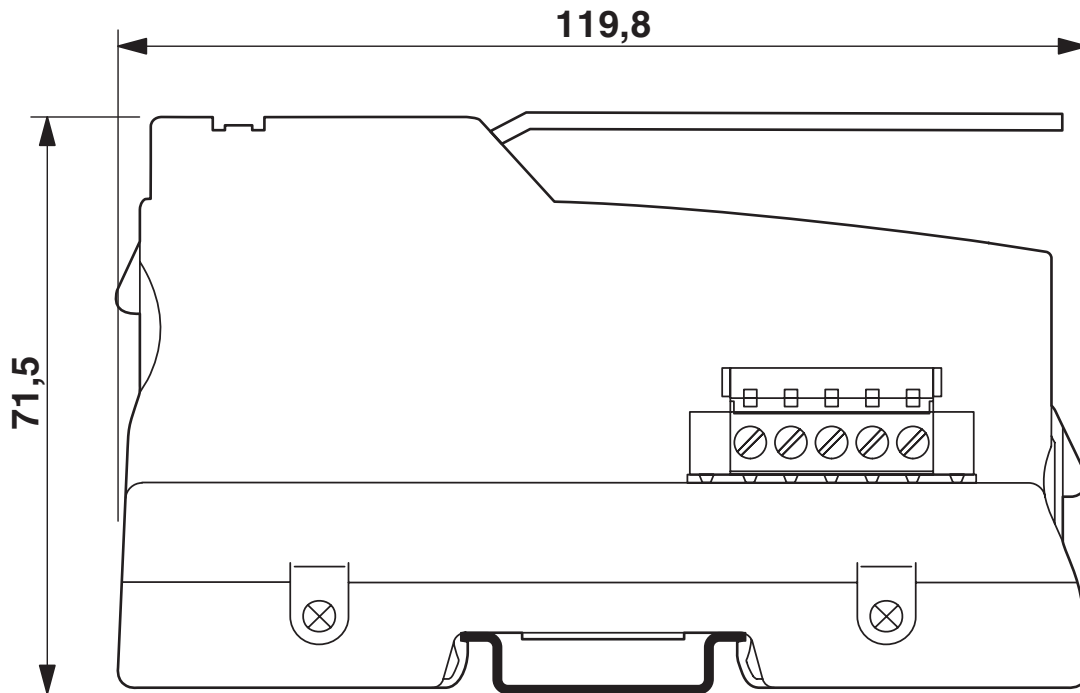
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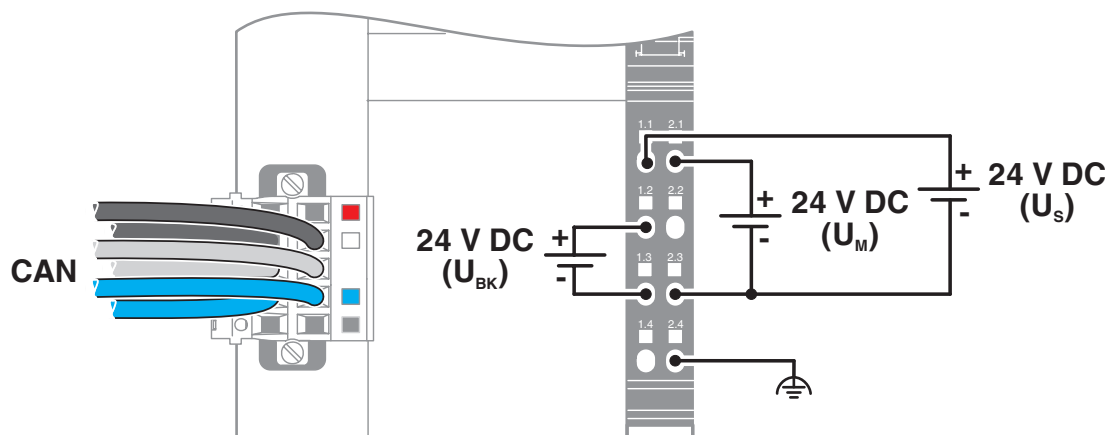
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Drawings

Dimensional drawing



Connection diagram

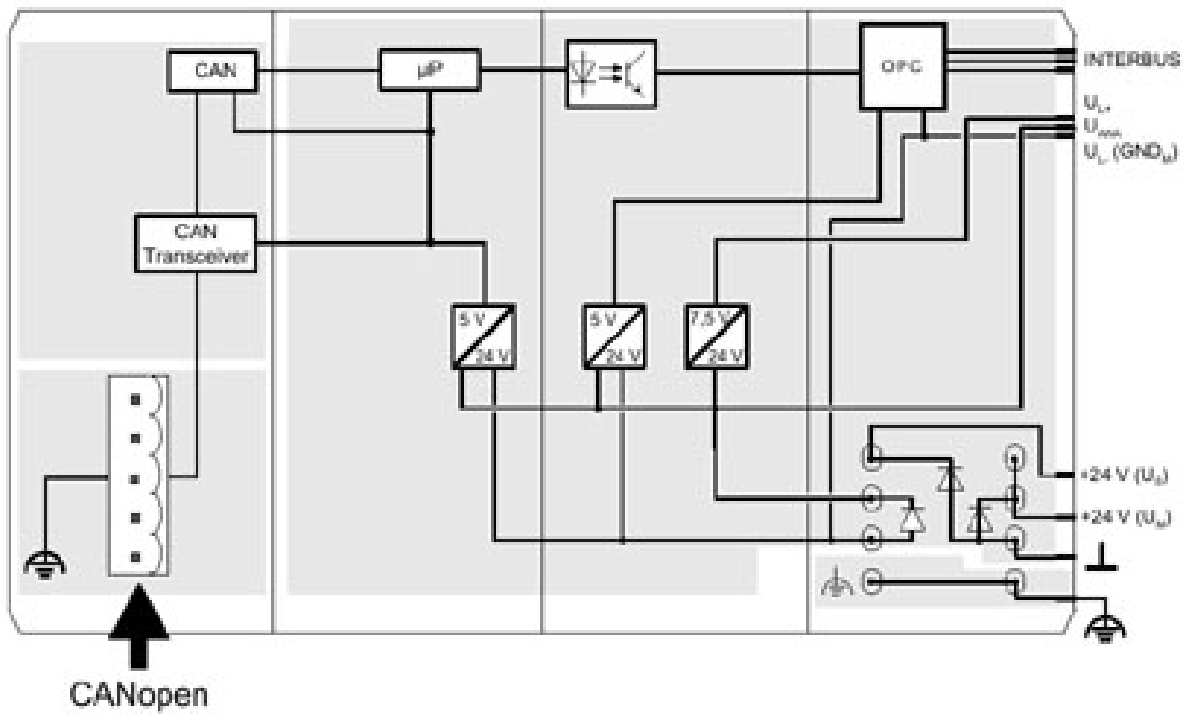


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Block diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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