

Bus coupler - IL CAN BK-TC-PAC - 2718701

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CANopen® bus coupler, 24 V DC, bus interface 2 x 5-pos. TWIN-COMBICON connector, complete with accessories (plug and labeling field)

Product Description

The CANopen® fieldbus coupler enables the flexible INTERBUS Inline automation kit to be operated in 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 address of the CANopen® slave can easily be set via DIP switches from outside. The CANopen® network is connected via a Twin Combicon plug. The operating voltage for the fieldbus coupler and the electronics can be fed using a separate power plug.

For the CANopen® project planning, a regularly updated EDS file (Electronica Data Sheet) is provided in the Product Information Service (see below). The CANopen® fieldbus coupler supports the proven INTERBUS Inline diagnostics as well as the typical diagnostics objects for CANopen®. Local LEDs enable precise diagnostics.

Please note the following when you configure the system:

The total logic current of all terminals connected to a CANopen® network must not exceed the maximum permissible total current of 2 A. Therefore, depending on your configuration, the number of terminal blocks that you can connect may be less than 63.

Product Features

- 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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	307.4 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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Technical data

Note

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

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
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)
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

Net weight	299 g
Note on weight specifications	with connectors
Mounting type	DIN rail

Interfaces

Fieldbus system	CANopen®
Designation	CANopen®
Connection method	TWIN COMBICON
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
Number of positions	10
Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper

System limits of the bus coupler

Designation	System limits of the bus coupler
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
Number of supported branch terminals with remote bus branch	0

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Technical data

Power supply for module electronics

Connection method	Spring-cage connection
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	max. 1.25 A (from U_{BK})

Inline potentials

Communications power U_L	7.5 V DC $\pm 5\%$
Power supply at U_L	max. 2 A DC
Main circuit supply U_M	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at U_M	max. 8 A DC (Sum of $U_M + U_S$)
Segment circuit supply U_S	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at U_S	max. 8 A DC (Sum of $U_M + U_S$)
I/O supply voltage U_{ANA}	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at U_{ANA}	max. 0.5 A DC

Standards and Regulations

Test section	CANopen/local bus 500 V
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

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Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized	
Nominal current IN	0.06 A
Nominal voltage UN	24 V

cUL Recognized	
Nominal current IN	0.06 A
Nominal voltage UN	24 V

EAC

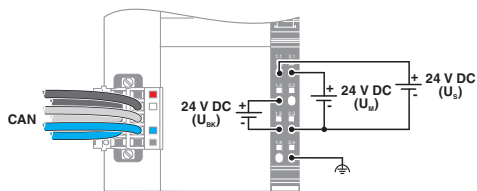
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Approvals

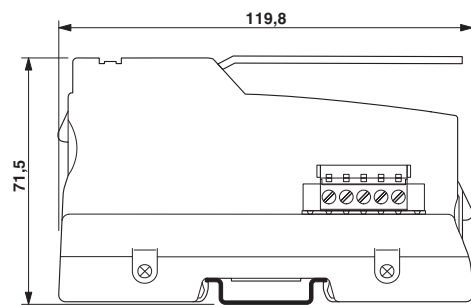


Drawings

Connection diagram



Dimensional drawing



Block diagram

