

Bus coupler - IL DN BK3-PAC - 2718785

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Inline, Bus coupler, DeviceNet™, TWIN COMBICON, connection method: Spring-cage connection, degree of protection: IP20

Product Description

The DeviceNet™ fieldbus coupler enables the flexible INTERBUS Inline automation kit to be operated with DeviceNet™ as well. The fieldbus coupler allows an INTERBUS Inline station to be inserted at any point in a DeviceNet™ network. The fieldbus coupler is a slave in the DeviceNet™ and a master in the lower-level INTERBUS Inline local bus. The address of the DeviceNet™ slave can easily be set from outside by means of DIP switches. DeviceNet™ 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 DeviceNet™ project planning, a regularly updated EDS file (Electronica Data Sheet) is provided in the Product Information Service (see below). The DeviceNet™ fieldbus coupler supports the proven INTERBUS Inline diagnostics as well as the typical diagnostics objects for the DeviceNet. Local LEDs enable precise diagnostics.

Please note the following when you configure the system:


The total logic current of all terminals connected to a DeviceNet™ fieldbus coupler 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.

Your advantages

- Up to 63 I/O terminals can be connected
- Diagnostic and status indicators

DeviceNet

Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 890049
GTIN	4017918890049
Weight per Piece (excluding packing)	300.000 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 area
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Technical data

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)	95 % (non-condensing)
Permissible humidity (storage/transport)	85 % (non-condensing)
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3500 m above sea level)
Degree of protection	IP20

General

Mounting type	DIN rail
Color	green
Net weight	240 g
Note on weight specifications	with connectors

Interfaces

Designation	DeviceNet™
No. of channels	1
Connection method	TWIN COMBICON
Transmission speed	500 kBaud, 250 kBaud, 125 kBaud (Can be set via DIP switch or programmed)
Number of positions	10
Designation	Inline local bus
Connection method	Inline data jumper
Designation	Supply
Connection method	8-pos. Inline connector

System limits of the bus coupler

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

Inline potentials

Current consumption	max. 1.25 A
Designation	Communications power (U _L)
Supply voltage	7.5 V DC ±5 %

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Technical data

Inline potentials

Power supply unit	max. 2 A DC (observe derating)
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 (observe derating)
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 DC (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 DC (sum of $U_M + U_S$)

Digital inputs

Connection technology	Spring-cage connection
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Standards and Regulations

Connection in acc. with standard	CUL
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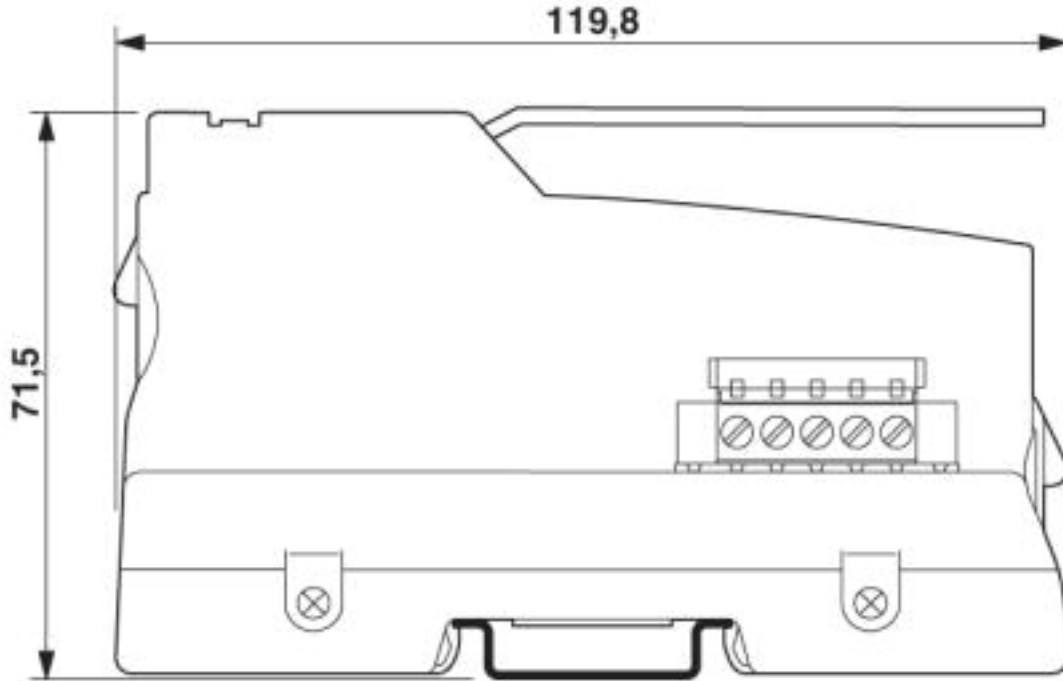
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

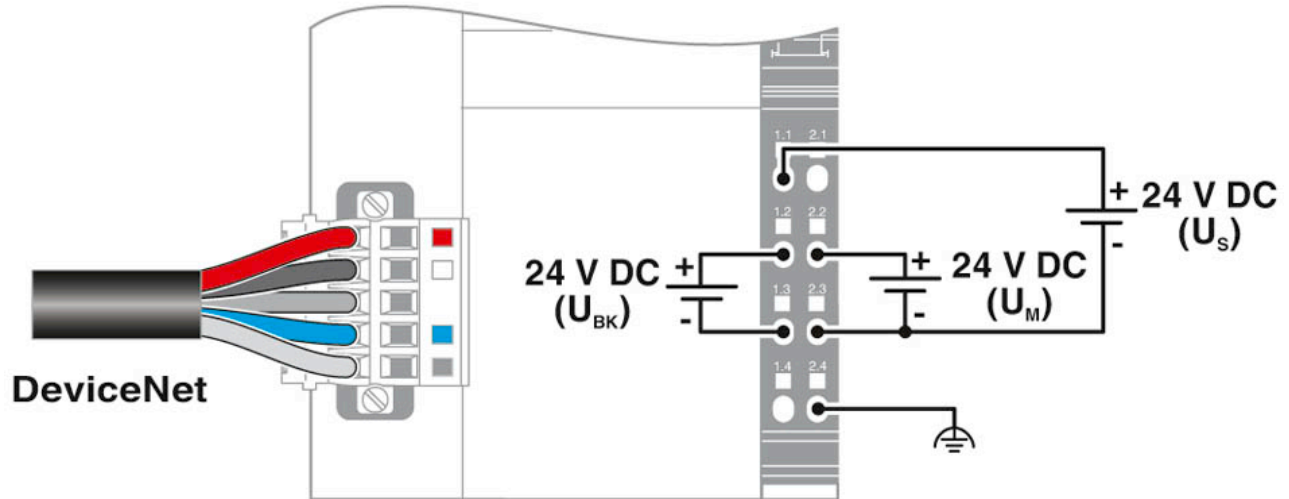
Bus coupler - IL DN BK3-PAC - 2718785

Dimensional drawing



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Connection diagram



Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
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

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Classifications

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

Accessories

Accessories

End block

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

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

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Accessories

Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

Plug - TMSTBP 2,5/ 5-STF-5,08 GNAU CP - 2862576



TWIN-COMBICON plug for CANopen® and DeviceNet™ connection

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