

## Bus coupler - IL DN BK3-PAC - 2718785

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DeviceNet™ bus coupler, 24 V DC, without accessories



### 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.

### Why buy this product

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



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 890049
Weight per Piece (excluding packing)	279.4 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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#### Dimensions

Width	85 mm
Height	119.8 mm

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## Technical data

### Dimensions

Depth	71.5 mm
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### 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 mean sea level)
Degree of protection	IP20

### General

Weight	240 g
Note on weight specifications	with male connectors
Mounting type	DIN rail

### Interfaces

Fieldbus system	Lokalbus
Name	Inline local bus
Connection method	Inline data jumper
Fieldbus system	DeviceNet™
Name	DeviceNet™
Connection method	2x 5-pos. TWIN-COMBICON connectors
Transmission speed	500 kBaud, 250 kBaud, 125 kBaud (Can be set via DIP switch or programmed)
Number of positions	10
Name	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 branch terminals with remote bus branch	0

### Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Supply current	typ. 100 mA (No local bus devices connected)
Current consumption	max. 1.25 A

### Inline potentials

Communications power $U_L$	7.5 V DC $\pm$ 5 %
Power supply at $U_L$	max. 2 A DC (observe derating)
Main circuit supply $U_M$	24 V DC -15 % / +20 % (acc. to EN 61131-2)

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## Technical data

### Inline potentials

Power supply at $U_M$	max. 8 A DC (Sum of $U_M + U_S$ )
Segment supply voltage $U_S$	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 (observe derating)

### Digital inputs

Connection method	Spring-cage connection
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## 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

### 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 / GOST / DeviceNet™ / null / DeviceNet / null / null / null / null / null / null / null / null / DeviceNet / null / null / null / null / null / null / null / null / DeviceNet / null / null / null / null / cULus Recognized

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## Approvals


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

GOST 
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DeviceNet™
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DeviceNet
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## Bus coupler - IL DN BK3-PAC - 2718785

### Approvals

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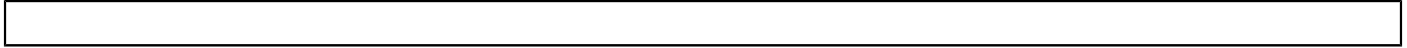
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## Bus coupler - IL DN BK3-PAC - 2718785

### Approvals



### 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

Inline plug - 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

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## Accessories

### Terminal marking

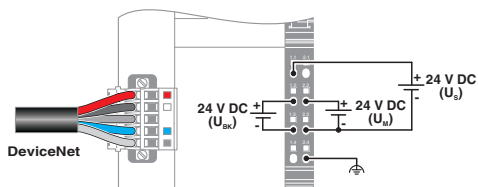
Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

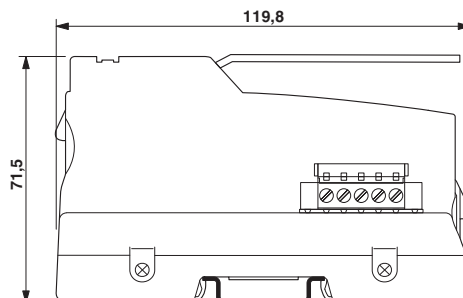


## Drawings

Connection diagram



Dimensioned drawing



Block diagram

