

IBS IL 24 BK-DSUB-PAC - Bus coupler



2861593

<https://www.phoenixcontact.com/nz/products/2861593>

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Inline, Bus coupler, INTERBUS, D-SUB-9 female/D-SUB-9 male, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected devices.

Your advantages

- Remote bus connections using copper technology
- Electrical isolation

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2861593 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNI111 |
| Product key | DRI111 |
| Catalog page | Page 107 (C-6-2019) |
| GTIN | 4017918894443 |
| Weight per piece (including packing) | 292 g |
| Weight per piece (excluding packing) | 210 g |
| 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

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Interfaces

INTERBUS

| | |
|----------------------|-----------------------------|
| Number of interfaces | 2 |
| Connection method | D-SUB-9 female/D-SUB-9 male |
| Transmission speed | 500 kbps |
| Transmission physics | Copper |

Inline local bus

| | |
|----------------------|--------------------|
| Number of interfaces | 1 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |

System properties

System limits

| | |
|---|---------|
| Number of supported devices | max. 63 |
| Number of local bus devices that can be connected | max. 63 |
| Number of devices with parameter channel | 62 |
| Number of supported branch terminals with remote bus branch | max. 15 |

Module

| | |
|----------------------|-------|
| ID code (dec.) | 04 |
| ID code (hex) | 04 |
| Length code (hex) | 00 |
| Length code (dec) | 00 |
| Process data channel | 0 bit |

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| | |
|---------------------|--------|
| Input address area | 0 Byte |
| Output address area | 0 Byte |
| Register length | 0 bit |

Product properties

| | |
|-------------------|---|
| Type | modular |
| Product type | I/O component |
| Product family | Inline |
| Scope of delivery | including Inline connector and labeling field |

Electrical properties

| | |
|---|-----------------------------|
| Maximum power dissipation for nominal condition | 30 W |
| Protective circuit | Reverse polarity protection |

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 (via Inline connector) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 1.25 A (with max. number of connected I/O terminal blocks) typ. 100 mA (without connected Inline I/O terminals) |

Potentials: Communications power (U_L)

| | |
|----------------|--------------------|
| Supply voltage | 7.5 V DC \pm 5 % |
|----------------|--------------------|

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) |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Conductor connection

| | |
|----------------------------------|--|
| 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 |

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

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Ambient conditions

| | |
|--|--|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 80 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) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.) |
| Permissible humidity (storage/transport) | 75 % ... 85 % (Slight temporary condensation may sometimes appear on the housing, e.g. when the terminal block is brought out of a vehicle into an enclosed room.) |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

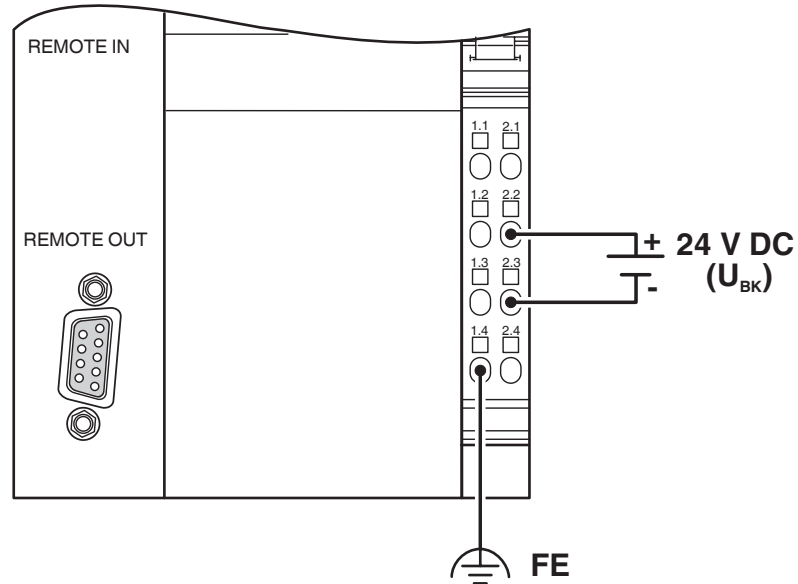
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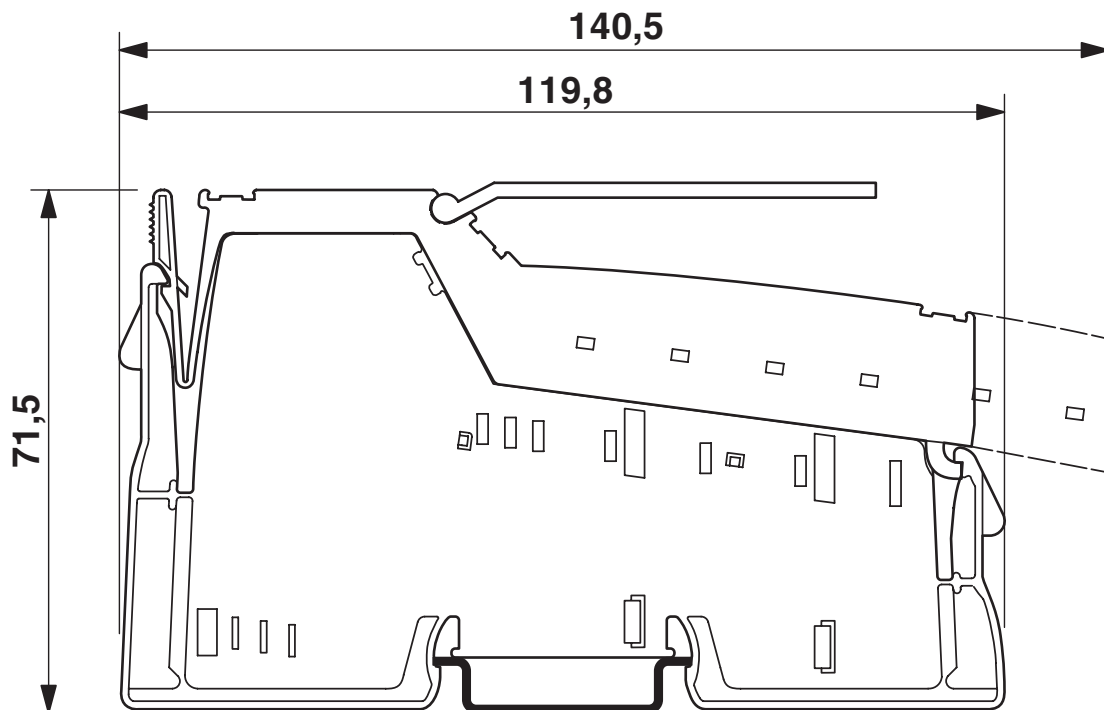
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Drawings

Connection diagram



Dimensional drawing



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Approvals

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UL Recognized

Approval ID: FILE E 140324



EAC

Approval ID: RU*DE*08.B.00529/19



DNV GL

Approval ID: TAA00000BN



LR

Approval ID: LR22191720TA



BV

Approval ID: 21594/C0 BV

BSH

Approval ID: 658a

ABS

Approval ID: 22-2226444-PDA

UAE-RoHS

Approval ID: 22-04-13087



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827

cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27242608 |
| ECLASS-12.0 | 27242608 |
| ECLASS-13.0 | 27242608 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001604 |
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UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

IB IL SCN-8-CP - Inline connector

2727608

<https://www.phoenixcontact.com/nz/products/2727608>

Inline connector, colored



IB IL FIELD 2 - Marking field

2727501

<https://www.phoenixcontact.com/nz/products/2727501>

Marking field, width: 12.2 mm



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ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/nz/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



E/UK - End clamp

1201442

<https://www.phoenixcontact.com/nz/products/1201442>

End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35



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PHOENIX CONTACT Ltd
Unit 15C, 906-930 Great South Road, Penrose
Auckland 1061
0508 474 636
sales@phoenixcontact.co.nz