

## 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                                 | <br>4 017918 890049 |
| GTIN                                 | 4017918890049   |
| Weight per Piece (excluding packing) | 240.000 g   |
| Custom tariff number                 | 85176200  |
| Country of origin                    | Germany   |
| Note                                 | Made to Order (non-returnable)  |

### Technical data

#### Note

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

#### Dimensions

|       |       |
|-------|-------|
| Width | 85 mm |
|-------|-------|

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### Technical data

#### Dimensions

|        |          |
|--------|----------|
| 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 $\pm$ 5 %   |
| 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)                                   |

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### Technical data

#### Inline potentials

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

#### Standards and Regulations

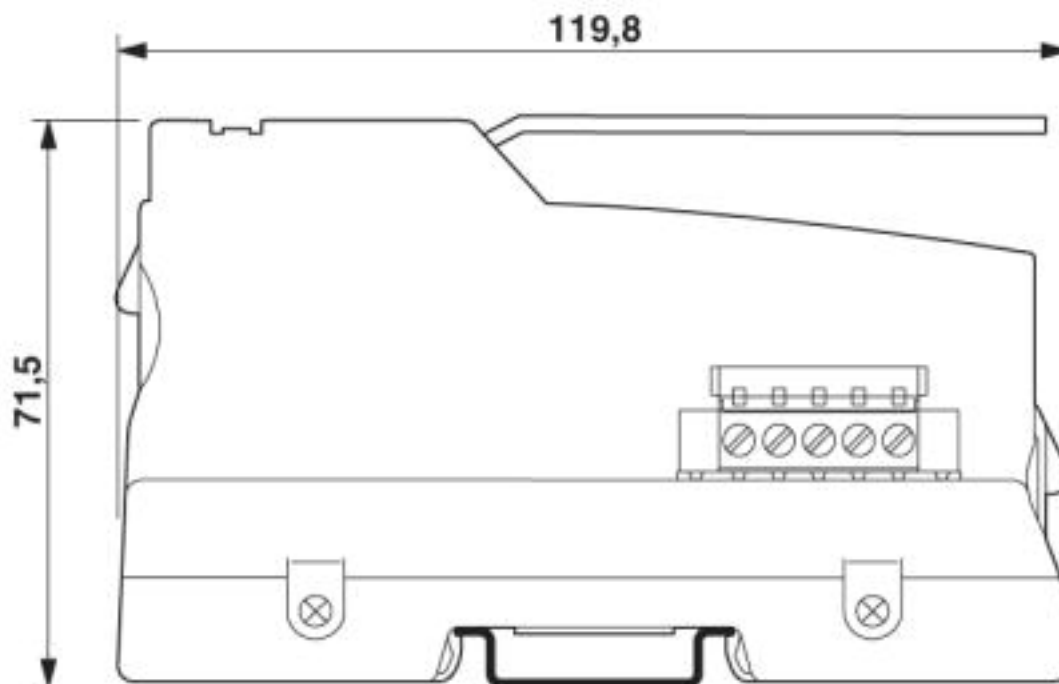
|                                  |     |
|----------------------------------|-----|
| Connection in acc. with standard | CUL |
|----------------------------------|-----|

#### Environmental Product Compliance

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

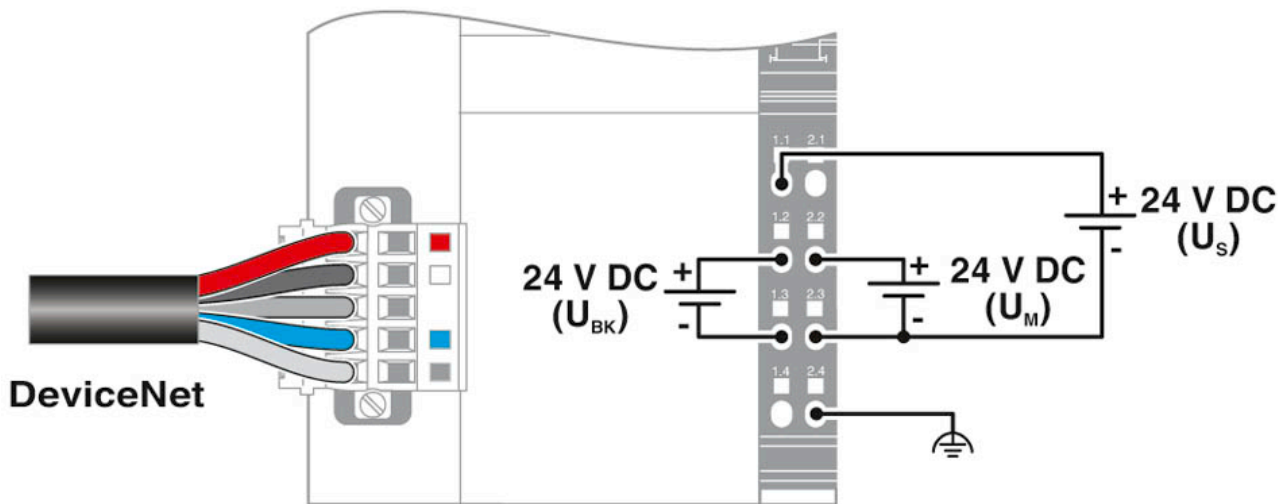
### Drawings

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 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001434 |
| ETIM 3.0 | EC001604 |

<https://www.phoenixcontact.com/gb/products/2718785>



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### Classifications

#### ETIM

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

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