

## Bus coupler - IBS IL 24 BK-LK-2MBD-PAC - 2862068

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Inline, Bus coupler, INTERBUS, F-SMA connector, transmission speed in the local bus: 2 Mbps, 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 analog modules.

### Your advantages

- ✓ Remote bus connections using fiber optic technology
- ✓ Optical path diagnostics

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 974695 |
| GTIN                                 | 4017918974695                                                                                           |
| Weight per Piece (excluding packing) | 314.800 g                                                                                               |
| Custom tariff number                 | 85389091                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Note

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

#### Dimensions

|        |          |
|--------|----------|
| Width  | 85 mm    |
| Height | 119.8 mm |
| Depth  | 71.5 mm  |

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## Technical data

### Ambient conditions

|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| Ambient temperature (operation)          | -25 °C ... 55 °C                                  |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                  |
| Permissible humidity (operation)         | 75 % ... 85 %                                     |
| Permissible humidity (storage/transport) | 75 % ... 85 %                                     |
| 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) |
| Degree of protection                     | IP20                                              |

### General

|                               |              |
|-------------------------------|--------------|
| Mounting type                 | DIN rail     |
| Color                         | green        |
| Net weight                    | 220 g        |
| Note on weight specifications | without plug |

### Interfaces

|                      |                    |
|----------------------|--------------------|
| Designation          | INTERBUS           |
| No. of channels      | 2                  |
| Connection method    | F-SMA connector    |
| Transmission speed   | 2 Mbps             |
| Transmission physics | FO                 |
| Designation          | Inline local bus   |
| Connection method    | Inline data jumper |
| Transmission speed   | 2 Mbps             |

### System limits of the bus coupler

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

### Inline potentials

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (with max. number of connected I/O terminal blocks)                                                                                    |
| 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                                                                                                                                            |

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#### Inline potentials

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| 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)                                   |

#### Electrical isolation

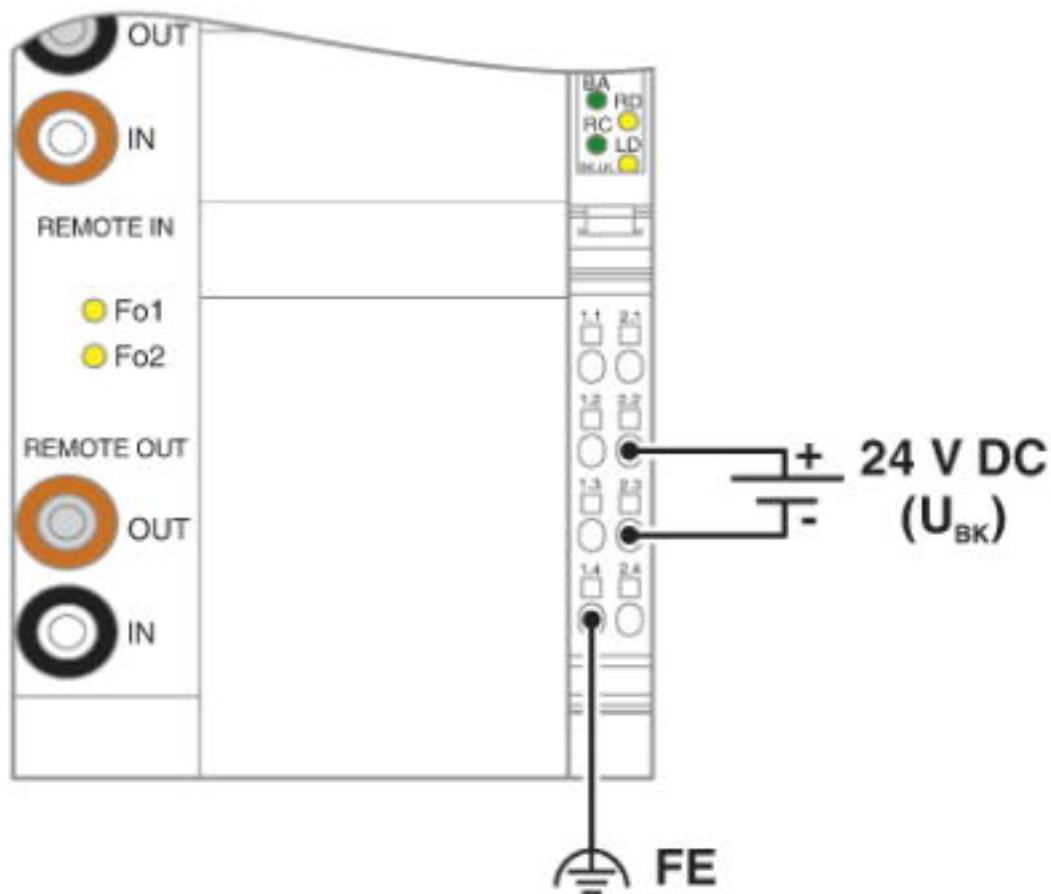
|              |                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| Test section | 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional earth ground 500 V AC 50 Hz 1 min. |
|--------------|-----------------------------------------------------------------------------------------------------------------------|

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
|            | Lead 7439-92-1                                          |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

Connection diagram



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Dimensional drawing



### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250200 |
| eCl@ss 4.1 | 27250200 |
| eCl@ss 5.0 | 27250200 |
| 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 |
| ETIM 4.0 | EC001604 |
| ETIM 5.0 | EC001604 |
| ETIM 6.0 | EC001604 |
| ETIM 7.0 | 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   | 32151602 |

### Approvals

#### Approvals

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UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### Approval details

|           |                                                                                     |                                                                                                                                                       |               |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|            |                                                                                     |                                                                                                                                                       |               |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|              |                                                                                     |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|
| cULus Listed |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|

### Accessories

#### Accessories

End block

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### Accessories

End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

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### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### Plug

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



Inline connector, colored

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### 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