

## Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

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INTERBUS bus coupler, with fiber optic connection with a 45 degree angle, 24 V DC, complete with accessories (plug and labeling field)

### Product Features

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



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 329.8 GRM |
| 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  |

#### 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 %    |

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## Technical data

### Ambient conditions

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

|                               |                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Weight                        | 210 g                                                                                                                     |
| Note on weight specifications | Without plug                                                                                                              |
| Mounting type                 | DIN rail                                                                                                                  |
| Test section                  | 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply/<br>functional earth ground 500 V AC 50 Hz 1 min |

### Interfaces

|                      |                         |
|----------------------|-------------------------|
| Fieldbus system      | INTERBUS                |
| Designation          | INTERBUS                |
| Connection method    | 4x F-SMA angled plugs   |
| Transmission speed   | 500 kBit/s              |
| Transmission physics | FO                      |
| Fieldbus system      | Lokalbus                |
| Designation          | Inline local bus        |
| Connection method    | Inline data jumper      |
| Transmission speed   | 500 kBit/s              |
| Designation          | Supply                  |
| Connection method    | 8-pos. Inline connector |

### 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 branch terminals with remote bus branch | max. 15 |

### Power supply for module electronics

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Connection method    | Inline connector                                                   |
| 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)    |

### Inline potentials

|                              |                                  |
|------------------------------|----------------------------------|
| Communications power $U_L$   | 7.5 V DC $\pm 5\%$               |
| Power supply at $U_L$        | max. 2 A DC (observe derating)   |
| I/O supply voltage $U_{ANA}$ | 24 V DC $-15\%$ / $+20\%$        |
| Power supply at $U_{ANA}$    | max. 0.5 A DC (observe derating) |

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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

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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Approval details

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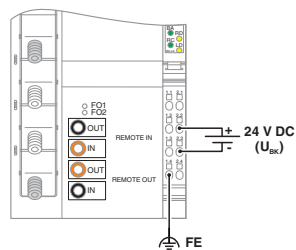
### Approvals



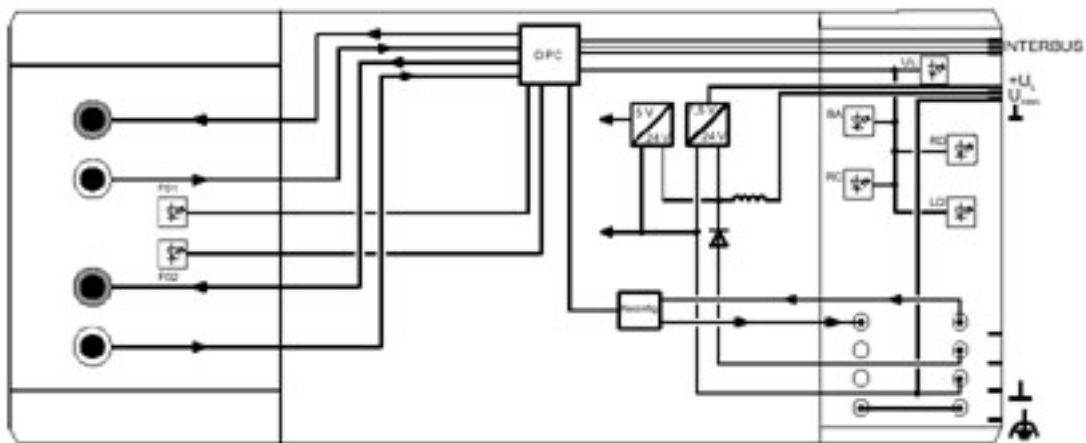
### Drawings

Dimensioned  
drawing

Connection diagram



Block diagram



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Catalog photo



Figure may contain other products.

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