# Bus coupler - IBS ST 24 BK RB-T - 2753504

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INTERBUS-ST bus terminal module, 24 V DC, 9-pos., D-SUB with additional remote bus stub line, 9-pos. D-SUB, IP20 protection, consisting of: Terminal part with screw connection and module electronics

## Product Description

INTERBUS ST bus terminal modules with additional interfaces (Bus)
In addition to configuring a modular input/output station with ST modules, the bus terminal modules with additional INTERBUS interfaces provide the option of connecting further INTERBUS network devices.
The IBS ST 24 BK LB-T module is equipped with an additional local bus interface with a 15-pos. D-SUB connector. The flat pack design input/output modules from PHOENIX CONTACT, for example, and frequency inverters with local bus interfaces can be connected to this interface.
An additional remote bus connection is provided by the IBS ST 24 RB-T. All devices with an INTERBUS remote bus interface can be connected in this remote bus branch.
The input/output bus terminal modules with additional fiber optic interfaces are available for integrating INTERBUS compatible devices into an INTERBUS fiber optic network.
All INTERBUS bus terminal modules make it possible to individually ebnable/disable the additional bus interfaces. To some extent, they perform the role of two bus terminal modules in the INTERBUS system and are also treated as such in the address lists and configuring software (CMD).
Note: When configuring buses branching off from the bus terminal modules, please observe the topology supported by INTERBUS controller boards.

## Product Features

- Additional I/Os onboard
- Copper or fiber optic connection
- Additional remote/local bus branches

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 017918 099589 |
| Weight per Piece (excluding packing) | 511.6 g |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

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## Technical data

### Note

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

### Dimensions

| | |
|---|---|
| Width | 81 mm |
| Height | 117 mm |
| Depth | 116 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Permissible humidity (operation) | 30 % ... 75 % (non-condensing) |
| Permissible humidity (storage/transport) | 30 % ... 95 % (non-condensing) |
| Air pressure (operation) | 86 kPa ... 108 kPa (up to 1500 m above mean sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above mean sea level) |
| Degree of protection | IP20 |

### Interfaces

| | |
|---|---|
| Fieldbus system | INTERBUS |
| Designation | INTERBUS |
| Connection method | 9-pos. D-SUB plug/socket |
| Designation connection point | Incoming/Outgoing Remote Bus |
| Number of positions | 9 |
| Fieldbus system | Lokalbus |
| Designation | ST local bus |
| Transmission speed | 500 kBit/s |
| Fieldbus system | INTERBUS |
| Designation | INTERBUS |
| Connection method | 9-pos. D-SUB socket |
| Number of positions | 9 |

### Digital inputs

| | |
|---|---|
| Connection method | Screw connection |

### Power supply for module electronics

| | |
|---|---|
| Supply voltage | 24 V DC |
| Supply voltage range | 20 V DC ... 30 V DC (including ripple) |
| Ripple | 3.6 $V_{pp}$ within the allowable voltage range |
| Current consumption | typ. 150 mA (without ST module expansions) |

# Bus coupler - IBS ST 24 BK RB-T - 2753504

## Technical data

### General

| | |
|---|---|
| Mounting type | DIN rail |
| Net weight | 470 g |

### Standards and Regulations

| | |
|---|---|
| Test section | Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 min. |
| | Power supply voltage / ST local bus 500 V AC 50 Hz 1 min. |
| | Incoming remote bus/ST interface 500 V AC 50 Hz 1 min. |
| | Incoming remote bus/Remote bus branch 500 V AC 50 Hz 1 min. |
| Connection in acc. with standard | CUL |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |

## 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 |
| eCl@ss 9.0 | 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

# Bus coupler - IBS ST 24 BK RB-T - 2753504

## Approvals

Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / EAC / cULus Recognized

Ex Approvals

Approvals submitted

## Approval details

UL Recognized

| | |
|---|---|
| mm²/AWG/kcmil | 30-12 |

cUL Recognized

| | |
|---|---|
| mm²/AWG/kcmil | 30-12 |

INTERBUS CLUB

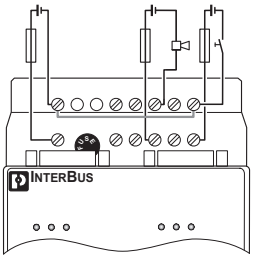
EAC

cULus Recognized

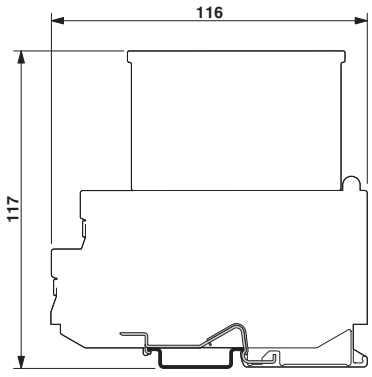
## Drawings

# Bus coupler - IBS ST 24 BK RB-T - 2753504

Connection diagram




Dimensional drawing

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