

IBS ST 24 BKM-T - Bus coupler



2750154

<https://www.phoenixcontact.com/us/products/2750154>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



INTERBUS-ST bus terminal module, 24 V DC, with 8-pos. MINI-COMBICON plug, IP20 protection, consisting of: Terminal part with screw connection and module electronics

Product description

INTERBUS ST standard bus terminal modules

The INTERBUS bus terminal module connects the input/output modules of an ST station with the INTERBUS network.

Depending on the transmission medium used, the bus terminal modules are equipped with different bus connections. For copper conductors, D-SUB and MINI-COMBICON connectors are available. The fiber optic versions are equipped with F-SMA connectors.

The bus terminal modules are available in two different performance classes. A maximum of 4 or 8 input/output modules can be operated on one bus terminal module.

The bus terminal module takes on the following functions within a modular INTERBUS-ST station:

- Refreshing the INTERBUS remote bus signals
- Electrical isolation of the remote bus segments
- Decoupling of the outgoing remote bus or of the connected input/ output modules from the INTERBUS network with a software command
- Supply of the connected input/output modules with an electrically isolated voltage supply from an integrated power supply unit

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2750154 |
| Packing unit | 1 pc |
| Sales key | DR03 |
| Product key | DRI311 |
| Catalog page | Page 165 (C-6-2019) |
| GTIN | 4017918108298 |
| Weight per piece (including packing) | 283 g |
| Weight per piece (excluding packing) | 200 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

IBS ST 24 BKM-T - Bus coupler

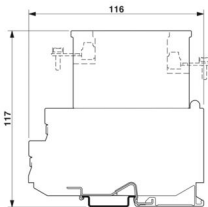
2750154

<https://www.phoenixcontact.com/us/products/2750154>



Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 44 mm |
| Height | 117 mm |
| Depth | 116 mm |

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

Interfaces

ST local bus

| | |
|--------------------|------------------------|
| Connection method | ST local bus connector |
| Transmission speed | 500 kbps |

INTERBUS

| | |
|------------------------------|--------------------------------|
| Connection method | 8-pos. MINI COMBICON connector |
| Designation connection point | Incoming/Outgoing Remote Bus |
| Number of positions | 8 |

Fieldbus: Local bus gateway

| | |
|----------------------------------|--------|
| Max. number of local bus devices | max. 4 |
|----------------------------------|--------|

Input data

Digital:

| | |
|-----------------------|------------------|
| Connection technology | Screw connection |
|-----------------------|------------------|

Product properties

| | |
|-------------------|-------------------------|
| Product type | I/O component |
| Product family | Smart Terminal ST |
| Type | modular |
| | INTERBUS Smart Terminal |
| Mounting position | Horizontal DIN rail |

Electrical properties

Supply: Module electronics

IBS ST 24 BKM-T - Bus coupler



2750154

<https://www.phoenixcontact.com/us/products/2750154>

| | |
|----------------------|---|
| Supply voltage | 24 V DC |
| Supply voltage range | 20 V DC ... 30 V DC (including ripple) |
| Current consumption | typ. 150 mA (without ST module expansions) typ. 350 mA (For maximum number of I/O modules on the ST local bus) |
| Ripple | 3.6 V _{pp} within the allowable voltage range |

Electrical isolation/isolation of the voltage ranges

| | |
|---|-------------------------|
| Test voltage: Incoming remote bus / Outgoing remote bus | 500 V AC, 50 Hz, 1 min. |
| Test voltage: Incoming remote bus/ST interface | 500 V AC, 50 Hz, 1 min. |

Connection data

Connection technology

| | |
|-----------------|----------------|
| Connection name | Terminal block |
|-----------------|----------------|

Conductor connection

| | |
|----------------------------------|---|
| Connection method | MINI COMBICON |
| Conductor cross section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Stripping length | 8 mm |

Terminal block

| | |
|-----------------------------------|---|
| Connection method | MINI COMBICON |
| Conductor cross section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|-------------------|---------------------|
| Mounting type | DIN rail mounting |
| Mounting position | Horizontal DIN rail |

IBS ST 24 BKM-T - Bus coupler

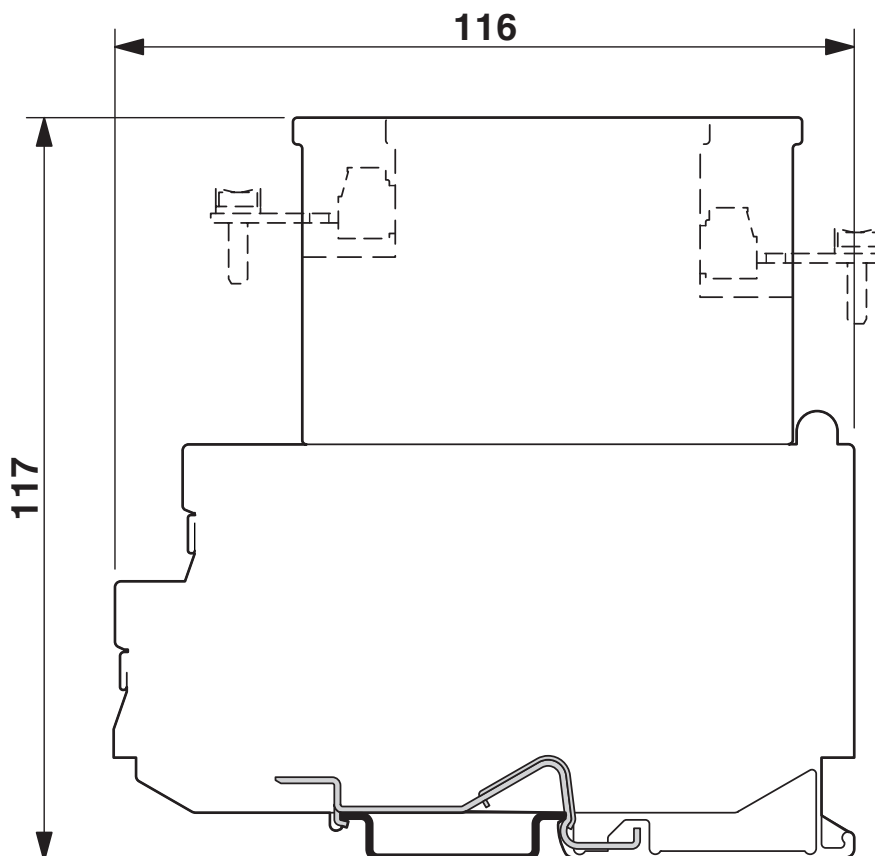
2750154

<https://www.phoenixcontact.com/us/products/2750154>

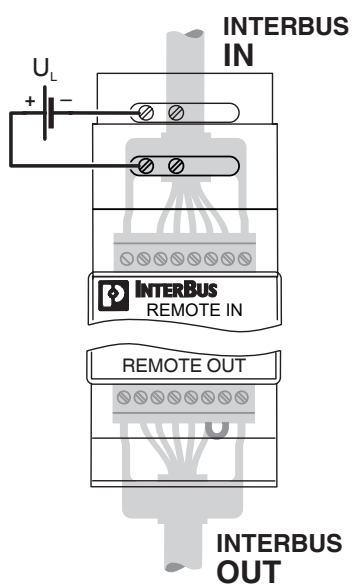


Drawings

Dimensional drawing



Connection diagram



IBS ST 24 BKM-T - Bus coupler



2750154

<https://www.phoenixcontact.com/us/products/2750154>

Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2750154>



EAC

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

INTERBUS CLUB

Approval ID: 300/07.07.00

IBS ST 24 BKM-T - Bus coupler



2750154

<https://www.phoenixcontact.com/us/products/2750154>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27242608 |
|-------------|----------|

ETIM

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

UNSPSC

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

Environmental product compliance

| | |
|---|---|
| EU RoHS | |
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |