

IBS ST ZF 24 BK-T - Bus coupler

2750743

<https://www.phoenixcontact.com/us/products/2750743>

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INTERBUS-ST bus terminal module, 24 V DC, 9-pos., D-SUB plug, IP20 protection, consisting of: Terminal part with spring-cage connection and module electronics

The figure shows version IBS ST
24 BK-LK

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

- Up to 8 I/O modules can be connected
- Copper or fiber optic connection
- Spring-cage connection with direct plug-in technology

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2750743 |
| Packing unit | 1 pc |
| Sales key | DR03 |
| Product key | DRI311 |
| GTIN | 4017918108403 |
| Weight per piece (including packing) | 512.4 g |
| Weight per piece (excluding packing) | 470 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

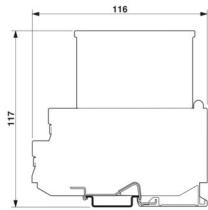
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Technical data

Dimensions

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

Interfaces

INTERBUS

| | |
|------------------------------|------------------------------|
| Connection method | 9-pos. D-SUB plug/socket |
| Designation connection point | Incoming/Outgoing Remote Bus |
| Number of positions | 9 |

ST local bus

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

Fieldbus: Local bus gateway

| | |
|----------------------------------|--------|
| Max. number of local bus devices | max. 8 |
|----------------------------------|--------|

Input data

Digital:

| | |
|-----------------------|------------------------|
| Connection technology | Spring-cage 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

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 15.6 W |
|---|--------|

Supply: Module electronics

| | |
|----------------------|--|
| Supply voltage | 24 V DC |
| Supply voltage range | 18.5 V DC ... 30.5 V DC (including ripple) |

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| | |
|---------------------|---|
| Current consumption | typ. 150 mA (without ST module expansions) |
| | typ. 650 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: Supply voltage/Ground conductor | 500 V AC, 50 Hz, 1 min |
| Test voltage: Incoming remote bus/ST interface | 500 V AC, 50 Hz, 1 min |

Connection data

| | |
|-----------------------------------|---|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 24 ... 16 |
| 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 % (On average, non-condensing) |
| Permissible humidity (storage/transport) | 30 % ... 95 % (On average, 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 |

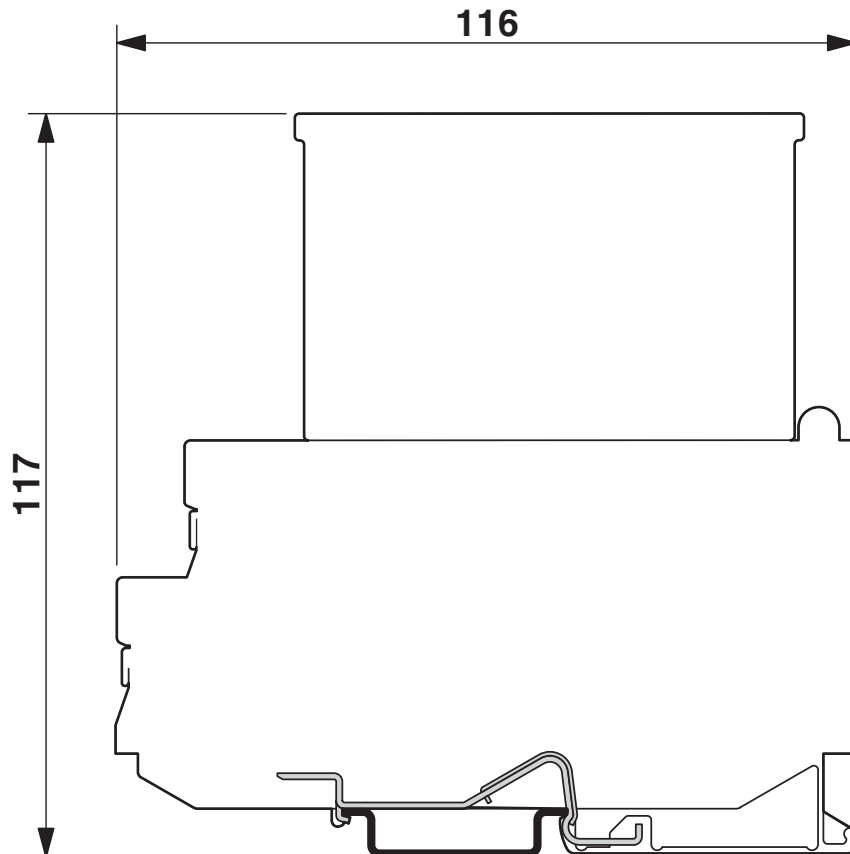
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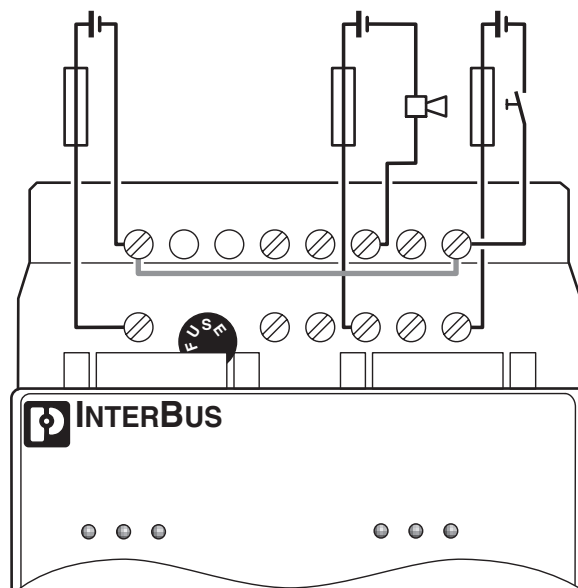
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Drawings

Dimensional drawing



Connection diagram



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Approvals

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INTERBUS CLUB

Approval ID: 267/03.07.00

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242608 |
| ECLASS-15.0 | 27242608 |

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|----------------------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a), 6(a)-I, 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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