

# IBS ST 24 BK-LK - Bus coupler

2754435

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INTERBUS-ST bus terminal module, 24 V DC, fiber optic F-SMA connector, 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
- Up to 8 I/O modules can be connected

## Commercial data

Item number	2754435
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI311
GTIN	4017918063160
Weight per piece (including packing)	513.9 g
Weight per piece (excluding packing)	452 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Product properties

Type	modular
Mounting position	Horizontal DIN rail

### Electrical properties

#### Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Current consumption	typ. 80 mA (without ST module expansions) typ. 350 mA (For maximum number of I/O modules on the ST local bus)
Ripple	3.6 V <sub>pp</sub> 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

#### Terminal block

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

### Interfaces

#### INTERBUS

Connection method	F-SMA connector
Designation connection point	Incoming/Outgoing Remote Bus

#### ST local bus

Connection method	ST local bus connector
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#### Fieldbus: Local bus gateway

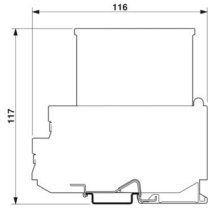
Max. number of local bus devices	max. 8
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### Dimensions

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Dimensional drawing	
Width	81 mm
Height	117 mm
Depth	116 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)
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## Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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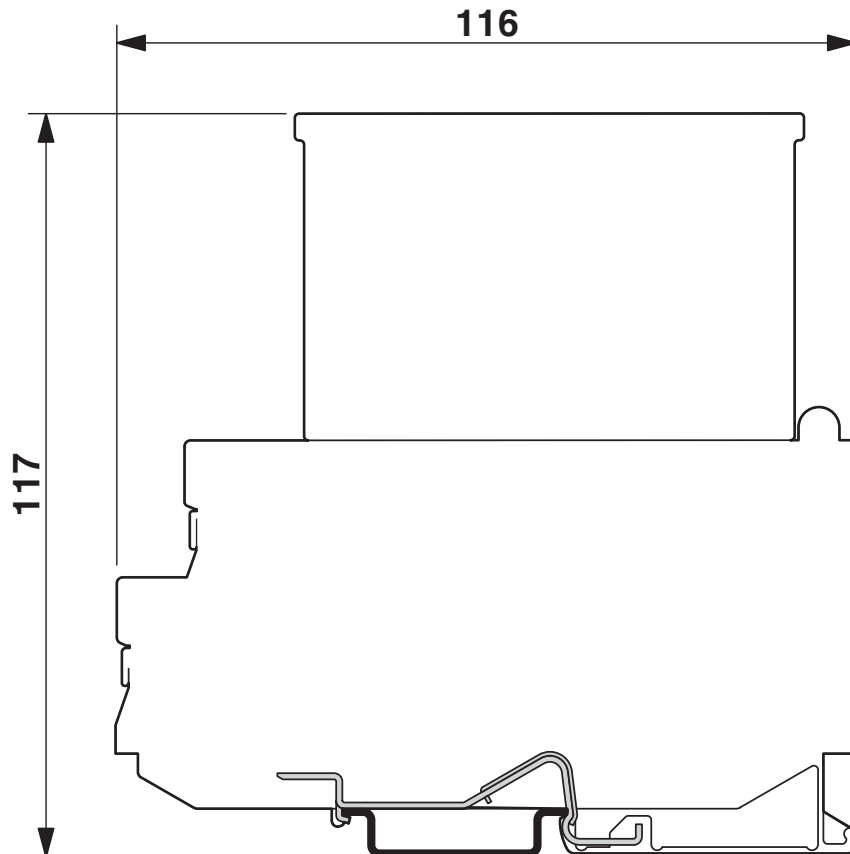
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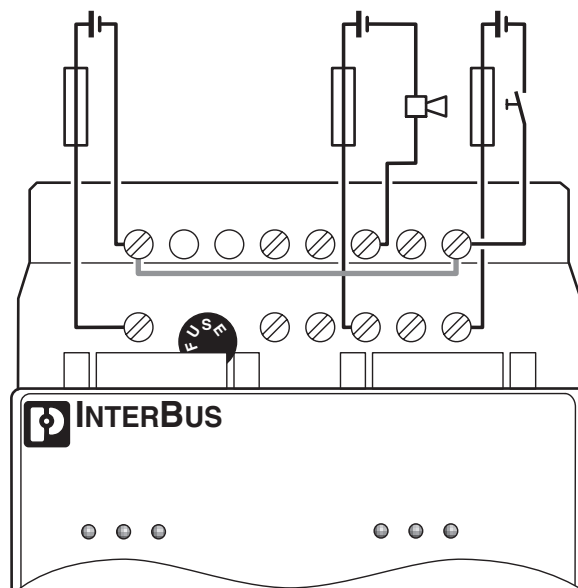


## Drawings

Dimensional drawing



Connection diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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