

# IBS ST 24 BK RB-T - Bus coupler



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 enable/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.

## Your advantages

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

## Commercial data

Item number	2753504
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI311
Catalog page	Page 165 (C-6-2019)
GTIN	4017918099589
Weight per piece (including packing)	519.2 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

### Material specifications

Color	green
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### Interfaces

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

ST local bus	
Transmission speed	500 kbps

INTERBUS	
Connection method	9-pos. D-SUB socket
Number of positions	9

Fieldbus: Local bus gateway	
Max. number of local bus devices	max. 8

### 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

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## Electrical properties

### Supply: Module electronics

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. 650 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: Power supply voltage / ST local bus	500 V AC, 50 Hz, 1 min
Test voltage: Incoming remote bus/ST interface	500 V AC, 50 Hz, 1 min
Test voltage: Incoming remote bus/Remote bus branch	500 V AC, 50 Hz, 1 min

## Connection data

### Connection technology

Connection name	Terminal block
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### Conductor connection

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
Stripping length	8 mm

### 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
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

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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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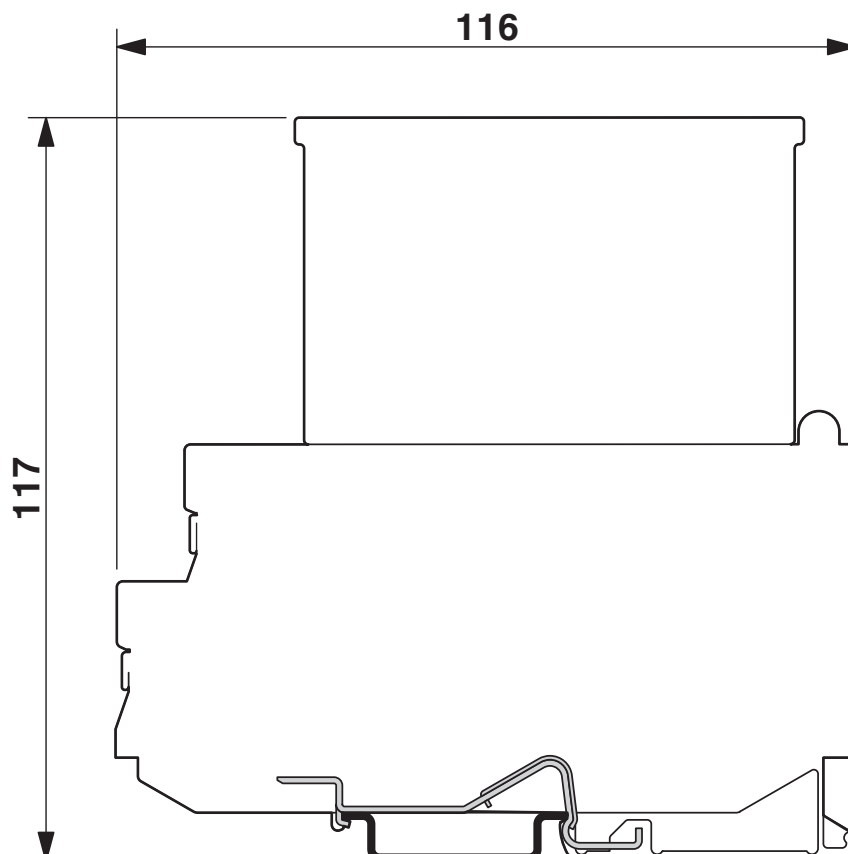
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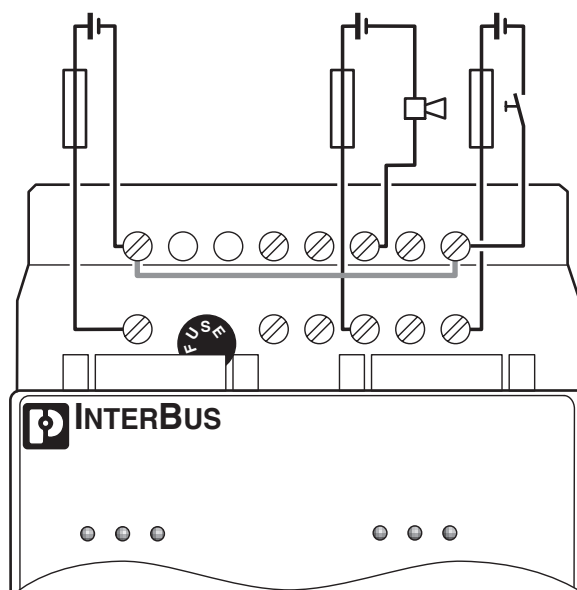


## Drawings

Dimensional drawing



Connection diagram




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## Approvals

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**EAC**

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

**INTERBUS CLUB**

Approval ID: 293/06.07.00

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## Classifications

### ECLASS

ECLASS-11.0	27242608
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### ETIM

ETIM 8.0	EC001604
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### 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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