

# IBS ST ZF 24 BK-T - Bus coupler

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

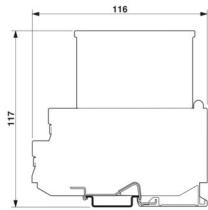
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## Technical data

### 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
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### Input data

#### Digital:

Connection technology	Spring-cage connection
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### 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
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#### 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 <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

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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)
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## Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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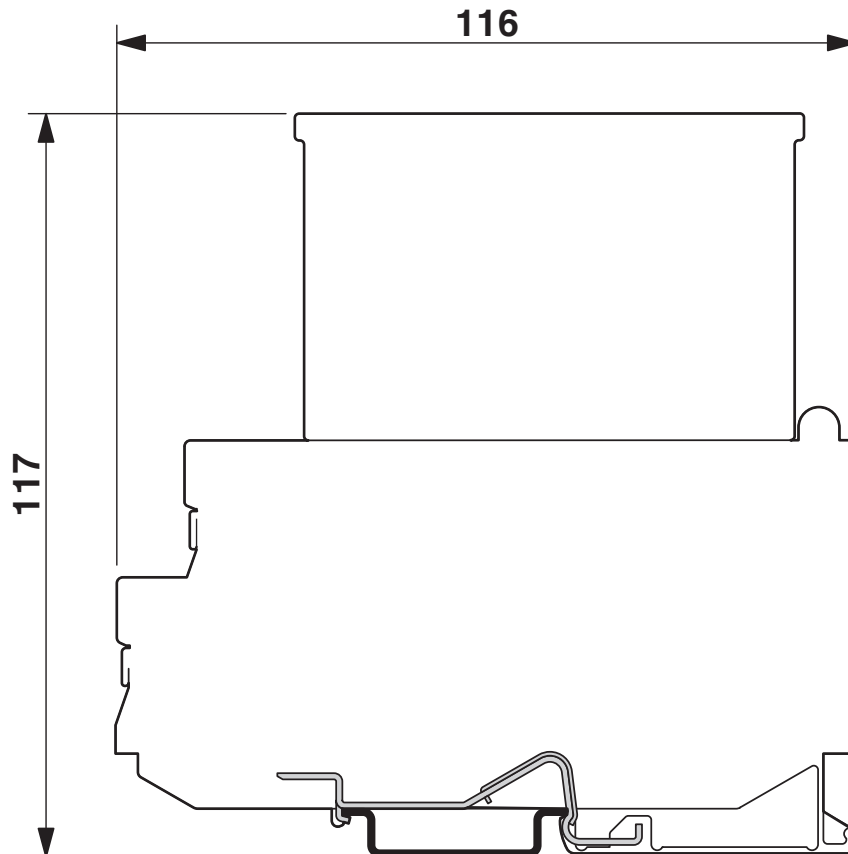
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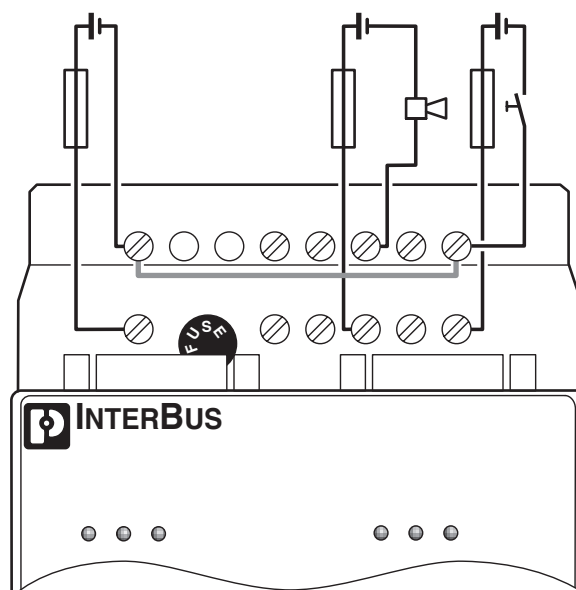


## Drawings

Dimensional drawing



Connection diagram



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## Approvals

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### **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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