

# Bus coupler - IBS ST 24 BK-T - 2754341

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



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918063108

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	81 mm
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## Technical data

### Dimensions

Height	116 mm
Depth	116 mm

### Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	30 % ... 75 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (On average, non-condensing)
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)
Degree of protection	IP20

### Interfaces

Designation	INTERBUS
Connection method	9-pos. D-SUB plug/socket
Designation connection point	Incoming/Outgoing Remote Bus
Number of positions	9
Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kbps

### Digital inputs

Connection technology	Screw connection
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### Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.5 V DC (including ripple)
Ripple	3.6 V <sub>pp</sub> within the allowable voltage range
Current consumption	typ. 150 mA (without ST module expansions)
	typ. 650 mA (For maximum number of I/O modules on the ST local bus)

### General

Mounting type	DIN rail
Color	green
Net weight	470 g
Mounting position	Horizontal DIN rail

### Electrical isolation

Test section	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 min.
	Supply voltage/Ground conductor 500 V AC 50 Hz 1 min.
	Incoming remote bus/ST interface 500 V AC 50 Hz 1 min.

### Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

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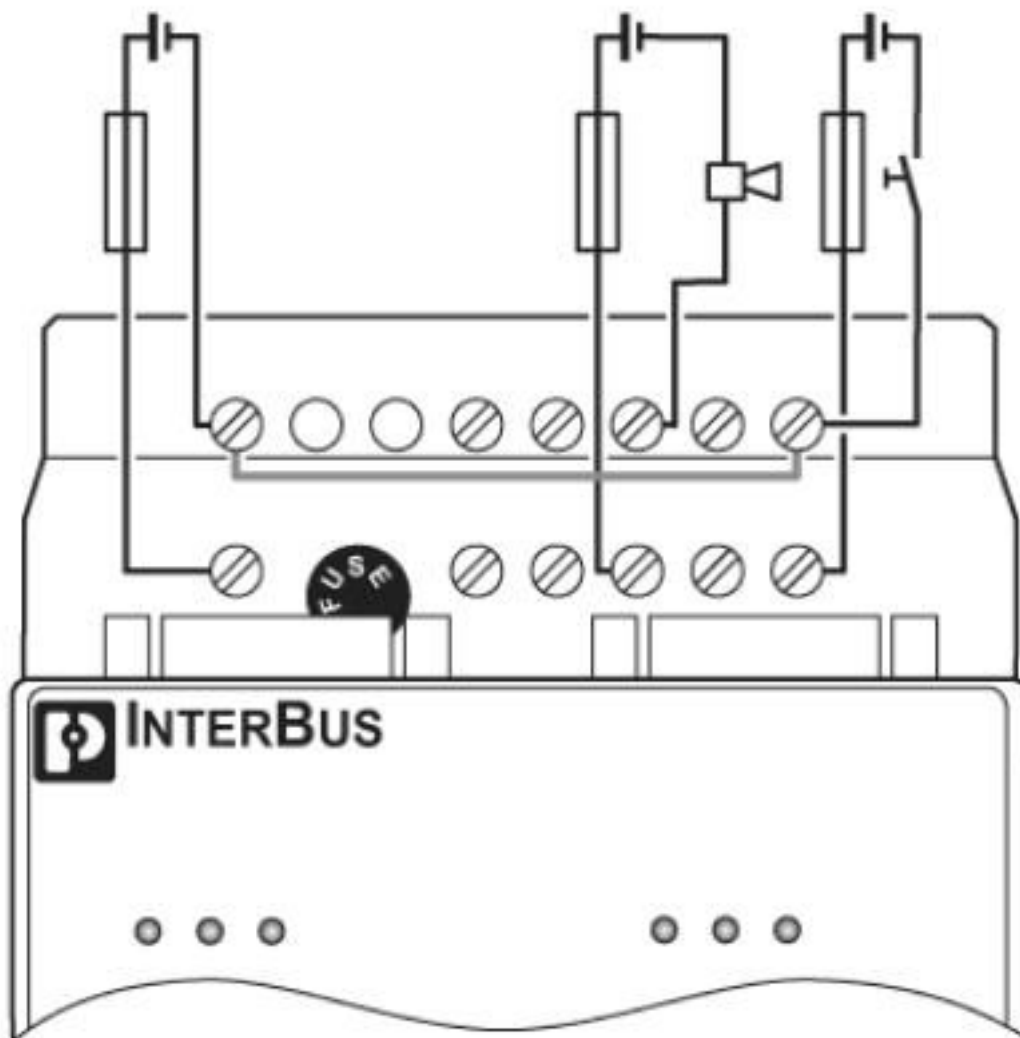
## Technical data

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

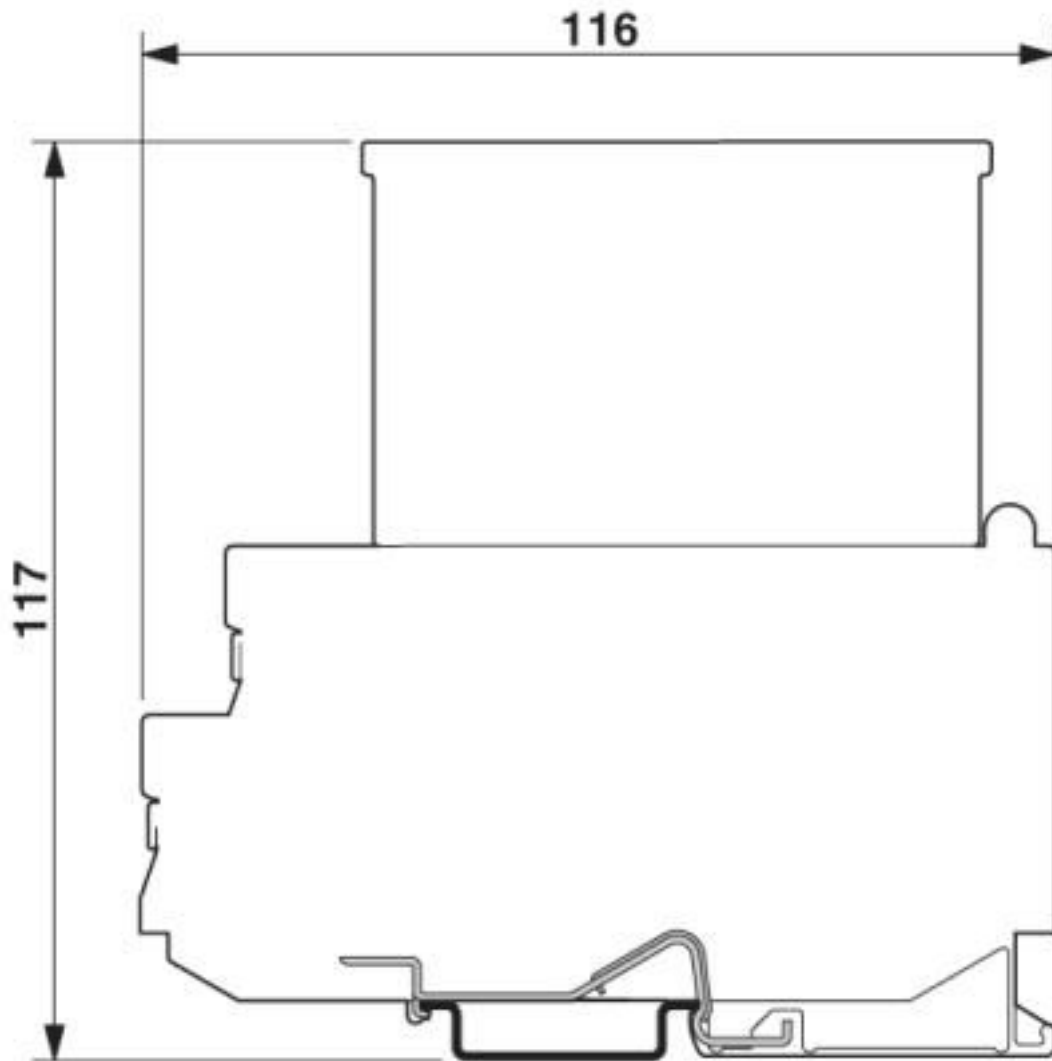
## Drawings

Connection diagram



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Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 4.0	27250200
eCl@ss 4.1	27250200
eCl@ss 5.0	27250200
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

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## Classifications

### ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals


### Approvals


#### Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / EAC / cULus Recognized

#### Ex Approvals

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-12	

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-12	

## Bus coupler - IBS ST 24 BK-T - 2754341

### Approvals

INTERBUS CLUB	286/04.07.00
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EAC		EAC-Zulassung
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cULus Recognized	
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### Accessories

#### Accessories

#### Bridge

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

Insertion bridge - EB 84 IB ST BU - 2836269



Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.

Insertion bridge - EB 84 IB ST RD - 2836272



Insertion bridges, divisible, isolated comb spine, color red, 84-pos.

#### Fuse

## Bus coupler - IBS ST 24 BK-T - 2754341

### Accessories

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

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### I/O component

Replacement electronics module - IBS STME 24 BK-T - 2754367



Replacement module electronics for IB ST (ZF) 24 BK-T

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Replacement clamping part - IBS STTB 24 BK-T - 2753180

Replacement clamping part for IBS ST 24 BK-T(LK)

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