

# 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 illustration 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

## Product Features

- Up to 8 I/O modules can be connected
- Copper or fiber optic connection



## Key commercial data

package_quantity	1
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
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 % (no condensation)

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## Technical data

### Ambient conditions

<b>Permissible humidity (storage/transport)</b>	30 % ... 95 % (On average, no condensation)
<b>Air pressure (operation)</b>	86 kPa ... 108 kPa (up to 1500 m above mean sea level)
<b>Air pressure (storage/transport)</b>	66 kPa ... 108 kPa (up to 3500 m above mean sea level)
<b>Degree of protection</b>	IP20

### Interfaces

<b>Fieldbus system</b>	INTERBUS
<b>Name</b>	INTERBUS remote bus
<b>Connection method</b>	9-pos. D-SUB plug/socket
<b>Designation connection point</b>	Incoming/Outgoing Remote Bus
<b>Number of positions</b>	9
<b>Fieldbus system</b>	Lokalbus
<b>Name</b>	ST local bus
<b>Connection method</b>	ST local bus connector
<b>Transmission speed</b>	500 kBit/s

### Digital inputs

<b>Connection method</b>	Screw connection
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### Power supply for module electronics

<b>Supply voltage</b>	24 V DC
<b>Supply voltage range</b>	18.5 V DC ... 30.5 V DC (including ripple)
<b>Ripple</b>	3.6 V <sub>pp</sub> within the allowable voltage range
<b>Current consumption</b>	typ. 150 mA (without ST module expansions)

### General

<b>Weight</b>	470 g
<b>Mounting type</b>	DIN rail
<b>Protection class</b>	III, IEC 61140, EN 61140, VDE 0140-1
<b>Test section</b>	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 min
<b>Test section</b>	Supply voltage/Ground conductor 500 V AC 50 Hz 1 min
<b>Test section</b>	Incoming remote bus/ST interface 500 V AC 50 Hz 1 min

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27250203
<b>eCl@ss 4.1</b>	27250203
<b>eCl@ss 5.0</b>	27250203
<b>eCl@ss 5.1</b>	27242608
<b>eCl@ss 6.0</b>	27242608
<b>eCl@ss 7.0</b>	27242608
<b>eCl@ss 8.0</b>	27242608

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## classifications

### ETIM

<b>ETIM 2.0</b>	EC001434
<b>ETIM 3.0</b>	EC001604
<b>ETIM 4.0</b>	EC001604
<b>ETIM 5.0</b>	EC001604


### UNSPSC


<b>UNSPSC 6.01</b>	43172015
<b>UNSPSC 7.0901</b>	43201404
<b>UNSPSC 11</b>	43172015
<b>UNSPSC 12.01</b>	43201404
<b>UNSPSC 13.2</b>	43201404


## approvals

UL Recognized / cUL Recognized / GOST / INTERBUS CLUB / cULus Recognized /

### Approval details

<b>UL Recognized</b> 	
Nominal voltage UN	
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	30-12

<b>cUL Recognized</b> 	
Nominal voltage UN	
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	30-12

<b>GOST</b> 
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<b>INTERBUS CLUB</b>
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# Bus coupler - IBS ST 24 BK-T - 2754341

approvals

cULus Recognized  US

accessories

I/O component

IBS STME 24 BK-T - 2754367



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Fuse

IBS TR5 1AT - 2806600



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Bridge

IB ST LBC - 2836492



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EB 84 IB ST BU - 2836269



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

accessories

EB 84 IB ST RD - 2836272



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accessories

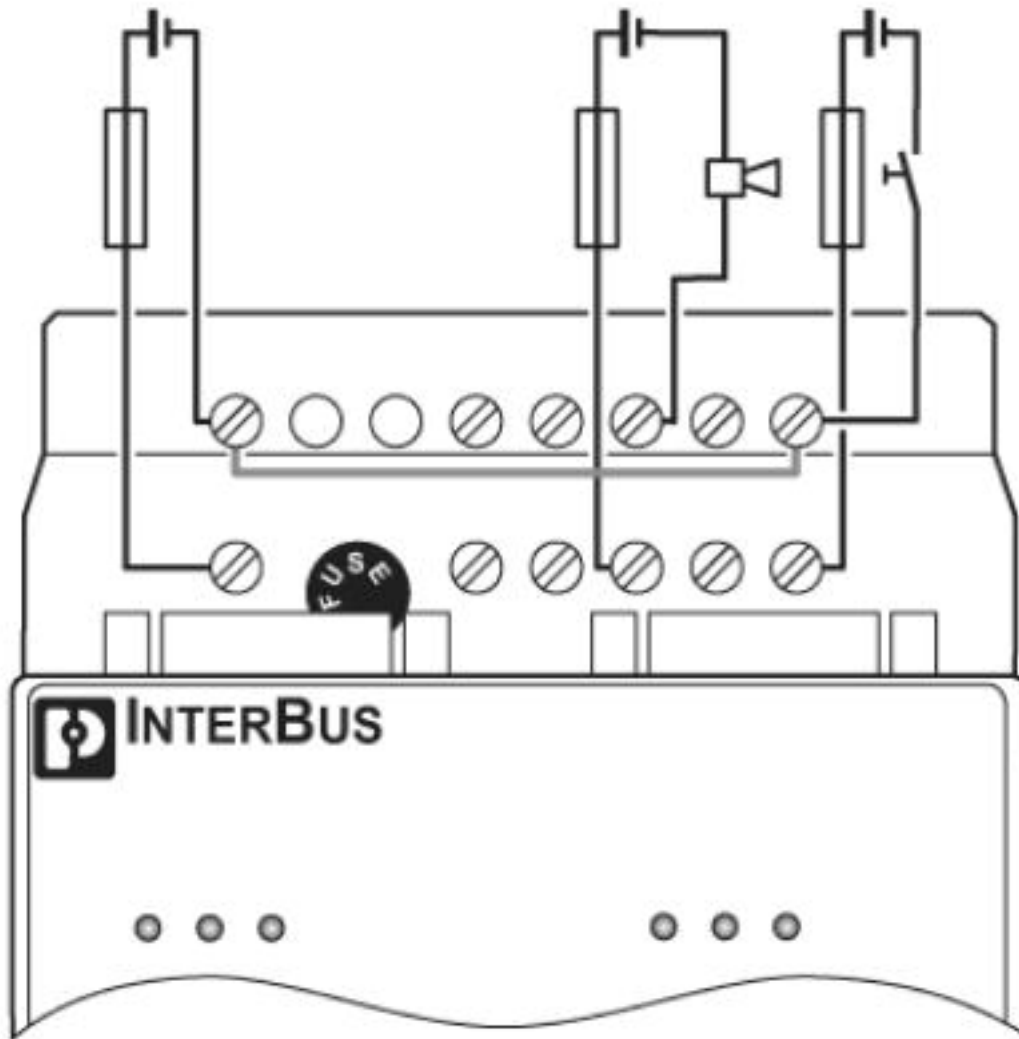
IBS STTB 24 BK-T - 2753180

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Drawings

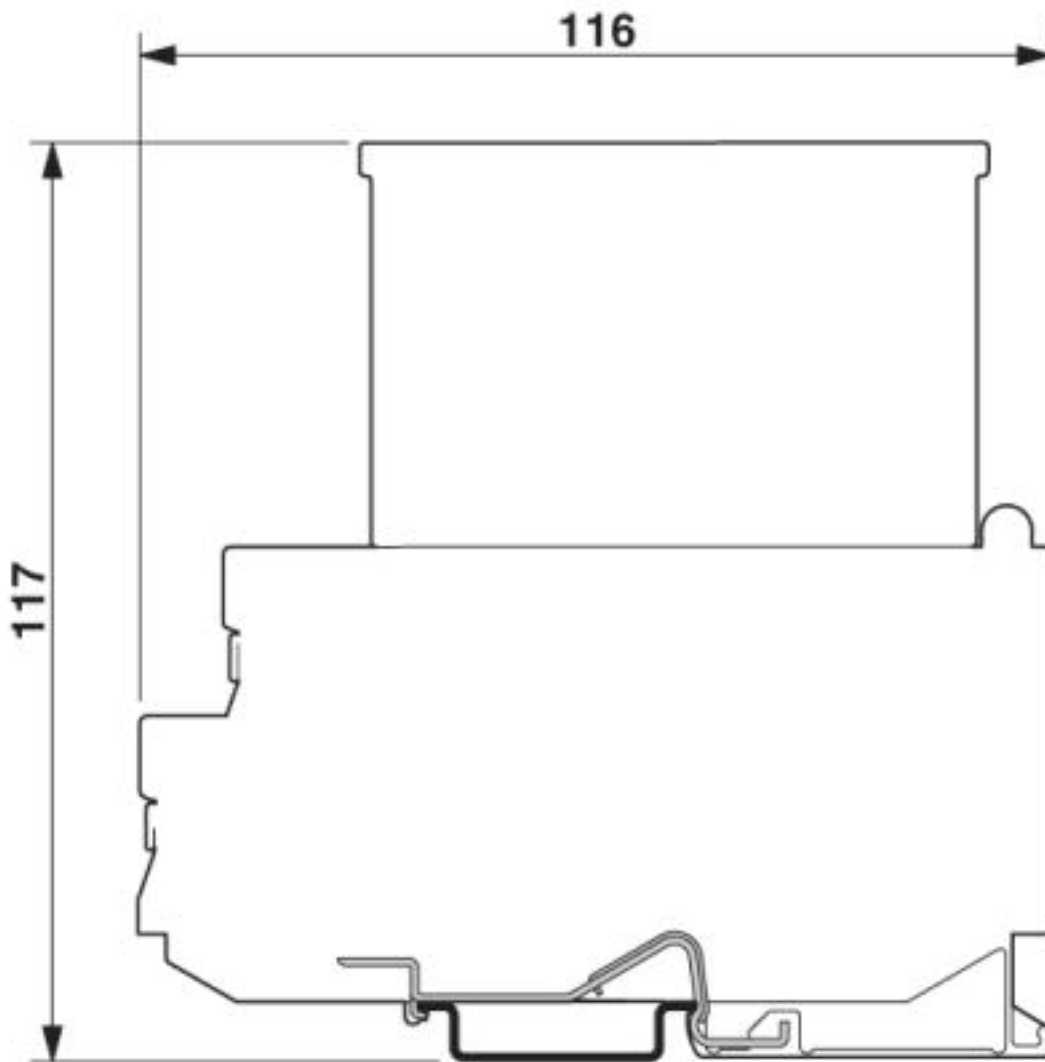
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Connection diagram



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

Dimensioned drawing



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