

# Bus coupler - IBS ST 24 BK DIO 8/8/3-T - 2752411

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INTERBUS-ST I/O bus terminal module, 8 digital inputs, 8 digital outputs, 500 mA, I/Os additionally available via FLK plug, IP20 protection, consisting of: Terminal part with screw connection and module electronics

The figure shows version IBS ST 24 BK DIO 8/8/3-LK

## Product Description

INTERBUS ST bus terminal modules with additional interfaces (I/O)

In addition to the actual bus terminal module functions, 8 digital inputs and 8 digital outputs are integrated into the INTERBUS input/output bus terminal modules. On top of this, the modules can be extended by up to four INTERBUS-ST input/output modules. All the bus terminal module functions, such as switching of the input/output modules from the INTERBUS network remain available without restrictions.

This bus terminal module is particularly suitable for use in applications for which very little space is available, or where only a few input/output points are required.

The IBS ST 24 BK DIO 8/8/3-T or -LK modules provide the option of assigning inputs and outputs either by screw terminal blocks in the termination block, or using an FLK system connector. This permits the ELR 319 electronic load relay or VARIOFACE input/output modules to be connected simply using 14-pos. FLK connectors.

The IBS ST 24 BK RB-T or IBS ST 24 BK RB-LK modules have an additional remote bus branch. This remote bus branch has the same restrictions regarding structure as any remote bus. All devices with remote bus interface can be linked in here.

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

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



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918105105

## Technical data

### Note

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## Technical data

### Note

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

Width	118 mm
Height	117 mm
Depth	116 mm

### Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 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

Input name	Digital inputs
Connection method	Screw-cage terminal blocks or FLK connectors
Connection technology	3-wire
Number of inputs	8
Typical response time	≥ 1 ms (typical)
Protective circuit	Overload protection Fuse in header
Nominal input current at U <sub>IN</sub>	typ. 5 mA (per channel)
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	13 V DC ... 30 V DC

### Digital outputs

Output name	Digital outputs
Connection method	Screw-cage terminal blocks or FLK connectors
Connection technology	3-wire
Number of outputs	8
Protective circuit	Short-circuit protection electronic

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### Technical data

#### Digital outputs

	Overload protection Fuse in header
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	4 A
Maximum output current per group	2 A

#### 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

#### General

Mounting type	DIN rail
Color	green
Net weight	690 g
Mounting position	Horizontal DIN rail

#### Electrical isolation

Test section	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 min.
	Incoming remote bus / I/O interface 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)

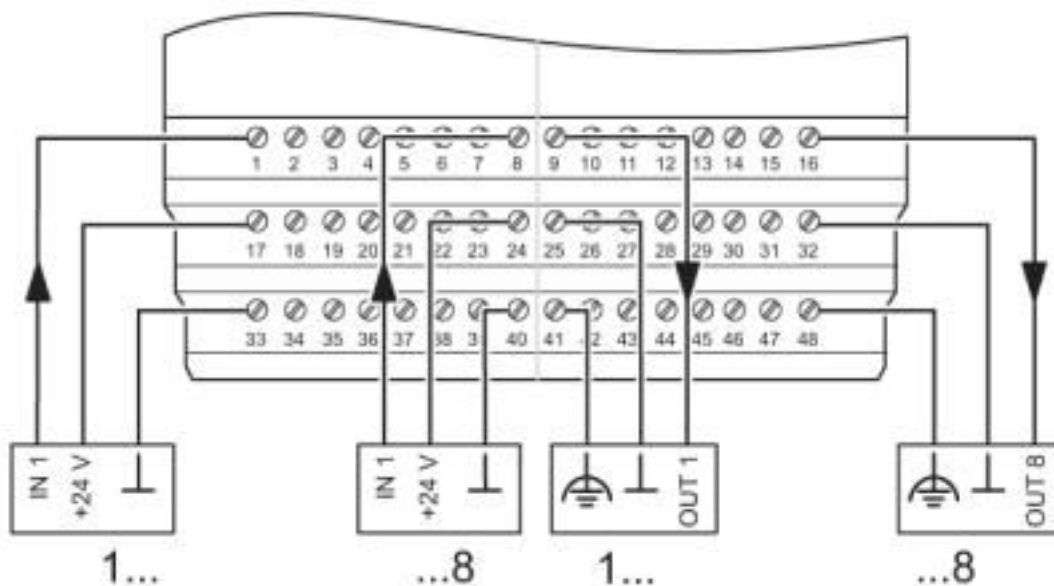
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

# Bus coupler - IBS ST 24 BK DIO 8/8/3-T - 2752411

Connection diagram



## Classifications

### eCl@ss

eCl@ss 10.0.1	27242604
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	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

### ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404

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## Classifications

### UNSPSC

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	

INTERBUS CLUB	304/07.07.00
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EAC		EAC-Zulassung
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cULus Recognized	
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## Bus coupler - IBS ST 24 BK DIO 8/8/3-T - 2752411

### Accessories

#### Accessories

#### Bridge

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

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Insertion bridge - EB 84 IB ST BU - 2836269



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

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Insertion bridge - EB 84 IB ST RD - 2836272



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

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#### Fuse

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

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Fuse - IBS TR5 3,15AF - 2719250



Replacement fuse, for INTERBUS-ST modules

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#### I/O component

## Bus coupler - IBS ST 24 BK DIO 8/8/3-T - 2752411

### Accessories

Replacement electronics module - IBS STME 24 BK DIO 8/8/3-T - 2752961



Replacement module electronics for IBS ST (ZF) 24 BK DIO 8/8/3-T

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