

## Bus coupler - IBS ST 24 BK DIO 8/8/3-LK - 2751218

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

### 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

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 126896
GTIN	4017918126896

### Technical data

#### Dimensions

Width	118 mm
Height	117 mm

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## Technical data

### Dimensions

Depth	116 mm
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### 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	FSMA plugs
Wavelength	typ. 650 nm
Designation connection point	Incoming/Outgoing Remote Bus
Transmission physics	Polymer fiber
Designation	ST local bus
Connection method	ST local bus connector

### 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)
Type of protection	Overload protection
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
Nominal input current at $U_{IN}$	typ. 5 mA (per channel)

### Digital outputs

Output name	Digital outputs
Connection method	Screw-cage terminal blocks or FLK connectors
Connection technology	3-wire
Number of outputs	8
Type of protection	Short-circuit protection
	Overload protection
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	4 A
Maximum output current per group	2 A
Nominal load, lamp	12 W

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### Technical data

#### Digital outputs

Nominal load, ohmic	12 W
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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. 170 mA (without ST module expansions)
	typ. 470 mA (For maximum number of I/O modules on the ST local bus)

#### General

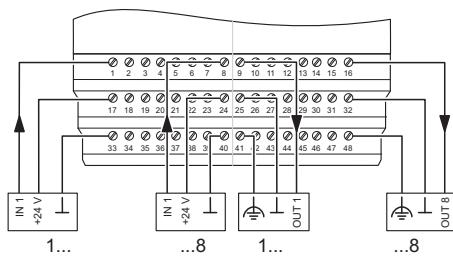
Mounting type	DIN rail
Net weight	729.1 g

#### Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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### Drawings

Connection diagram



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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