

# IB ST ZF 24 BK RB-T DIO8/8/3LK

## Discontinued item


Order No.: 2726049

The illustration shows version IBS ST 24 BK-RB-T DIO 8/8/3-LK



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INTERBUS-ST I/O bus terminal module, 9-pos. D-SUB, 8 digital inputs, 8 digital outputs, 500 mA, additionally with fiber-optic remote bus branch, IP20 protection, consisting of: Terminal part with spring-cage connection and module electronics

Commercial data	
GTIN (EAN)	
Note	Made-to-order
sales group	K400
Pack	1 pcs.
Customs tariff	85389091

### Product notes

WEEE/RoHS-compliant since:  
01/22/2008



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### 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 plug connector. This permits the ELR 319 electronic load relay or VARIOFACE input/output modules to be connected simply using 14-pos. FLK plug 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.

#### Technical data

##### Interface

Fieldbus system	INTERBUS
Name	INTERBUS remote bus
Connection method	FSMA plugs
Designation connection point	Incoming/Outgoing Remote Bus
Fieldbus system	Lokalbus
Name	ST local bus
Connection method	ST local bus connector
Fieldbus system	INTERBUS
Name	INTERBUS remote bus branch
Connection method	9-pos. D-SUB plug/socket
Number of positions	9

##### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	3-conductor
Number of inputs	8
Typical response time	3 ms (typical)
Protective circuit	Overload protection Fuse in header
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	Spring-cage connection
Number of outputs	8
Protective circuit	Short-circuit protection Electronic
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
Nominal load, ohmic	12 W

### 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 data

Width	118 mm
Height	117 mm
Depth	116 mm
Weight	710 g
Mounting type	DIN rail
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	75 % (on average, 85% infrequently, no condensation)
Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, no condensation)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 min
	Incoming remote bus/local bus 500 V AC 50 Hz 1 min
	Incoming remote bus/Remote bus branch 500 V AC 50 Hz 1 min
	Supply voltage logic / I/O 500 V AC 50 Hz 1 min

**Certificates / Approvals**



Certification

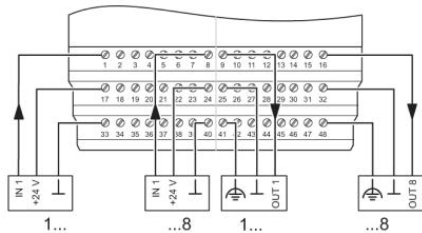
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**Accessories**

Item	Designation	Description
<b>Cable/conductor</b>		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
<b>Fuse</b>		
2806600	IBS TR5 1AT	Replacement fuse for INTERBUS-ST module
2719250	IBS TR5 3,15AF	Replacement fuse, for INTERBUS-ST modules
<b>Replacement clamping part</b>		
2750840	IBS STTB ZF 24 BK DIO 8/8/3-T	Replacement clamping part for IB ST ZF 24 BK DIO 8/8/3-T(LK) and IB ST ZF 24 BK RB-T(LK) DIO 8/8/3-LK
<b>Replacement module electronics</b>		
2725891	IBS STME 24 BK RB-T DIO8/8/3LK	Replacement module electronics for IBS ST (ZF) 24 BK RB-T DIO 8/8/3-LK

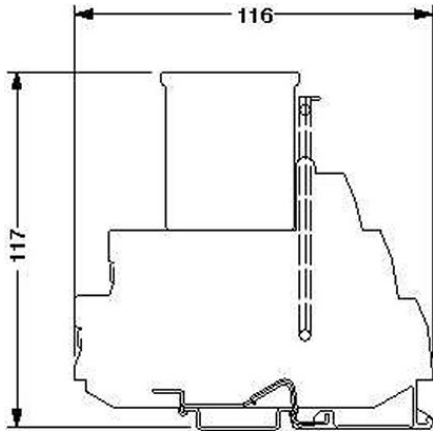
**Diagrams/Drawings**

Connection diagram



Dimensioned drawing

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