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

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

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

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 ebnable/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.

Product Features

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

Key commercial data

package_quantity	1
GTIN	4017918105105

Technical data

Note

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

Dimensions

Width	118 mm
Height	117 mm
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 mean sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Degree of protection	IP20

Interfaces

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

Digital inputs

Input name	Digital inputs
Connection method	Screw-cage terminal blocks or FLK connectors
Connection method	3-conductor
Number of inputs	8
Typical response time	≥ 1 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	Screw-cage terminal blocks or FLK connectors
Connection method	3-conductor
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

Power supply for module electronics

Supply voltage	24 V DC

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Power supply for module electronics

Supply voltage range	18.5 V DC ... 30.5 V DC (including ripple)
Ripple	3.6 V_{pp} within the allowable voltage range
Current consumption	typ. 150 mA

General

Weight	690 g
Mounting type	DIN rail
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
Test section	Incoming remote bus / I/O interface 500 V AC 50 Hz 1 min
Test section	Incoming remote bus/ST interface 500 V AC 50 Hz 1 min

classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

approvals

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

Approval details

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approvals

UL Recognized

Nominal voltage UN	
Nominal current IN	
mm²/AWG/kcmil	30-12

cUL Recognized

Nominal voltage UN	
Nominal current IN	
mm²/AWG/kcmil	30-12

GOST

INTERBUS CLUB

cULus Recognized

accessories

I/O component

IBS STME 24 BK DIO 8/8/3-T - 2752961

Fuse

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accessories

IBS TR5 1AT - 2806600

IBS TR5 3,15AF - 2719250

Bridge

IB ST LBC - 2836492

EB 84 IB ST BU - 2836269

EB 84 IB ST RD - 2836272

Drawings

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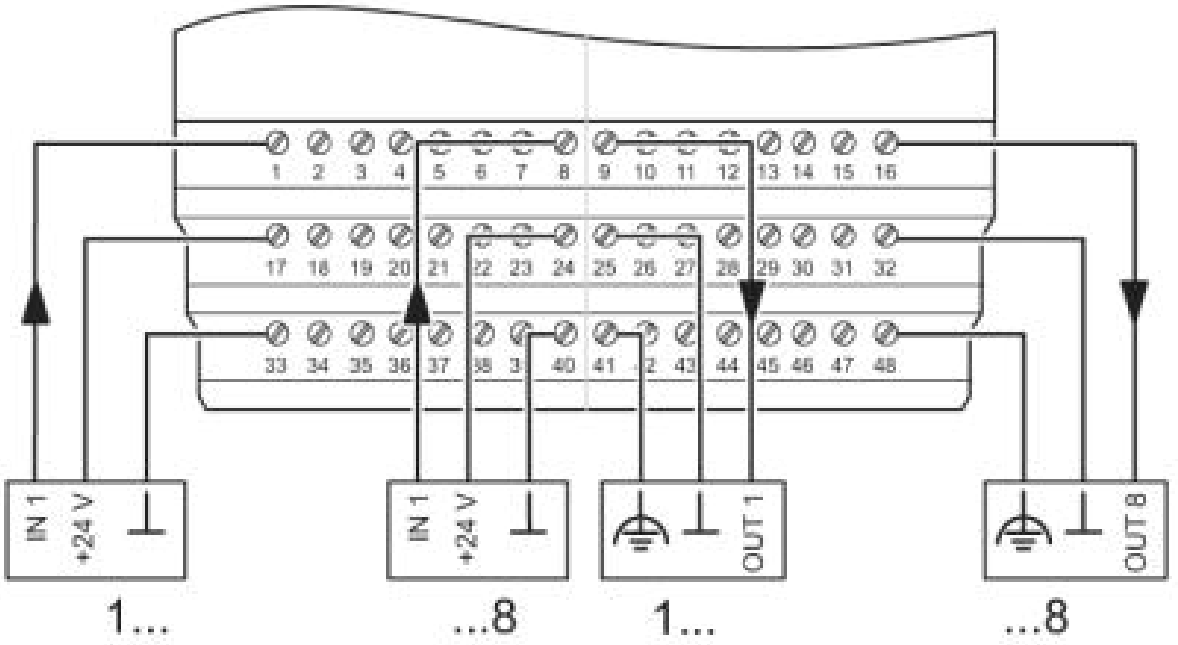
Connection diagram



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Dimensioned drawing