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I/O module - IB ST 24 DO16R/S - 2721112

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INTERBUS-ST digital output module, 16 relay N/O contact outputs, 3-wire connection method, IP20 protection, consisting of: Terminal part with screw connection and module electronics

Product Description

INTERBUS ST digital output modules for AC voltages
The digital INTERBUS output modules are designed for the connection of digital actuators, such as electromechanical valves, contactors or lamps.
In addition to the standard IB ST 24 BDO modules, the range is rounded off by modules with extended functionality.
The scope of functions provided by the standard models covers the majority of applications. On top of this, several modules provide additional electronic functions, such as:
- Output channels in up to four electrically isolated groups
- Separate electronic short-circuit protection for each output channel
- Higher output current
which are needed in individual applications.
All the typical advantages of INTERBUS-ST handling, such as multi-wire connection methods and plug-in electronics are provided by both product lines.

Product Features

- 16 relay outputs
- Connection of actuators in 3-wire technology
- Floating relay contacts
- Diagnostic and status indicators

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 132323
Weight per Piece (excluding packing)	703.7 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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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

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	75 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	86 kPa ... 108 kPa (1500 m above sea level)
Degree of protection	IP20

Interfaces

Fieldbus system	Lokalbus
Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s

Digital outputs

Output name	Relay output
Connection method	Screw connection
	3-conductor
Number of outputs	16
Protective circuit	Short-circuit protection Electronic
Nominal output voltage	230 V AC
Maximum output current per channel	3 A
Nominal load, inductive	200 VA
Nominal load, lamp	75 W
Nominal load, ohmic	750 W

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Ripple	3.6 V_{pp} within the allowable voltage range
Current consumption	100 mA

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Power supply for module electronics

Communications power U_L	9 V DC
Current consumption	max. 100 mA

General

Mounting type	DIN rail
Net weight	685 g

Standards and Regulations

Test section	Main contact / N/O contact (per relay) 750 V AC 50 Hz 1 min.
	Contact / Contact (within a group) 1000 V AC 50 Hz 1 min.
	Group / Group 2000 V AC 50 Hz 1 min.
	Groups / 24 V 2000 V AC 50 Hz 1 min.
	Groups / 24 V 2000 V AC 50 Hz 1 min.
	24 V / PE 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015

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Classifications

UNSPSC

UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

cUL Recognized

EAC

cULus Recognized

Accessories

Accessories

Bridge

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Accessories

Jumper - IB ST LBC - 2836492

Spare local bus cable, for INTERBUS-ST modules

Insertion bridge - EB 84 IB ST BU - 2836269

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

Insertion bridge - EB 84 IB ST RD - 2836272

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

Fuse

Fuse - IBS TR5 0,4AT - 2753478

Replacement fuse, for INTERBUS-ST modules

Replacement electronics module - IB STME 24 DO16R/S - 2721138

Replacement module electronics for IB ST (ZF) 24 DO 16 R/S

I/O module - IB ST 24 DO16R/S - 2721112

Accessories

Spare parts

Jumper - IB ST LBC - 2836492

Spare local bus cable, for INTERBUS-ST modules

Fuse - IBS TR5 0,4AT - 2753478
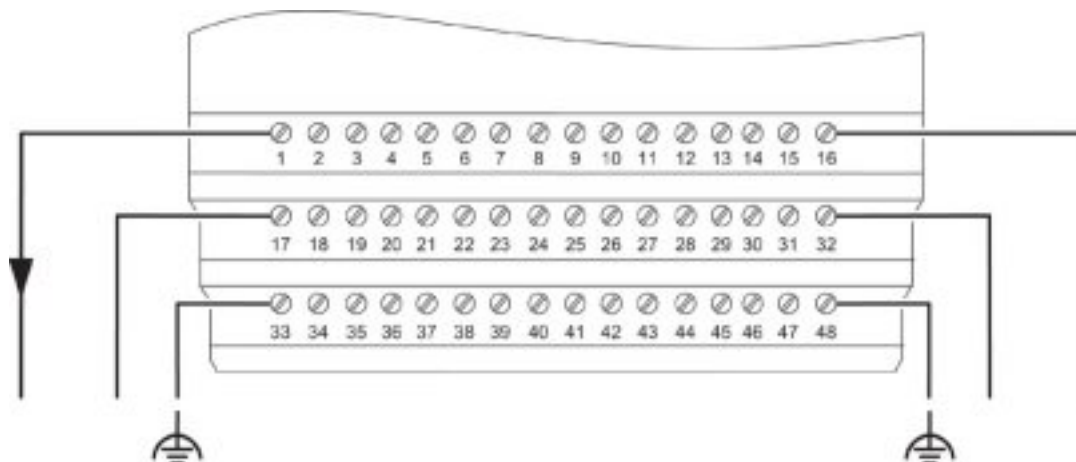
Replacement fuse, for INTERBUS-ST modules

Replacement electronics module - IB STME 24 DO16R/S - 2721138

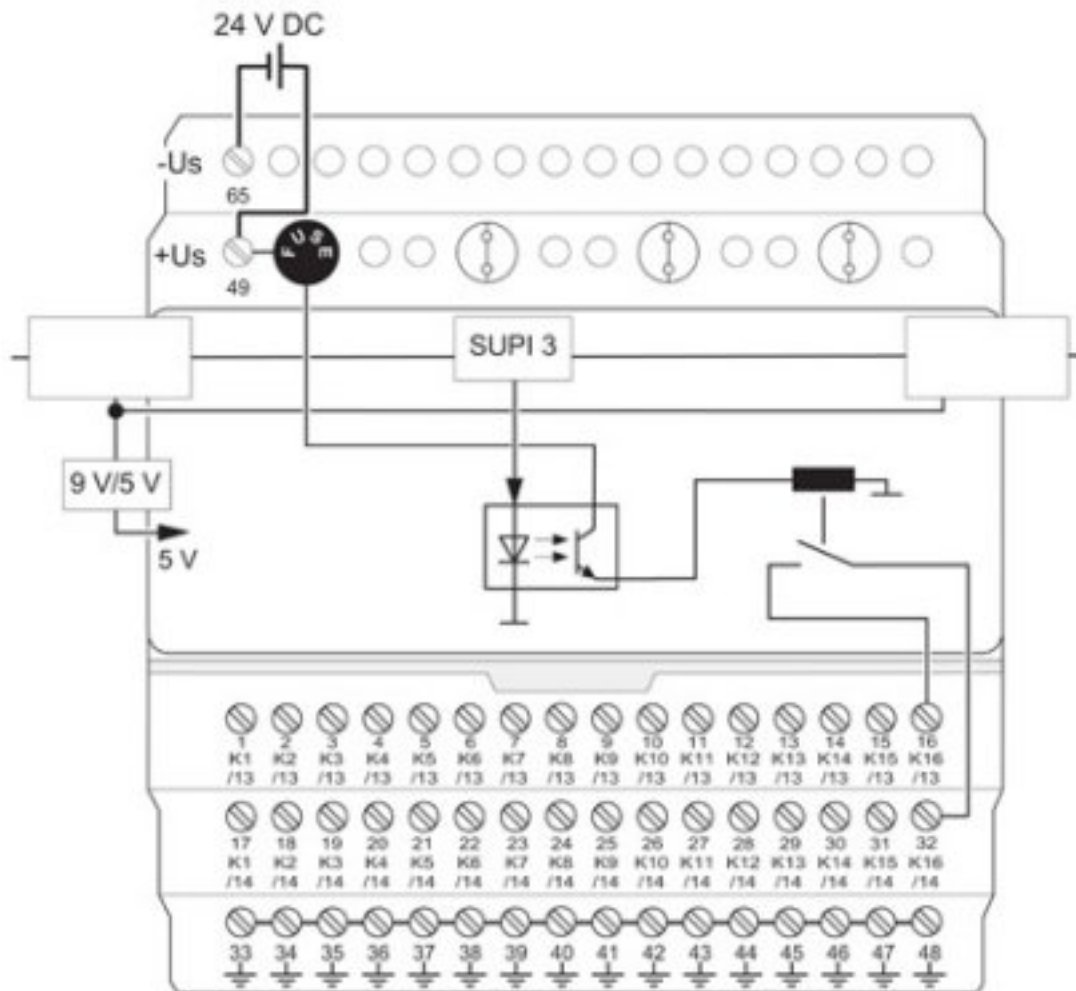Replacement module electronics for IB ST (ZF) 24 DO 16 R/S
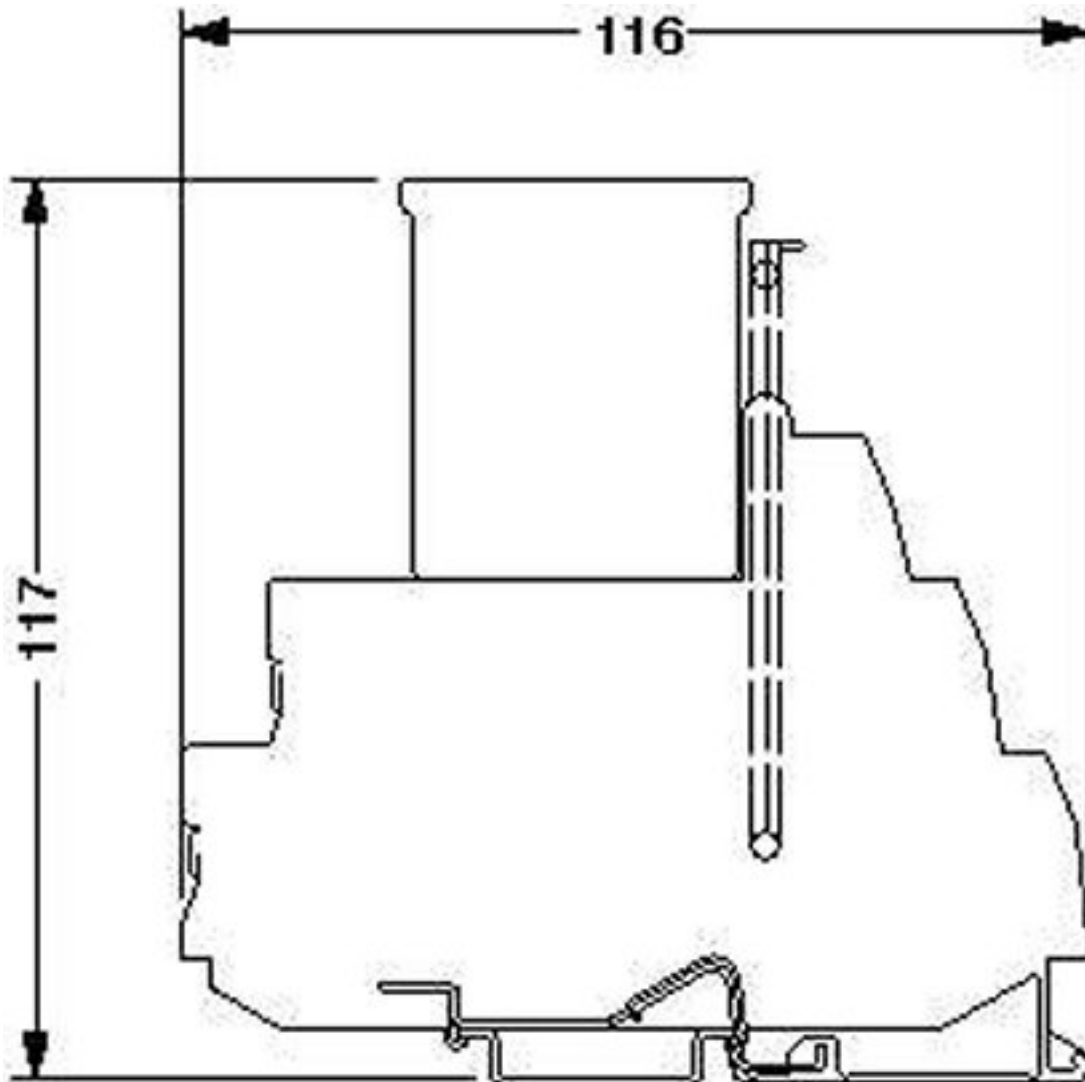
Drawings

Connection diagram

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Block diagram

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Dimensional drawing

Mouser Electronics

Authorized Distributor

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