

## 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
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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)	-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 <sub>pp</sub> within the allowable voltage range
Current consumption	100 mA

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## Technical data

### 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

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## Approval details

UL Recognized 

cUL Recognized 

EAC

cULus Recognized 

## Accessories

### Accessories

Bridge

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

### Accessories

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 0,4AT - 2753478



Replacement fuse, for INTERBUS-ST modules

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



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

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## 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

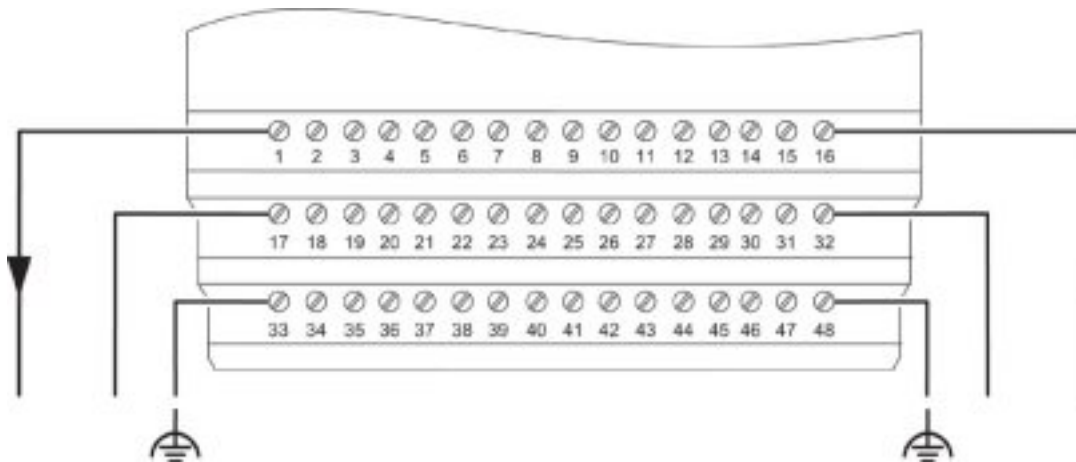
Replacement electronics module - IB STME 24 DO16R/S - 2721138



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

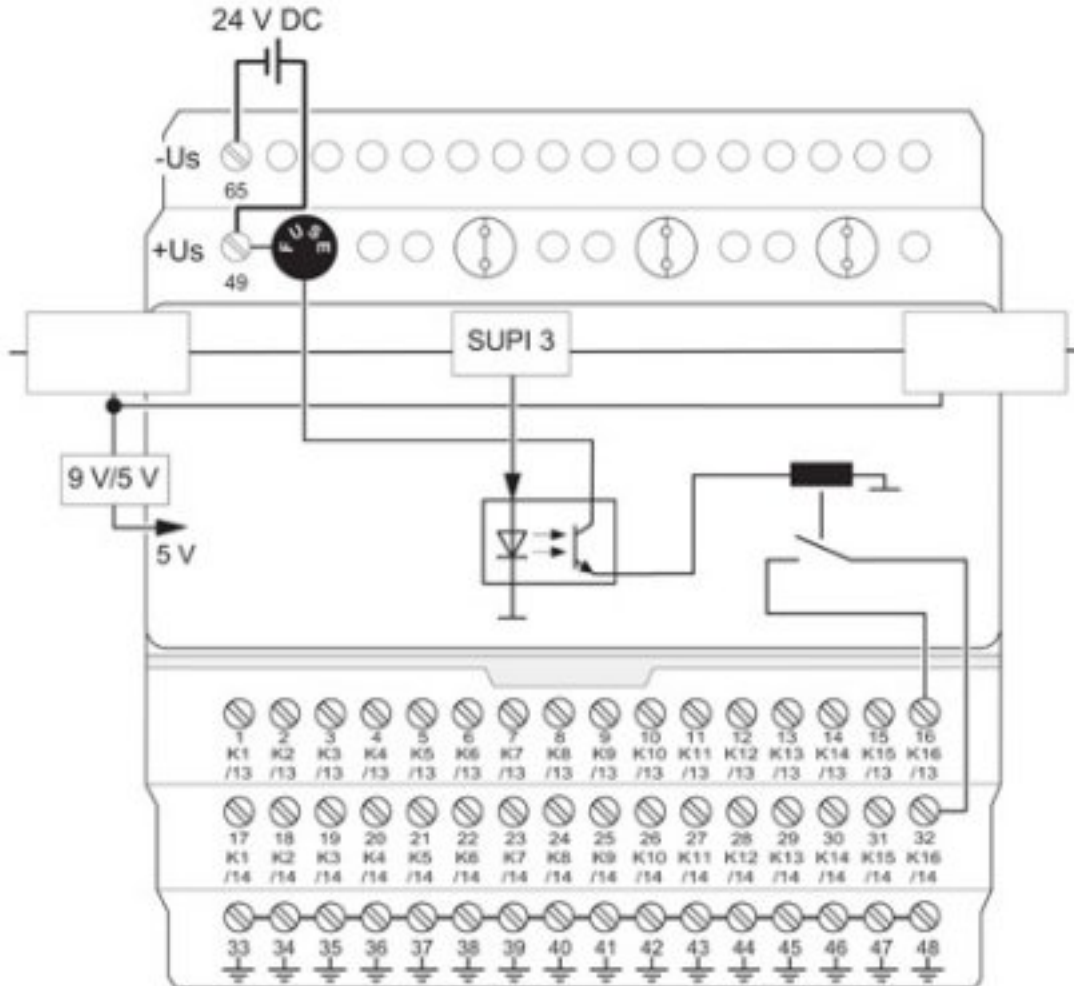
## Drawings

Connection diagram



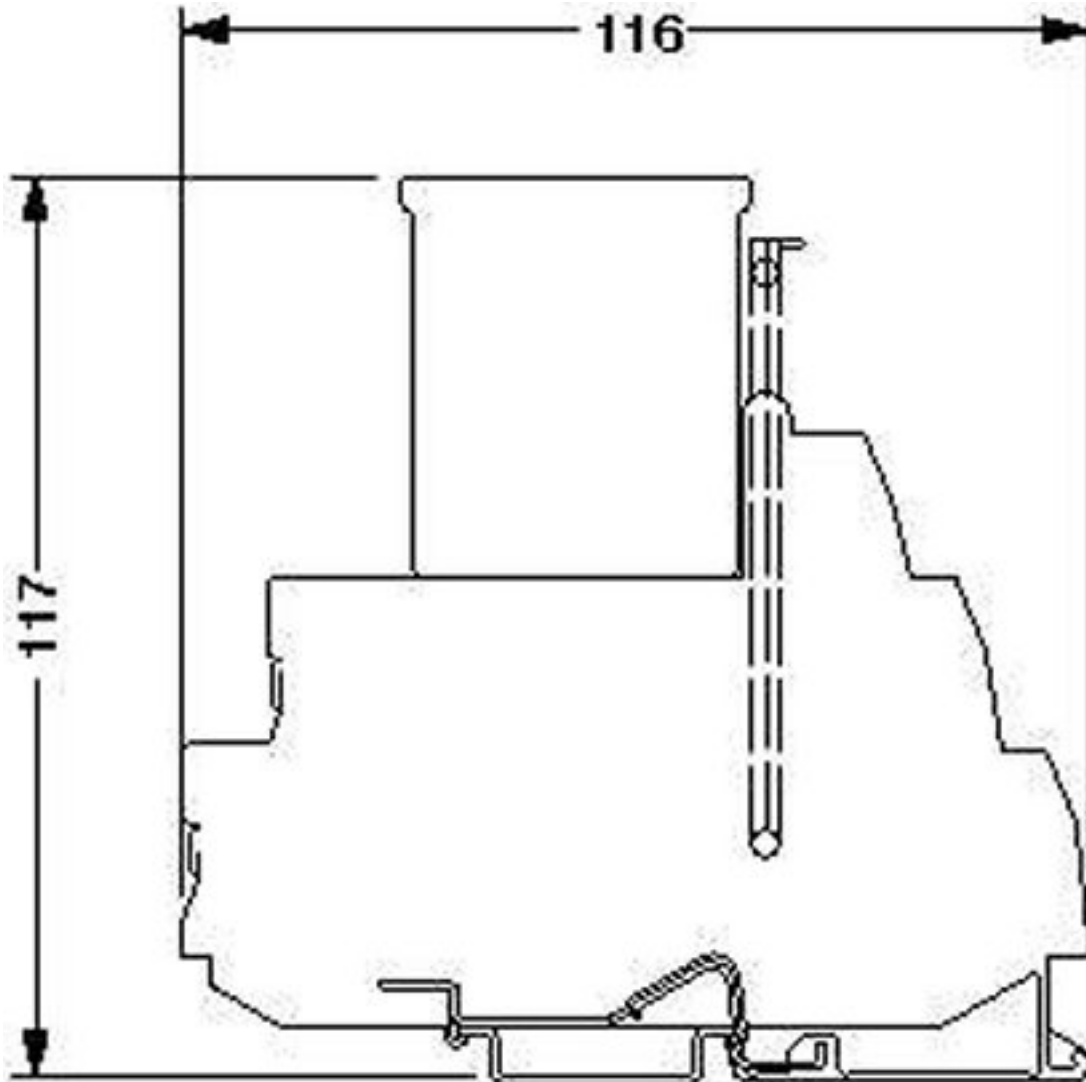
# I/O module - IB ST 24 DO16R/S - 2721112

Block diagram



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

Dimensional drawing





## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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