

## 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                                 | <br>4 017918 132323 |
| Weight per Piece (excluding packing) | 703.7 g   |
| Custom tariff number                 | 85389091  |
| Country of origin                    | Germany   |

### Technical data

#### Note

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

## 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 <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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# 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

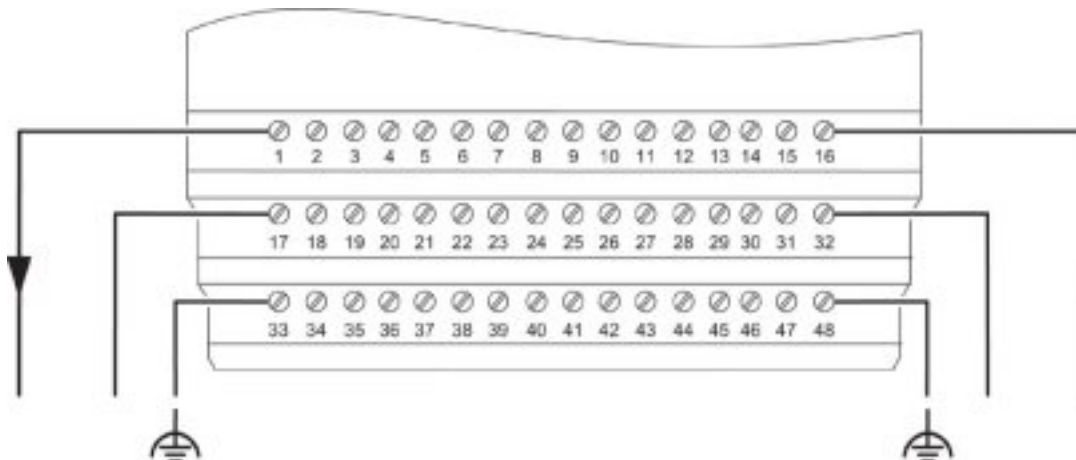
Replacement electronics module - IB STME 24 DO16R/S - 2721138



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

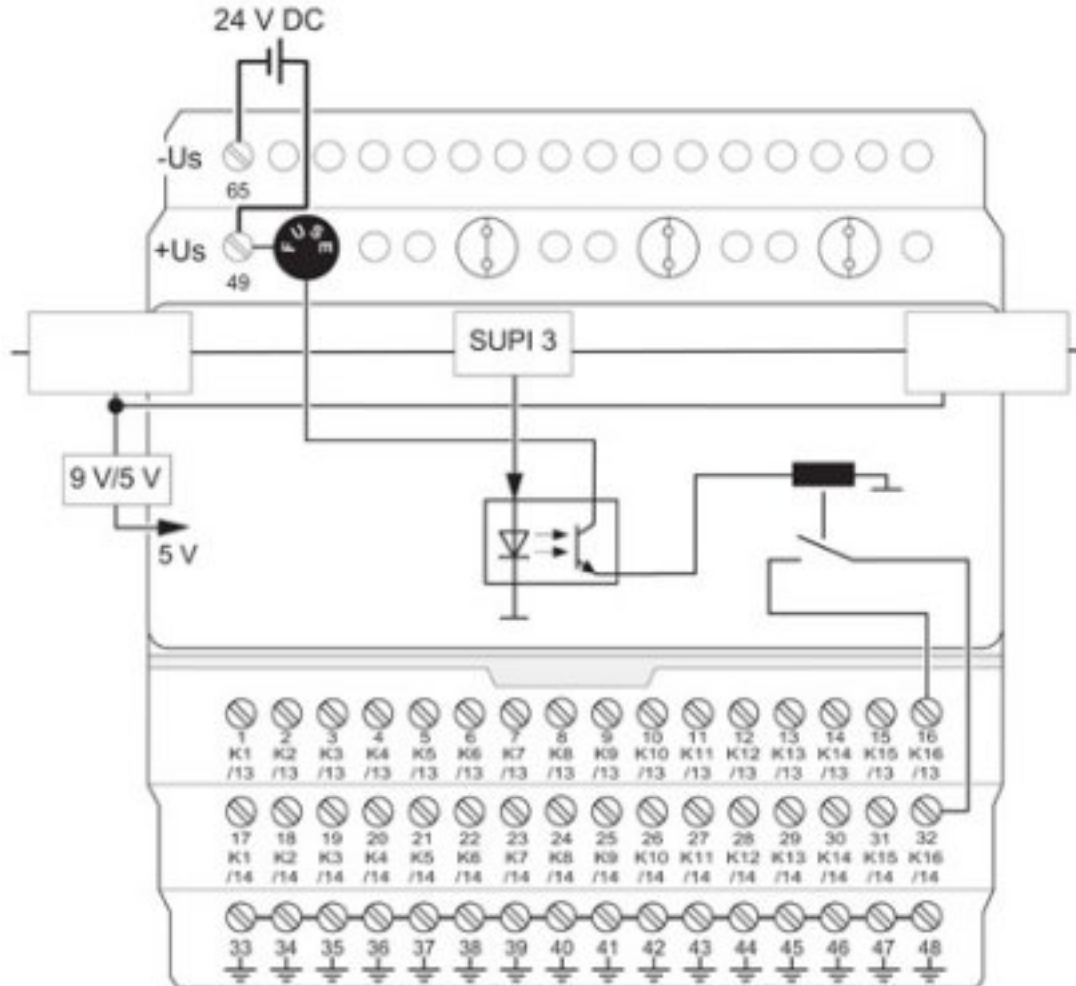
## Drawings

Connection diagram



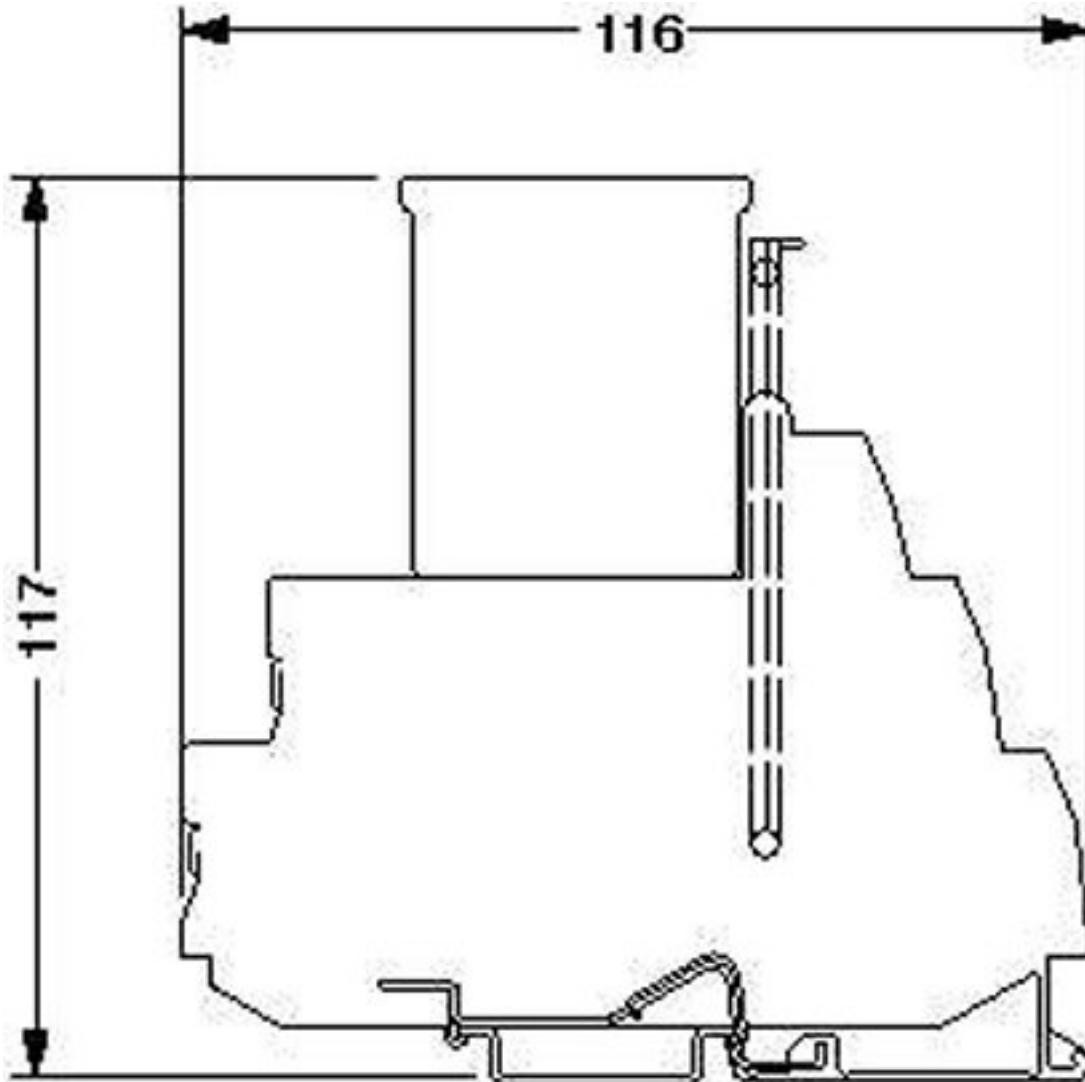
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Block diagram



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

Dimensional drawing





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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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