

IB ST 24 DIO 8/8/3-2A - I/O module



2753708

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INTERBUS-ST digital input/output module, eight inputs, 24 V DC, eight outputs, 24 V DC, 2 A, IP20 degree of protection, consisting of: Terminal part with screw connection and module electronics

Product description

INTERBUS-ST digital input and output modules

The digital INTERBUS input/output modules provide connection options for 8 sensors and 8 actuators in 3-conductor technology.

The module electronics have a plug-in design. In the event of an error, the passive basic terminal block remains on the DIN rail and the active electronics are replaced in just a few steps.

The modules are protected against polarity reversal and the outputs are additionally protected against short circuits with fuses. The state of the fuses is monitored; any errors that occur are reported to the controller.

Contact with the protective grounding is established directly when the modules are snapped onto the DIN rail.

The input/output status LED and bus diagnostics indicators on the top of the module electronics provide information about the module state at all times.

All modules can be marked individually via the large pull-out marking field. The insert cards can be marked by hand or using a plotter or printer. In addition, the terminal points can be marked individually with zack marker strips.

Your advantages

- 8 digital outputs
- 8 digital inputs
- Connection of actuators in 3-conductor technology
- Connection of sensors in 3-conductor technology
- Electrical isolation
- Diagnostic and status indicators
- DIN rail mounting

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2753708 |
| Packing unit | 1 pc |
| Sales key | DR03 |
| Product key | DRI334 |
| GTIN | 4017918062880 |
| Weight per piece (including packing) | 691 g |
| Weight per piece (excluding packing) | 710 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

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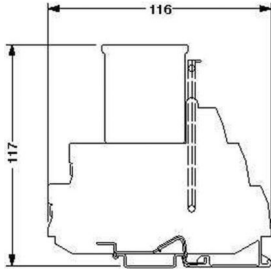


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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 118 mm |
| Height | 117 mm |
| Depth | 116 mm |

Interfaces

ST local bus

| | |
|--------------------|------------------------|
| Connection method | ST local bus connector |
| Transmission speed | 500 kbps |

Input data

Digital:

| | |
|-----------------------------------|-------------------------------------|
| Input name | Digital inputs |
| Number of inputs | 8 |
| Connection method | Screw connection |
| Connection technology | 3-conductor |
| 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) |
| Typical response time | 3 ms (typ.) |
| Protective circuit | Overload protection; Fuse in header |

Output data

Digital:

| | |
|----------------------------------|---|
| Output name | Digital outputs |
| Connection method | Screw connection |
| Connection technology | 3-conductor |
| Number of outputs | 8 |
| Protective circuit | Short-circuit protection; Fuse Overload protection; Fuse in header |
| Maximum output current per group | 8 A |

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2753708

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| | |
|---|--------------------|
| Maximum output current per channel | 2 A |
| Maximum output current per module / terminal block | 16 A |
| Maximum operating frequency with ohmic nominal load | max. 150 Hz (12 Ω) |

Product properties

| | |
|-------------------|------------------------------------|
| Product type | I/O component |
| Product family | Smart Terminal ST |
| Type | modular INTERBUS Smart Terminal |
| Mounting position | Horizontal DIN rail |
| No. of channels | 16 |

Electrical properties

Supply: Module electronics

| | |
|----------------------|--|
| Supply voltage | 24 V DC |
| Supply voltage range | 20 V DC ... 30 V DC (including ripple) |
| Current consumption | 0.2 A |
| Ripple | 3.6 V _{pp} within the allowable voltage range |

Electrical isolation/isolation of the voltage ranges

| | |
|--------------------------------------|------------------------|
| Test voltage: Bus logic / I/O | 500 V AC, 50 Hz, 1 min |
| Test voltage: I/O / Ground conductor | 500 V AC, 50 Hz, 1 min |

Connection data

Connection technology

| | |
|-----------------|----------------|
| Connection name | Terminal block |
|-----------------|----------------|

Terminal block

| | |
|-----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross-section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 86 kPa ... 108 kPa (1500 m above sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (3500 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 30 % ... 75 % (non-condensing) |
| Permissible humidity (storage/transport) | 30 % ... 95 % (non-condensing) |

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Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|-------------------|---------------------|
| Mounting type | DIN rail mounting |
| Mounting position | Horizontal DIN rail |

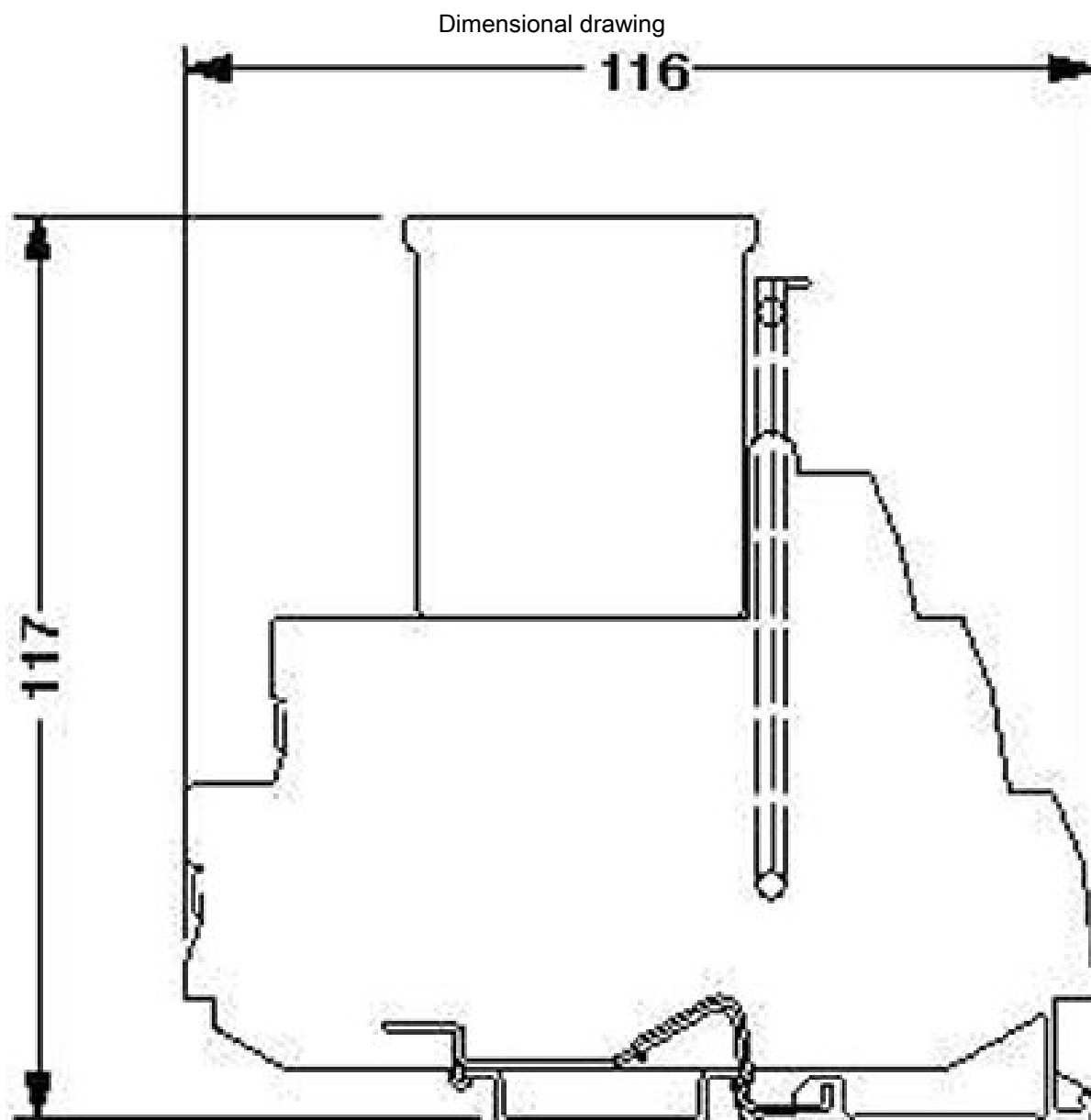
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Drawings



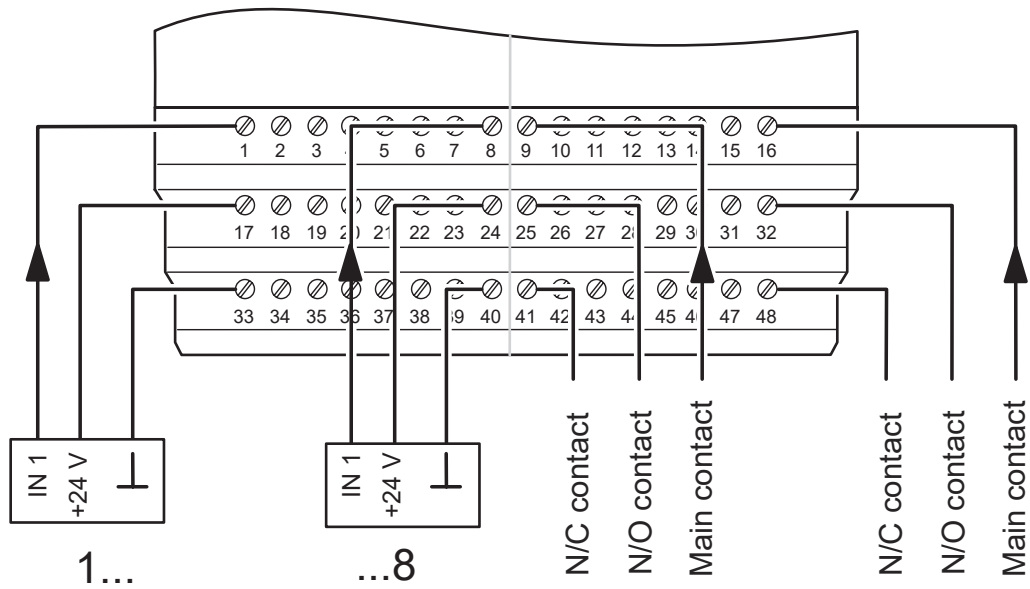
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Connection diagram

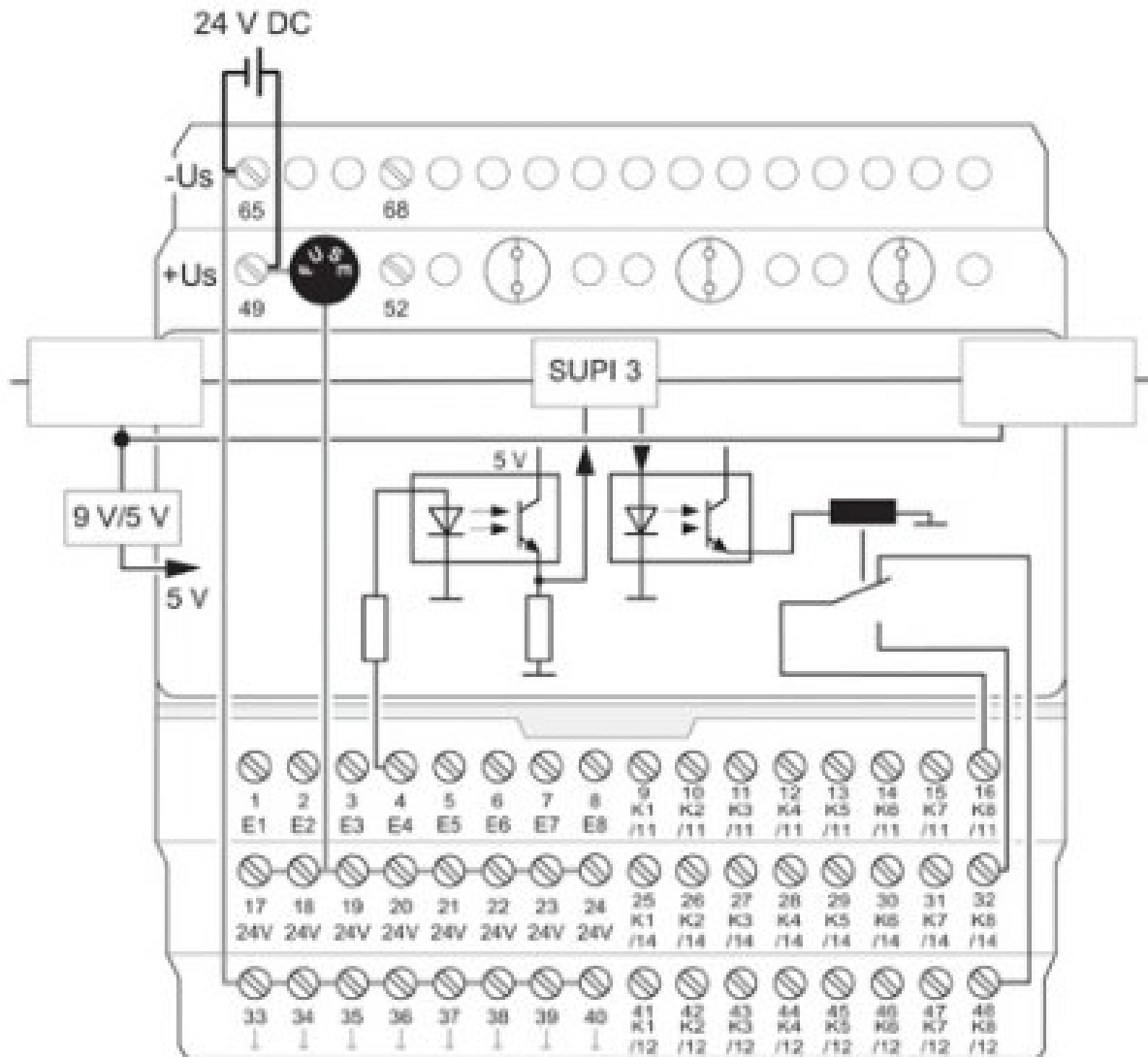


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Block diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242604 |
| ECLASS-15.0 | 27242604 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|----------------------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a), 6(a)-I, 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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