

# IB ST 24 DI32/2 - I/O module

2754927

<https://www.phoenixcontact.com/us/products/2754927>

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INTERBUS-ST digital input module, 32 inputs, 24 V DC, 2-conductor connection technology, IP20 degree of protection, consisting of: terminal part with screw connection and module electronics

## Product description

INTERBUS ST standard digital input modules

The digital INTERBUS input modules are designed for the connection of digital control signals, such as those generated by switches, limit switches, electronic proximity switches, and photoelectric switches.

The scope of functions provided by the standard models covers the majority of applications.

All the typical advantages of INTERBUS ST handling, such as multi-wire connection method and plug-in electronics are available.

## Your advantages

- 32 digital inputs
- Connection of sensors in 2-conductor technology
- Diagnostic and status indicators

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2754927       |
| Packing unit                         | 1 pc          |
| Sales key                            | DR03          |
| Product key                          | DRI331        |
| GTIN                                 | 4017918063405 |
| Weight per piece (including packing) | 701 g         |
| Weight per piece (excluding packing) | 689 g         |
| Customs tariff number                | 85389091      |
| Country of origin                    | DE            |

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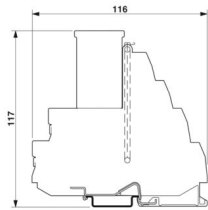
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## Technical data

### 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                  | 32                      |
| Connection method                 | Screw connection        |
| Connection technology             | 2-conductor             |
| Input voltage                     | 24 V DC                 |
| Input voltage range "0" signal    | -30 V DC ... 6 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 (typical)          |

### Product properties

|                   |                                    |
|-------------------|------------------------------------|
| Product type      | I/O component                      |
| Product family    | Smart Terminal ST                  |
| Type              | modular<br>INTERBUS Smart Terminal |
| Mounting position | Horizontal DIN rail                |
| No. of channels   | 32                                 |

### Electrical properties

#### Supply: Module electronics

|                |         |
|----------------|---------|
| Supply voltage | 24 V DC |
|----------------|---------|

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|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Supply voltage range | 20 V DC ... 30 V DC (including ripple)                 |
| Current consumption  | typ. 200 mA                                            |
| Ripple               | 3.6 V <sub>pp</sub> 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: Ground conductor / I/O     | 500 V AC, 50 Hz, 1 min |
| Test voltage: Supply voltage logic / I/O | 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 <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| 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)                 | 80 kPa ... 108 kPa (up to 2000 m above sea level)   |
| Air pressure (storage/transport)         | 80 kPa ... 108 kPa (up to 2000 m above sea level)   |
| Ambient temperature (storage/transport)  | -20 °C ... 70 °C                                    |
| Permissible humidity (operation)         | 75 % (on average, 85% infrequently, non-condensing) |
| Permissible humidity (storage/transport) | 75 % (on average, 85% infrequently, non-condensing) |

## 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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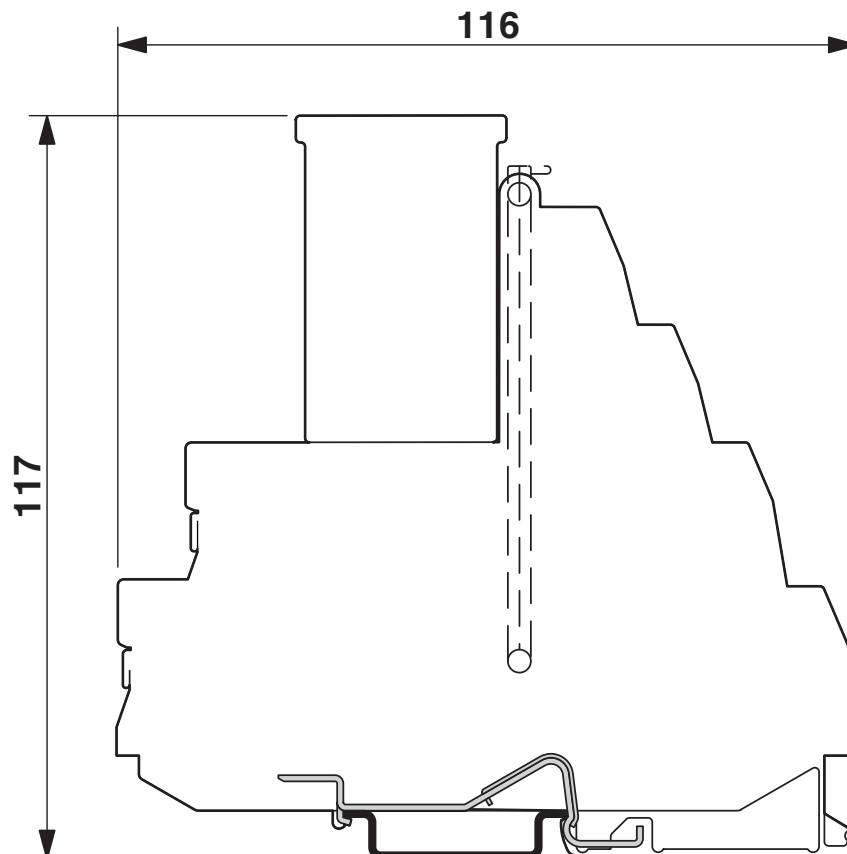
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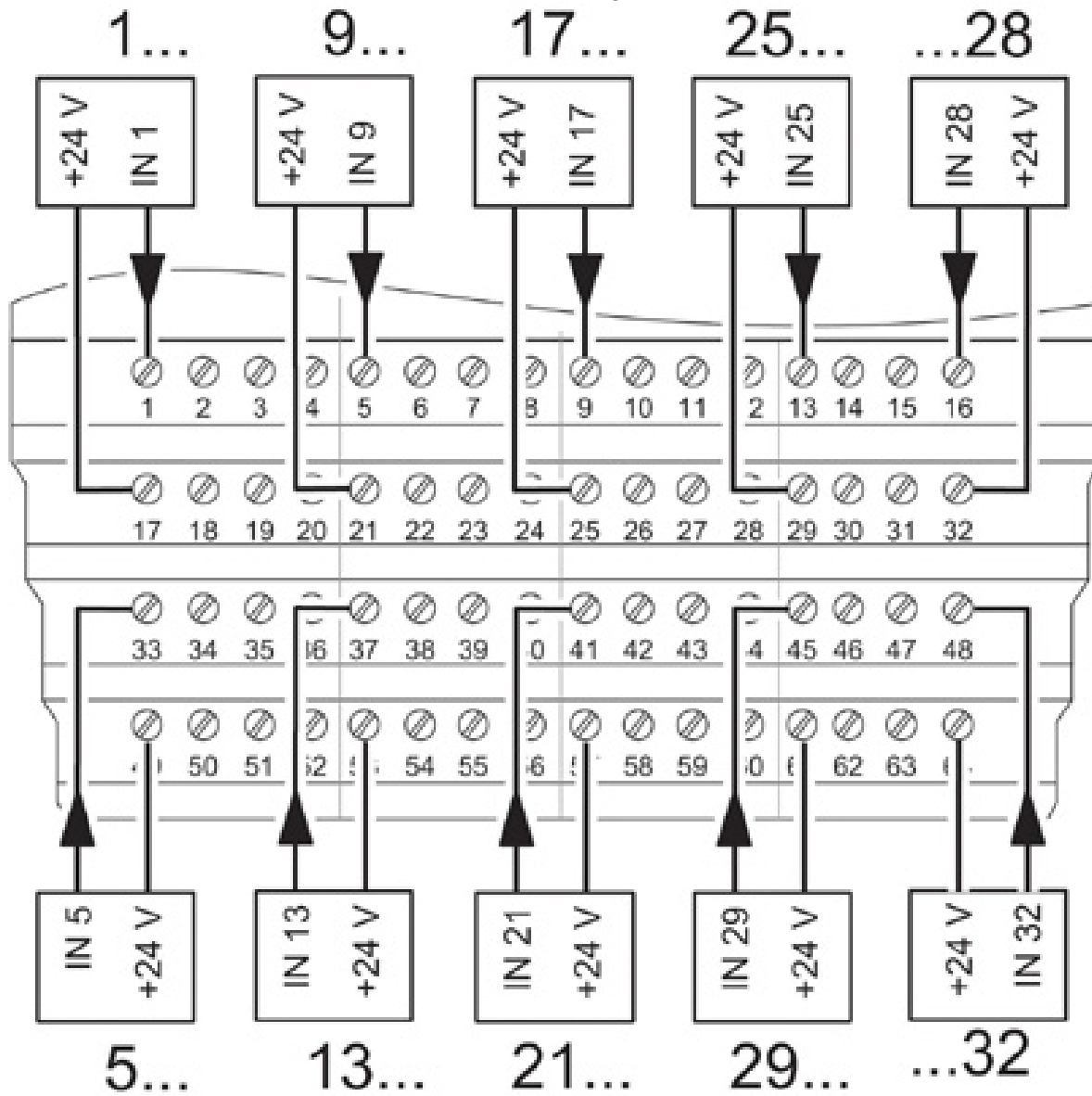


## Drawings

Dimensional drawing



Connection diagram

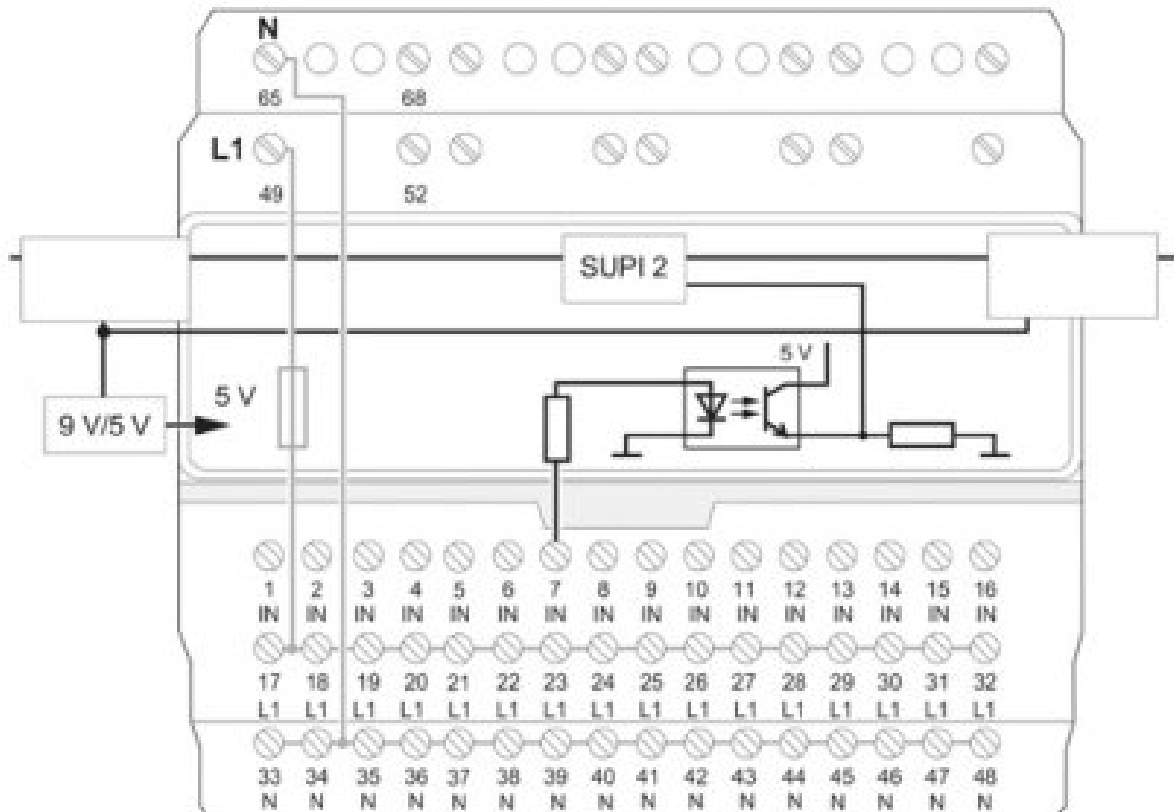


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Block diagram



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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) |
|-------------------------------------|----------------------|

### EF3.1 Climate Change

|         |                |
|---------|----------------|
| CO2e kg | 16.515 kg CO2e |
|---------|----------------|

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