

IB ST 24 DI 16/4 - I/O module

2754338

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INTERBUS-ST digital input module, 16 inputs, 24 V DC, 4-conductor connection technology, IP20 degree of protection, consisting of: terminal part with screw connection and module electronics

The figure shows version IB ST 24
BDI 16/4

Product description

INTERBUS ST 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

- 16 digital inputs
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Short-circuit protection for the sensor supply
- Diagnostic and status indicators

Commercial data

Item number	2754338
Packing unit	1 pc
Sales key	DR03
Product key	DRI331
GTIN	4017918063092
Weight per piece (including packing)	740 g
Weight per piece (excluding packing)	735.4 g
Customs tariff number	85176200
Country of origin	DE

IB ST 24 DI 16/4 - I/O module

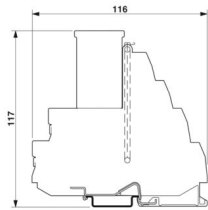
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Technical data

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	16
Connection method	Screw connection
Connection technology	4-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. 7 mA (per channel)
Typical response time	3 ms (typical)

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
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2754338

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Supply voltage range	20 V DC ... 30 V DC (including ripple)
Current consumption	typ. 100 mA
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: 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
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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)	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)
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Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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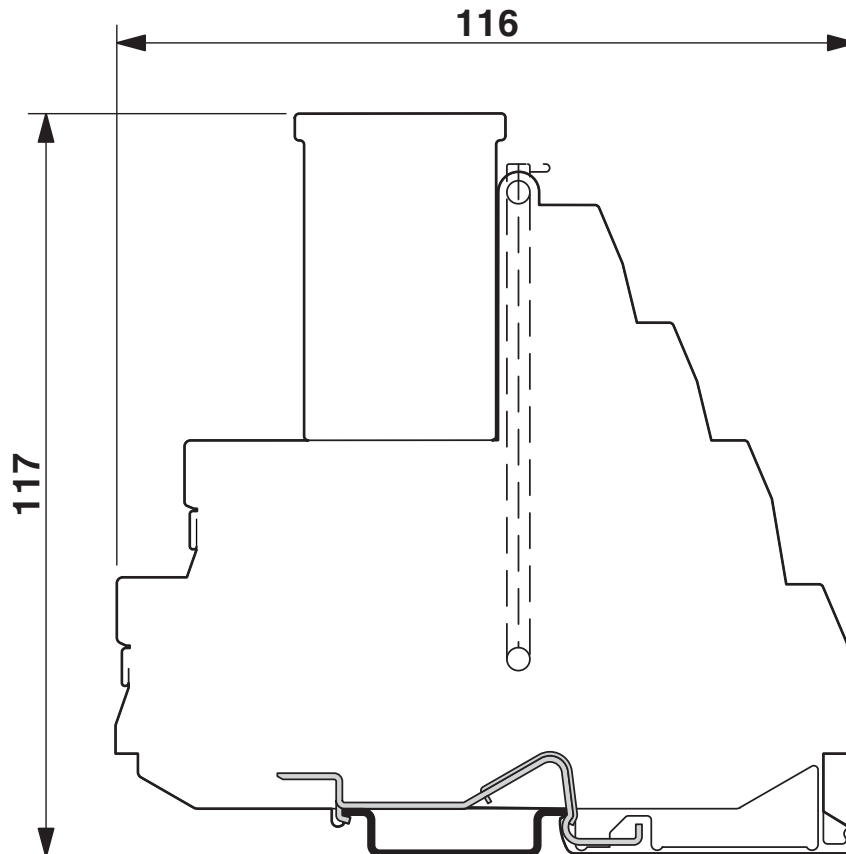
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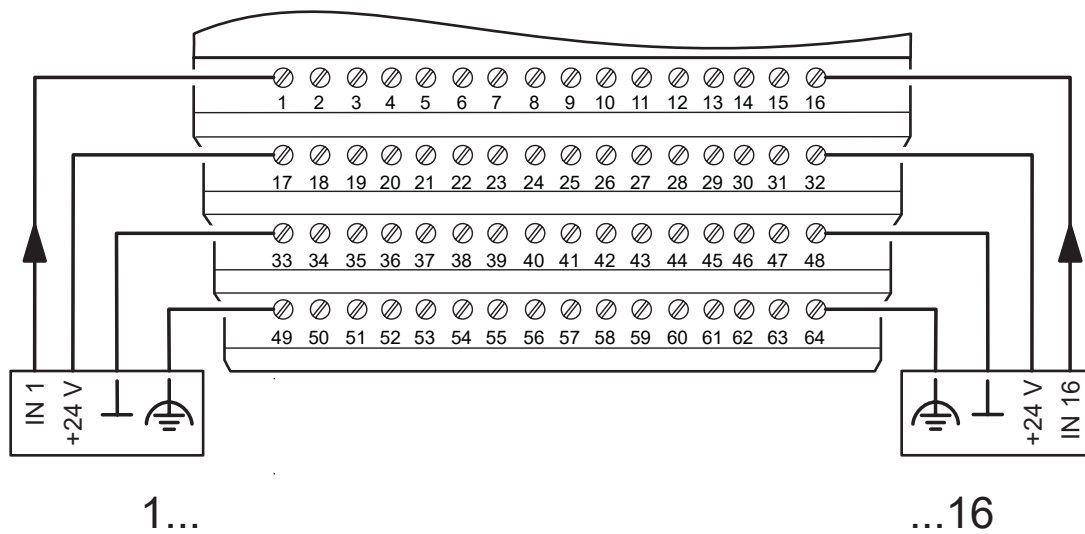


Drawings

Dimensional drawing



Connection diagram



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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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