

IB ST 24 DI32/2 - I/O module

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
Minimum order quantity	1 pc
Sales key	01
Product key	DRI331
Catalog page	Page 165 (C-6-2019)
GTIN	4017918063405
Weight per piece (including packing)	701 g
Weight per piece (excluding packing)	689 g
Customs tariff number	49019999
Country of origin	DE

IB ST 24 DI32/2 - I/O module

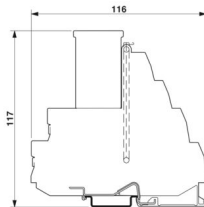
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Technical data

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	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 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 _{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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Conductor connection

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

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

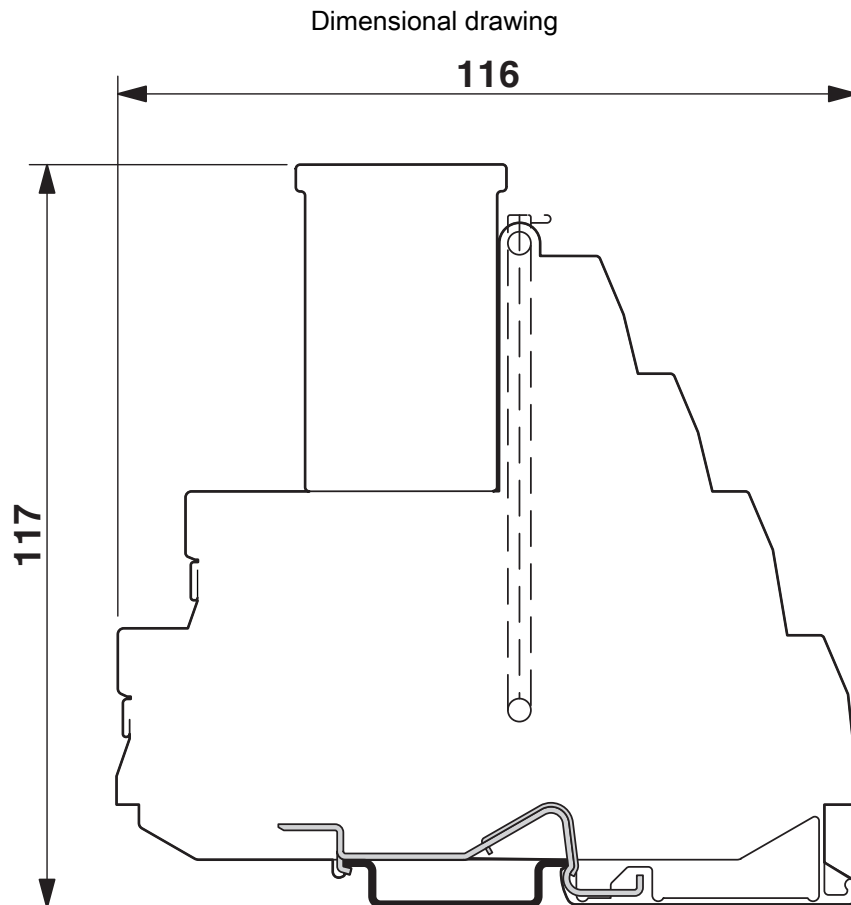
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Drawings



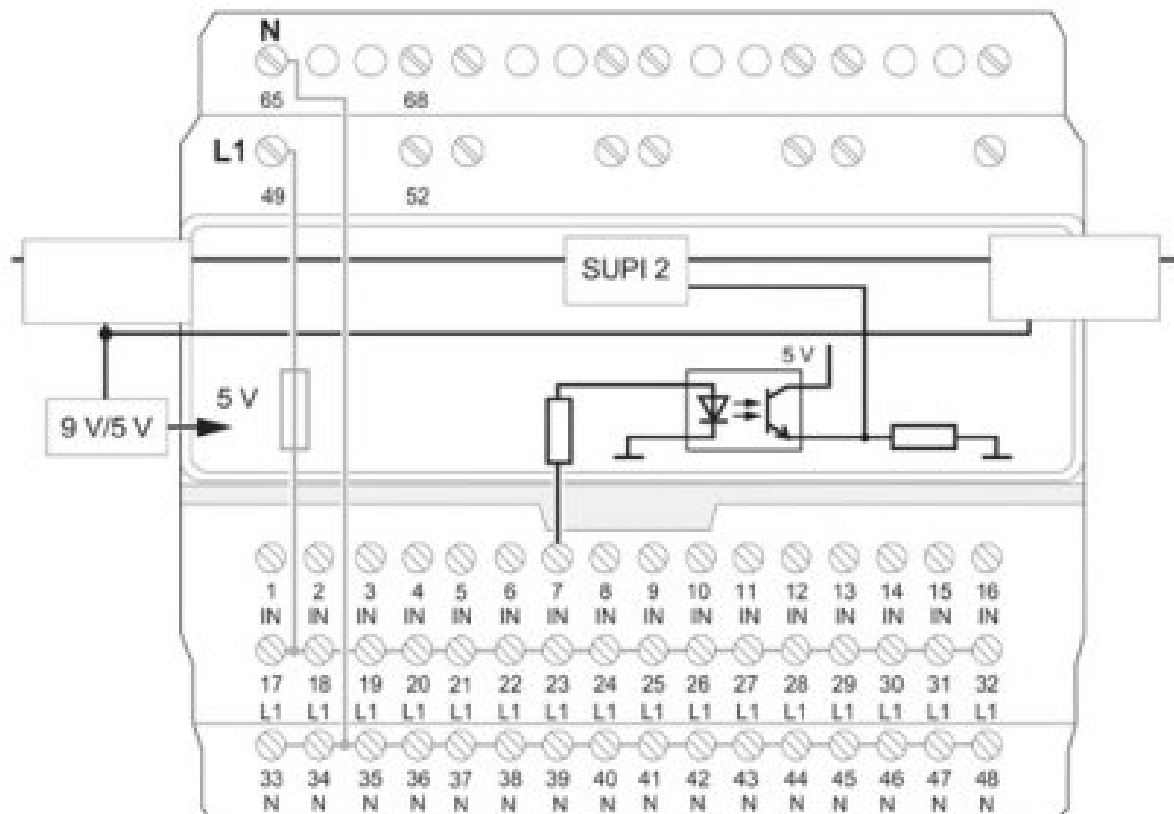
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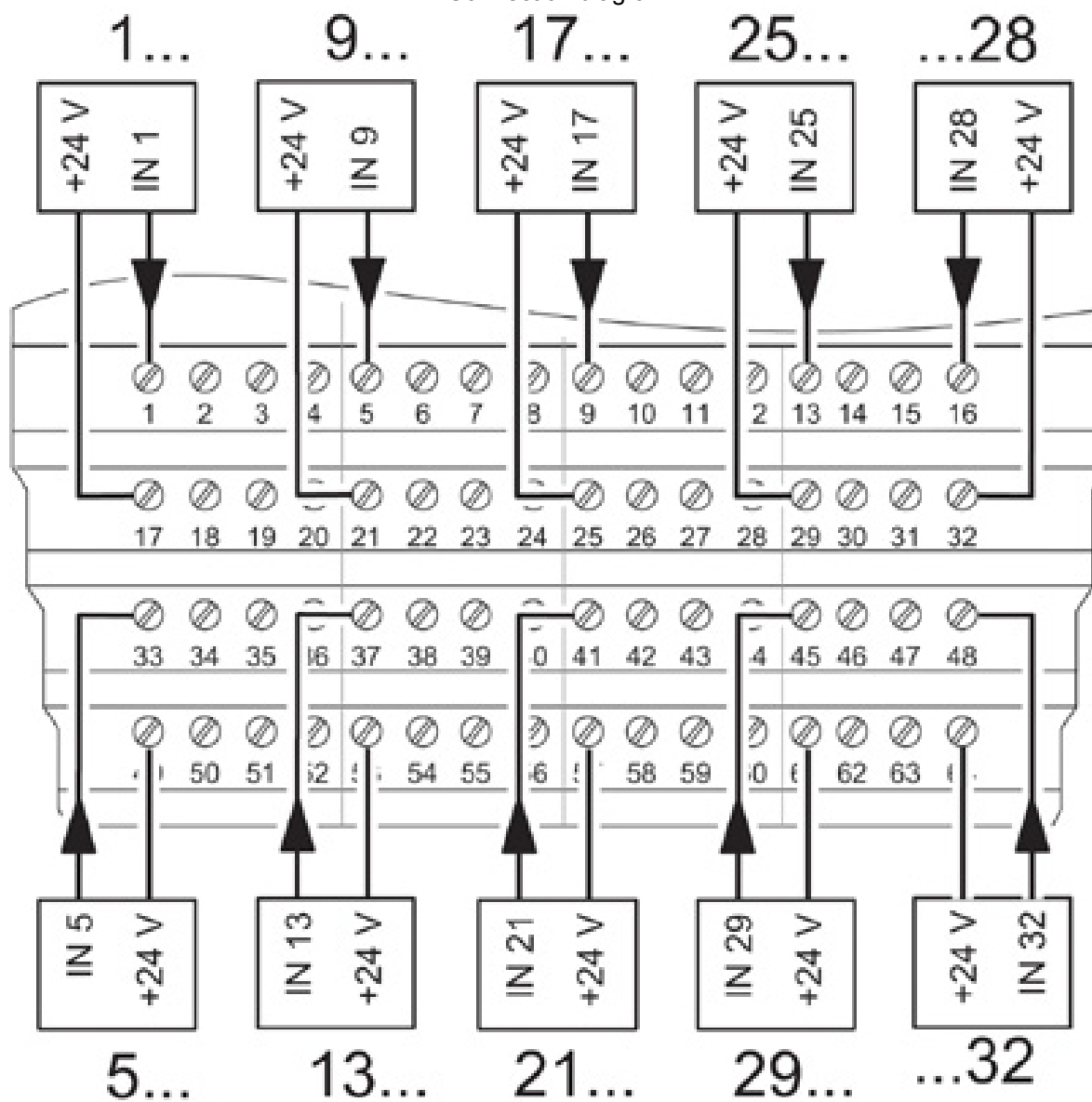
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Block diagram



Connection diagram



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Classifications

ECLASS

ECLASS-11.0	27242604
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ETIM

ETIM 8.0	EC001599
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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)
EF3.0 Climate Change	
CO2e kg	16.515 kg CO2e

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Accessories

IB STME 24 DI32/2 - Replacement electronics module

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Replacement module electronics for IB ST (ZF) 24 DI 32/2

IBS TR5 2AT - Fuse

2752505

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Replacement fuse, for INTERBUS-ST modules

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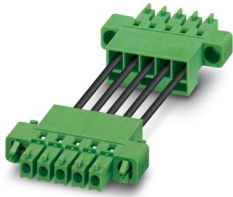


IB ST LBC - Bridge

2836492

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Spare local bus cable, for INTERBUS-ST modules



IB STTB 24 DI 32/2 - Replacement clamping part

2753012

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Replacement clamping part for IB ST 24 DI 32/2



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EB 84 IB ST BU - Insertion bridge

2836269

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Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.



EB 84 IB ST RD - Insertion bridge

2836272

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Insertion bridges, divisible, isolated comb spine, color red, 84-pos.



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AX+ BASIC - Software

2985068

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Software CD for FDT container for integrating device DTMs (free download)



AX DTM LIB - Programming software

2988065

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DTM library

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