

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

2753708

<https://www.phoenixcontact.com/us/products/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 mount

Commercial Data

Item number	2753708
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C21
Product Key	DRI334
Catalog Page	Page 165 (C-6-2019)
GTIN	4017918062880
Weight per Piece (including packing)	710 g
Weight per Piece (excluding packing)	710 g
Customs tariff number	85389091

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Country of origin	DE
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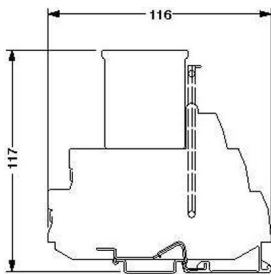
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Technical Data

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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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

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

Electrical properties

No. of channels	16
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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

Connection data

Connection technology

Connection name	Termination block
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Conductor connection

Connection method	Screw connection
Conductor cross section solid	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

Termination 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

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)

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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)
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Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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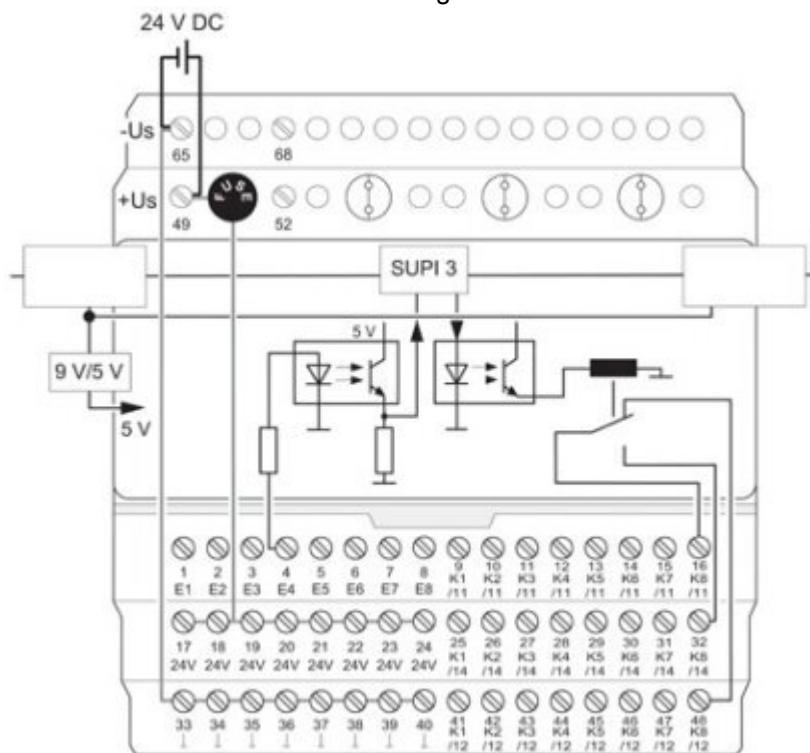
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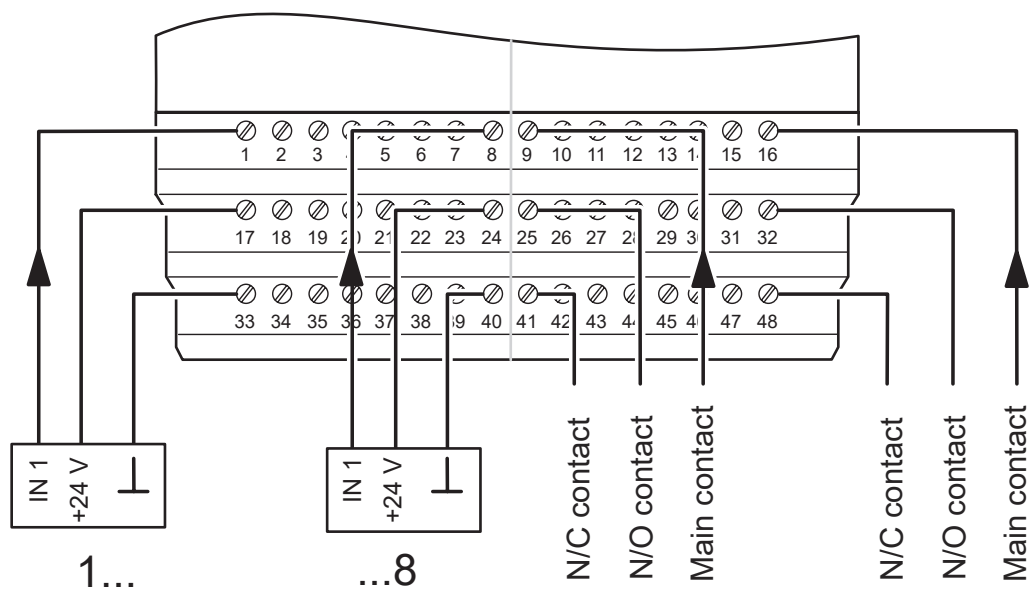


Drawings

Block diagram



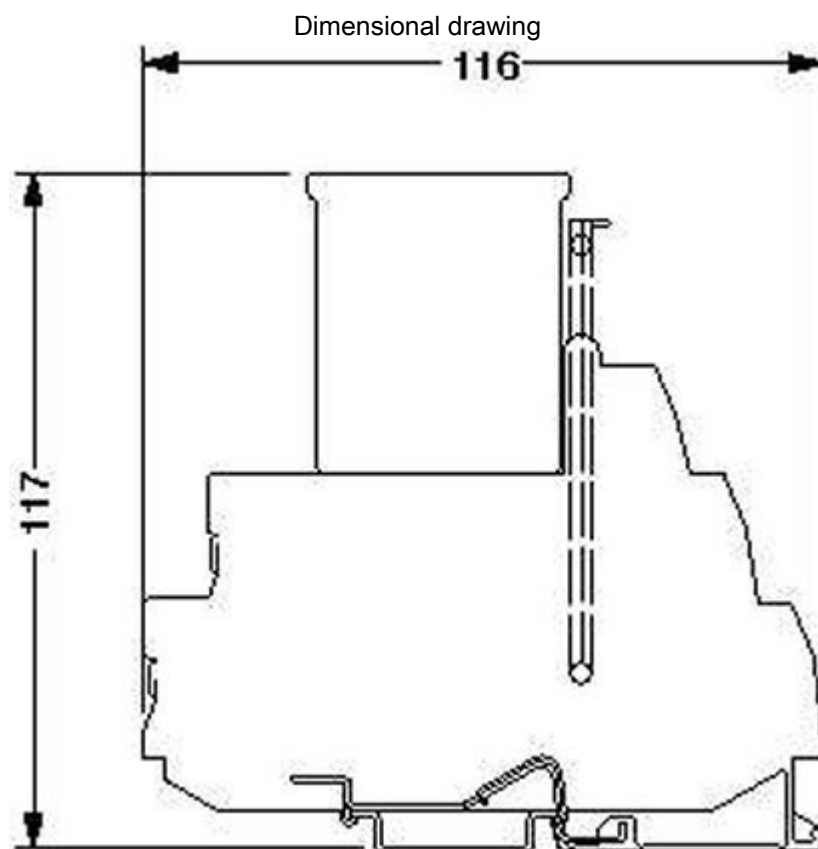
Connection diagram



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Approvals

cUL Recognized Approval ID: FILE E 140324				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			30 - 12	-

UL Recognized Approval ID: FILE E 140324				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			30 - 12	-

EAC Approval ID: TR_TS_D_01831-19				
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cULus Recognized				
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Classifications

ECLASS

ECLASS-10.0.1	27242604
ECLASS-9.0	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

Replacement electronics module

Replacement electronics module - IB STME 24 DIO 8/8/3-2A - 2752945

<https://www.phoenixcontact.com/us/products/2752945>



Replacement module electronics for IB ST (ZF) 24 DIO 8/8/3-2A

Fuse

Fuse - IBS TR5 4AF - 2753465

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Replacement fuse, for INTERBUS-ST modules

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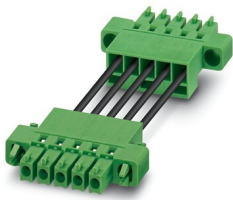
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Bridge

Bridge - IB ST LBC - 2836492

<https://www.phoenixcontact.com/us/products/2836492>



Spare local bus cable, for INTERBUS-ST modules

Insertion bridge

Insertion bridge - EB 84 IB ST BU - 2836269

<https://www.phoenixcontact.com/us/products/2836269>



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

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Insertion bridge

Insertion bridge - EB 84 IB ST RD - 2836272

<https://www.phoenixcontact.com/us/products/2836272>

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



Software

Software - AX+ BASIC - 2985068

<https://www.phoenixcontact.com/us/products/2985068>

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



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Programming software

Programming software - AX DTM LIB - 2988065

<https://www.phoenixcontact.com/us/products/2988065>



DTM library

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