

https://www.phoenixcontact.com/il/products/2750646



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INTERBUS-ST digital output module, 16 outputs, 24 V DC, 500 mA, 3-conductor connection technology, IP20 degree of protection, consisting of: terminal part with spring-cage connection and module electronics

Product description

INTERBUS ST digital output modules

The digital INTERBUS output modules are designed for the connection of digital actuators, such as electromechanical valves, contactors or lamps. In addition to the standard IB ST 24 BDO modules, the range is rounded off by modules with extended functionality.

The scope of functions provided by the standard models covers the majority of applications. On top of this, several modules provide additional electronic functions, such as:

- Output channels in up to four electrically isolated groups
- Separate electronic short-circuit protection for each output channel
- Higher output current, which are needed in individual applications.

All the typical advantages of INTERBUS-ST handling, such as multi-wire connection methods and plug-in electronics are provided by both product lines.

Your advantages

- · Spring-cage connection with direct plug-in technology with a release mechanism
- · Diagnostic and status indicators
- Total current of the terminal: 8 A
- · Nominal current per output: 500 mA
- · Connection of actuators in 3-conductor technology
- 16 digital outputs

Commercial data

Item number	2750646
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI332
GTIN	4017918132224
Weight per piece (including packing)	722.5 g
Weight per piece (excluding packing)	700.5 g
Customs tariff number	85389091
Country of origin	DE



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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

Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit protection; electronic
Maximum output current per group	2 A
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	8 A
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W (per output)
Nominal load, ohmic	12 W (per output)
Maximum operating frequency with ohmic nominal load	300 Hz (48 Ω)

Product properties

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

Electrical properties



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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	100 mA
Ripple	3.6 V _{pp} within the allowable voltage range
Electrical isolation/isolation of the voltage ranges	
Test voltage: Module electronics/Channel groups	500 V AC, 50 Hz, 1 min.
Test voltage: Ground conductor/channel groups	500 V AC, 50 Hz, 1 min.
Test voltage: Between channel groups	500 V AC. 50 Hz. 1 min.

Connection data

Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Connection method	Spring-cage connection
Conductor cross section, rigid	0.2 mm² 1.5 mm²
Conductor cross section, flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16

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)	75 % (on average, 85% infrequently, non-condensing)
Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)

Standards and regulations

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Mounting

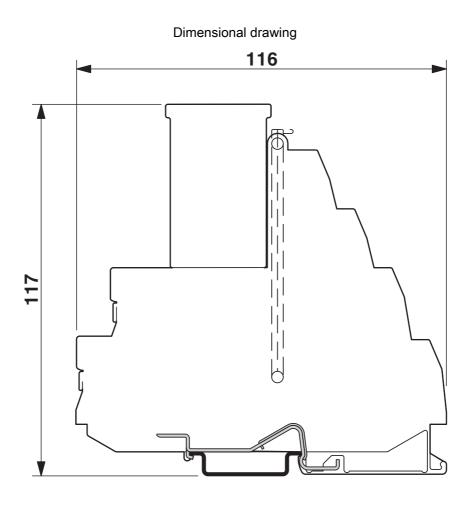
Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail



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Drawings

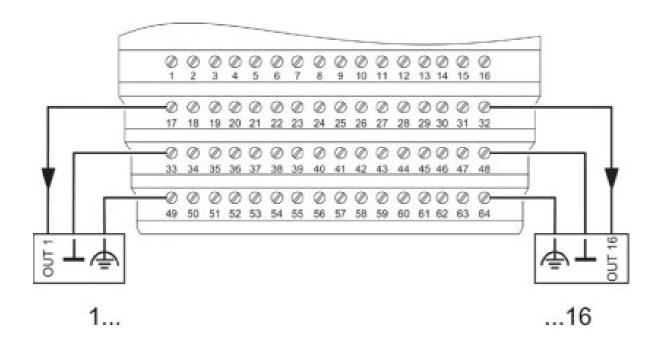




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Connection diagram

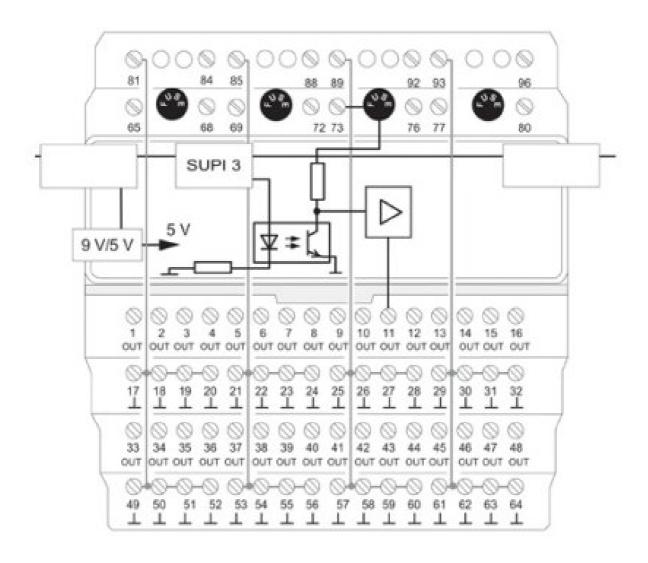


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Block diagram





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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)

No substance above 0.1 wt%



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Accessories

IB STME 24 DO16/3 - Replacement electronics module

2754943

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Replacement module electronics for IB ST (ZF) 24 DO 16/3

IBS TR5 4AT - Fuse

2750374

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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



IBS TR5 4AF - Fuse

2753465

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Replacement fuse, for INTERBUS-ST modules

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