PHŒNIX CONTACT

I/O module - IB ST 24 DO16R/S - 2721112

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INTERBUS-ST digital output module, 16 relay N/O contact outputs, 3-conductor connection technology, IP20 degree of protection, consisting of: terminal part with screw connection and module electronics

Product Description

INTERBUS ST digital output modules for AC voltages
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

☑ 16 relay outputs

☑ Connection of actuators in 3-conductor technology

☑ Floating relay contacts

☑ Diagnostic and status indicators

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 132323
GTIN	4017918132323
Weight per Piece (excluding packing)	703.700 g
Custom tariff number	85389091
Country of origin	Germany

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	118 mm
Height	117 mm
Depth	116 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	75 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	86 kPa ... 108 kPa (1500 m above sea level)
Degree of protection	IP20

Interfaces

Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kbps

Digital outputs

Output name	Relay output
Connection method	Screw connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit protection electronic
Nominal output voltage	230 V AC
Nominal load, inductive	200 VA
Nominal load, lamp	75 W
Nominal load, ohmic	750 W

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Ripple	3.6 V_{pp} within the allowable voltage range
Current consumption	100 mA

General

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Technical data

General

Mounting type	DIN rail
Net weight	685 g
Mounting position	Horizontal DIN rail

Electrical isolation

Test section	Main contact / N/O contact (per relay) 750 V AC 50 Hz 1 min.
	Contact / Contact (within a group) 1000 V AC 50 Hz 1 min.
	Group / Group 2000 V AC 50 Hz 1 min.
	Groups / 24 V 2000 V AC 50 Hz 1 min.
	Groups / 24 V 2000 V AC 50 Hz 1 min.
	24 V / PE 500 V AC 50 Hz 1 min.

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 11.0	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

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Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
EAC			EAC-Zulassung
cULus Recognized			