

IB ST 24 DIO 8/8R/3

Order No.: 2751849

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INTERBUS-ST digital input/output module, 8 inputs, 24 V DC, 8 relay PDT outputs, IP20 protection, consisting of: Terminal part with screw connection and module electronics

Commercial data

GTIN (EAN)	 4 017918 139599
sales group	K401
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 237 (AX-2011)

Product notes

WEEE/RoHS-compliant since:
10/19/2010



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Product description

INTERBUS ST digital input and output modules

The digital INTERBUS input/output modules provide the option of connecting 8 sensors and 8 actuators with two or three-wire connections.

The electronics module is a plug-in type. In the event of a malfunction, the passive basic termination block remains on the DIN rail and the active electronics module can be replaced within a few seconds.

The modules are protected against polarity reversal and the outputs are additionally protected against short-circuiting with fuses. The status of the fuses is monitored and any errors which occur are passed on to the control system.

The contact with the protective earth ground is made directly when the module is snapped onto the DIN rail.

Input/output status LEDs and bus diagnostic displays on the top side of the module electronics give information on the condition of the module at any time.

All the modules can be labeled individually on the large, pull-out labeling field. The insert cards can be labeled by hand, plotter, or printer. The terminal points can also be labeled individually with Zack strip.

Technical data

Interface

Fieldbus system	Lokalbus
Name	ST local bus
Connection method	ST local bus connector

Digital inputs

Input name	Digital inputs
Connection method	Screw connection
	3-conductor
Number of inputs	8
Typical response time	3 ms (typ.)
Protective circuit	Overload protection Fuse in header
	Short-circuit protection Fuse in header
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)

Digital outputs

Output name	Relay output
Connection method	Screw connection
	3-conductor
Number of outputs	8
Protective circuit	Short-circuit protection Electronic
Nominal output voltage	250 V AC
Maximum output current per channel	3 A
Nominal load, inductive	48 VA
Nominal load, lamp	24 W
Nominal load, ohmic	48 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	0.2 A
Communications power U _L	9 V DC
Current consumption	max. 100 mA

General data

Width	118 mm
Height	117 mm
Depth	116 mm
Weight	770 g
Mounting type	DIN rail
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	30 % ... 75 % (no condensation)
Permissible humidity (storage/transport)	30 % ... 95 % (no condensation)
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)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Bus logic / I/O 500 V AC 50 Hz 1 min
	I/O / Ground conductor 500 V AC 50 Hz 1 min
	Relay contacts / I/O 1500 V AC 50 Hz 1 min
	Relay contacts / Ground conductors 1500 V AC 50 Hz 1 min
	Relay contact / Bus logics 1500 V AC 50 Hz 1 min
	Relay contacts one below the other 1000 V AC 50 Hz 1 min

Certificates / Approvals



Certification

CUL, GOST, UL

Accessories

Item	Designation	Description
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Bridges

2836269	EB 84 IB ST BU	Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.
2836272	EB 84 IB ST RD	Insertion bridges, divisible, isolated comb spine, color red, 84-pos.

Cable/conductor

2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
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Fuse

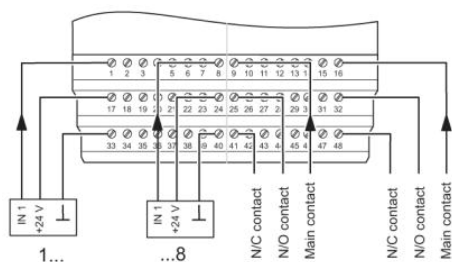
2753478	IBS TR5 0,4AT	Replacement fuse, for INTERBUS-ST modules
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Replacement module electronics

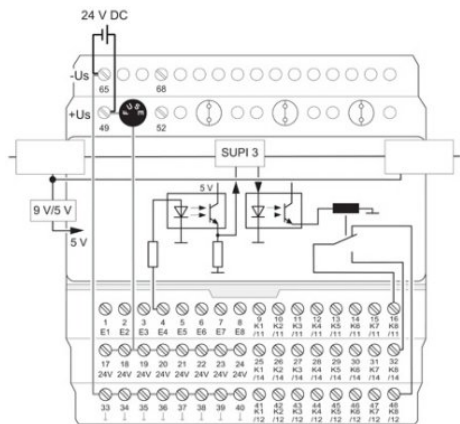
2751836	IB STME 24 DIO 8/8R/3	Replacement module electronics for IB ST (ZF) 24 DIO 8/8R/3
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Diagrams/Drawings

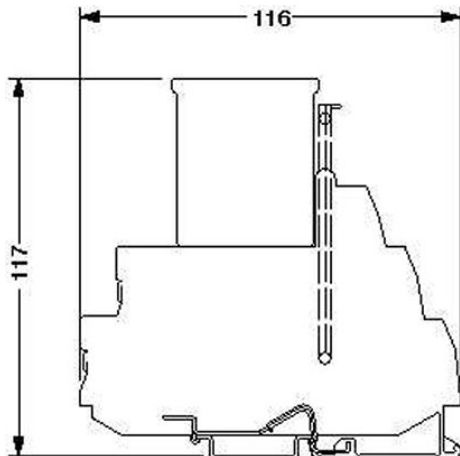
Connection diagram



Block diagram



Dimensioned drawing



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



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