

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

Your advantages

- ✓ 8 digital outputs
- ✓ 8 digital inputs
- ✓ Connection of actuators in 3-wire technology
- ✓ Connection of sensors in 3-wire technology
- ✓ Electrical isolation
- ✓ Diagnostic and status indicators
- ✓ DIN rail mounting

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918062880

Technical data

Note

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Technical data

Note

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

Width	118 mm
Height	117 mm
Depth	116 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	30 % ... 75 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
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

Interfaces

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

Digital inputs

Input name	Digital inputs
Connection method	Screw connection
Connection technology	3-wire
Number of inputs	8
Typical response time	3 ms (typ.)
Type of protection	Overload protection
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	Digital outputs
Connection method	Screw connection
Connection technology	3-wire
Number of outputs	8
Type of protection	Short-circuit protection
	Overload protection
Maximum output current per channel	2 A
Maximum output current per module / terminal block	16 A
Maximum output current per group	8 A

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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

General

Mounting type	DIN rail
Net weight	710 g

Electrical isolation

Test section	Bus logic / I/O 500 V AC 50 Hz 1 min.
	I/O / Ground conductor 500 V AC 50 Hz 1 min.

Standards and Regulations

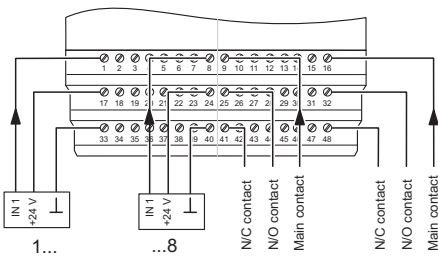
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Connection diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

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Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
mm²/AWG/kcmil		30-12	

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
mm²/AWG/kcmil		30-12	

EAC		EAC-Zulassung
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cULus Recognized	
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