

IBS RL 24 DO 8/8-2A-T - Distributed I/O device



2731856

<https://www.phoenixcontact.com/us/products/2731856>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Digital output device for INTERBUS; twisted pair with 500 kbaud, 8 outputs (24 V DC, 2 A), actuator connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection



Product description

INTERBUS Ruggedline modules are provided for harsh ambient conditions or in the case of high requirements regarding system diagnostics. To ensure maximum availability, these modules are equipped with a zinc die-cast housing (IP67). This means they can even be mounted in the immediate vicinity of welding tongs, for example. Each Ruggedline module consists of a mounting panel and electronics module. The electronics module is snapped onto the mounting panel and fastened with two screws, if necessary. Peripheral faults can be clearly localized using the extended diagnostics. Short circuits in the sensor supply are signaled in groups of four inputs each, for example. And, in the case of a short circuit at an output, the respective output is even displayed directly. This information is made available to the controller as well as displayed on the module. For the modules with a fiber-optic connection, the diagnostic capability goes one step further. D

Your advantages

- M12 connector for I/O devices
- Rugged Line connector for INTERBUS, either with fiber optic or twisted pair, and supply voltage
- Comprehensive diagnostic functions
- Rugged metal housing

Commercial data

Item number	2731856
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI513
GTIN	4017918187088
Weight per piece (including packing)	834.7 g
Weight per piece (excluding packing)	720 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	179 mm
Height	67 mm
Depth	71 mm
Note on dimensions	with bus connection plugs and mounting panel

Interfaces

INTERBUS

Connection method	Twisted pair
Transmission speed	500 kbps
Transmission physics	Copper

Output data

Digital:

Output name	Digital outputs
Connection technology	2-, 3-conductor
Number of outputs	8
Protective circuit	Electronic short-circuit/overload protection for each channel
Output voltage	24 V DC
Maximum output current per channel	2 A
Maximum output current per module	8 A
Nominal output voltage	24 V
Output voltage when switched off	max. 1 V
Output current when switched off	max. 100 µA
Nominal load, inductive	48 VA (1,2 H, 12 Ω)
Nominal load, lamp	48 W
Nominal load, ohmic	48 W
Maximum operating frequency with ohmic nominal load	max. 300 Hz
Reverse voltage resistance to short pulses	Limited protection against reverse voltages up to 2 A DC
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Overcurrent shut-down	min. 2.3 A
Output current with ground connection interrupt when switched off	max. 25 mA

Product properties

Product type	I/O component
Product family	Ruggedline
Type	Block design
No. of channels	8

Electrical properties

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 32 V DC (including ripple)
Supply current	typ. 120 mA
Ripple	Max 3.6 V _{SS} within the permissible voltage range

Electrical isolation/isolation of the voltage ranges

Test voltage: Between bus logic and outputs	500 V AC, 50 Hz, 1 min
---	------------------------

Connection data

Connection method	QUICKON fast connection
-------------------	-------------------------

Environmental and real-life conditions

Ambient conditions

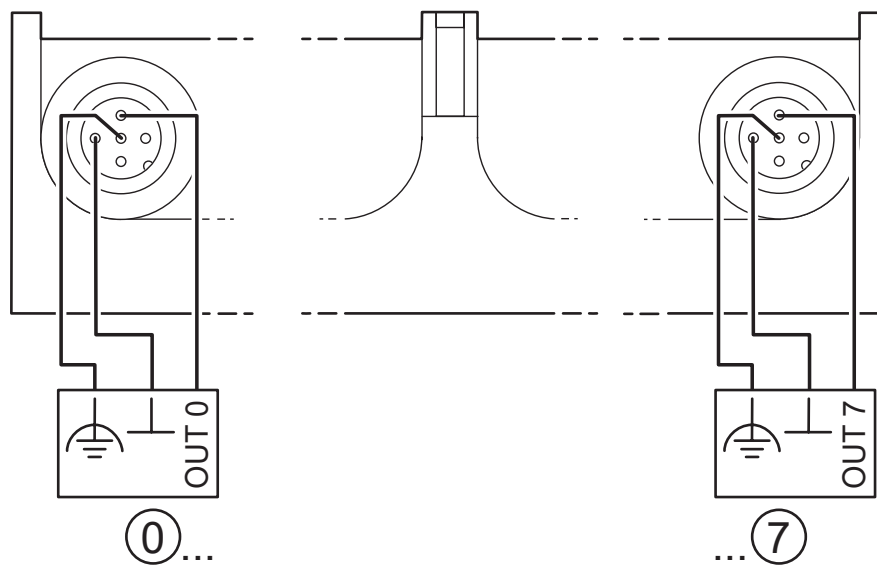
Ambient temperature (operation)	-20 °C ... 55 °C
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

Mounting

Mounting type	Panel mounting
---------------	----------------

Drawings

Connection diagram



Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com