

IBS RL 24 DIO 8/8/8 RS-LK - Distributed I/O device



2734044

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Digital I/O device for INTERBUS; fiber optic technology with 500 kbaud, eight inputs (24 V DC), eight relay outputs (12 V AC to 250 V AC; 2 A, maximum), sensor 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

- COMBICON connector for relay outputs
- M12 connector for digital inputs
- Rugged Line connector for INTERBUS with fiber optic and supply voltage
- Comprehensive diagnostic functions
- Rugged metal housing

Commercial data

Item number	2734044
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI517
GTIN	4046356041959
Weight per piece (including packing)	3,920 g
Weight per piece (excluding packing)	3,515 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Product properties

Type	Block design
No. of channels	16

System properties

Programming data

Length code (hex)	09
ID code (dec.)	3
Length code (dec)	9
Process data channel	8 bit
Input address area	1 Byte
Output address area	1 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	1 Byte

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 (plus sensor current)
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
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Input data

Digital:

Input name	Digital inputs
Number of inputs	8
Connection technology	2-, 3-, 4-conductor
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Typical input current per channel	3 mA
Delay at signal change from 0 to 1	1.5 ms
Delay at signal change from 1 to 0	3.5 ms
Protective circuit	Electronic short-circuit/overload protection

Output data

Digital:

Output name	Relay output
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Number of outputs	8
Output voltage	24 V
Maximum output current per group	2 A
Maximum output current per channel	0.5 A
Nominal output voltage	24 V
Output voltage when switched off	max. 0.5 V
Output current when switched off	0 A
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Maximum operating frequency with ohmic nominal load	max. 1 kHz
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	max. 0 mA

Interfaces

INTERBUS

Connection method	Optic fiber (polymer fiber 980/1000 μm)
Transmission speed	500 kbps
Transmission physics	FO

Dimensions

Width	185 mm
Height	193 mm
Depth	138 mm
Note on dimensions	with bus connection plugs and mounting panel

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Degree of protection	IP67, when screwed together
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)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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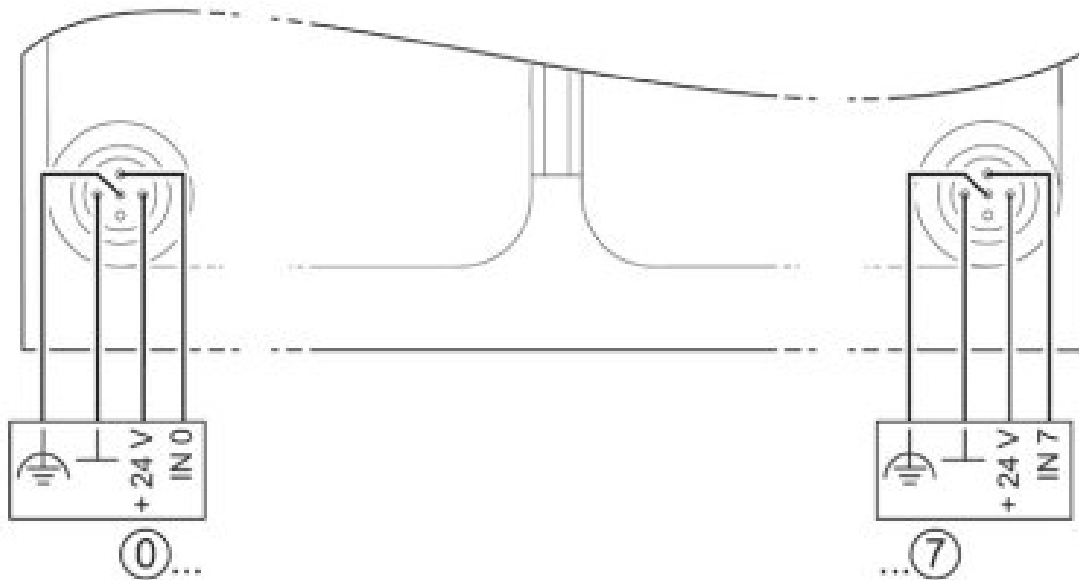
Mounting

Mounting type

Panel mounting

Drawings

Connection 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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