

# IBS RL 24 DIO 8/8/8-LK-2MBD - Distributed I/O device



2731571

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Digital I/O device for INTERBUS; fiber optic technology with 2 Mbaud, eight inputs (24 V DC), eight outputs (24 V DC, 0.5 A), sensor/actuator connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection



## Your advantages

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

## Commercial data

Item number	2731571
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRI513
Catalog page	Page 329 (C-8-2013)
GTIN	4017918185725
Weight per piece (including packing)	815.1 g
Weight per piece (excluding packing)	720 g
Customs tariff number	85176200
Country of origin	DE

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## 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	Optic fiber (polymer fiber 980/1000 µm)
Transmission speed	2 Mbps
Transmission physics	FO

### Input data

#### Digital

Input name	Digital inputs
Number of inputs	8
Connection technology	2-, 3-, 4-conductor
Input voltage range "0" signal	0 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	3 ms
Delay at signal change from 1 to 0	3 ms
Protective circuit	Electronic short-circuit/overload protection for each group

### 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
Maximum output current per group	2 A
Maximum output current per channel	500 mA
Nominal output voltage	24 V
Output voltage when switched off	max. 1 V
Output current when switched off	max. 100 µA
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. 300 Hz

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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. 25 mA
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
Maximum output current per group	2 A
Maximum output current per channel	500 mA
Nominal output voltage	24 V
Output voltage when switched off	max. 1 V
Output current when switched off	max. 100 µA
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. 300 Hz
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. 25 mA

## Product properties

Type	Block design
Product type	I/O component
Product family	Ruggedline
No. of channels	16

## 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 <sub>SS</sub> 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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## Connection data

Connection method	Fiber optic
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## Environmental and real-life conditions

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## Ambient conditions

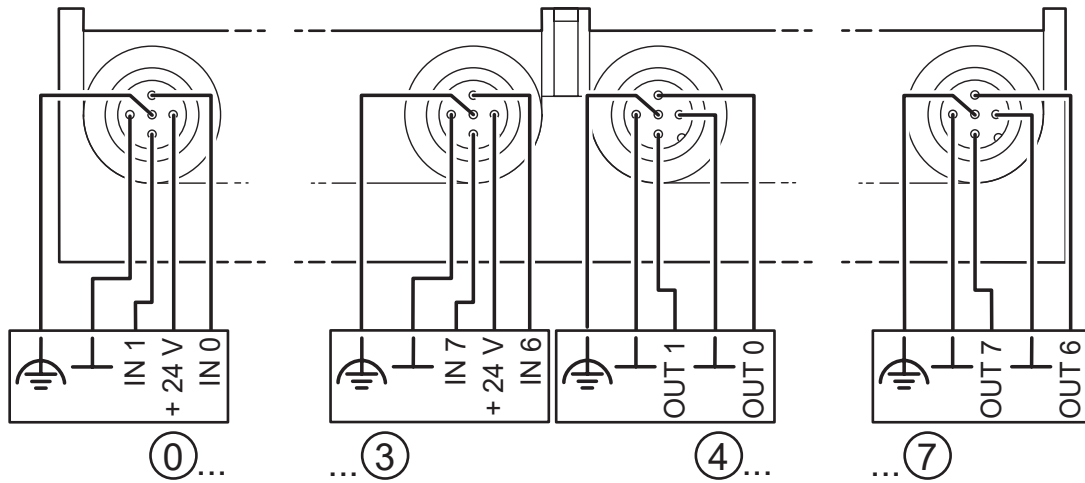
Ambient temperature (operation)	0 °C ... 55 °C
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

## Mounting

Mounting type	Wall mounting
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Drawings

Connection diagram





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## Approvals

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 <b>cUL Recognized</b> Approval ID: FILE E 140324				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Output	-	0.5 A	-	-
Input	24 V	0.003 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 140324				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Output	-	0.5 A	-	-
Input	24 V	0.003 A	-	-

<b>INTERBUS CLUB</b> Approval ID: 360/23.11.01				
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<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0

27242604

### ETIM

ETIM 8.0

EC001599

### UNSPSC

UNSPSC 21.0

32151600

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## Environmental product compliance

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

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PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)