

Distributed I/O device - IBS RL 24 DIO 8/5-RS-LK-2MBD - 2734905

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Digital I/O device for INTERBUS; fiber optic technology with 2 Mbaud, eight inputs (24 V DC), five relay outputs (12 V AC to 440 V AC; 2 A, maximum), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection

Product Features

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



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	4037.0 GRM
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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

Width	185 mm
Height	193 mm
Depth	138 mm
Note on dimensions	With bus connectors and mounting plate

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above mean sea level)
Degree of protection	IP65/IP67

General

Weight	3.5 kg
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Note	Seal unused slots/connections to ensure the degree of protection.
Test section	Between US1 and US2 500 V AC 50 Hz 1 min
	Between US1 and functional earth ground 500 V AC 50 Hz 1 min
	Between US2 and functional earth ground 500 V AC 50 Hz 1 min
	Between US1 and relay contacts 2.5 kV 50 Hz 1 min
	Between US2 and relay contacts 2.5 kV 50 Hz 1 min
	Between relay contacts and functional earth ground 2.5 kV 50 Hz 1 min

Interfaces

Fieldbus system	INTERBUS
Designation	INTERBUS
Connection method	Optic fiber (polymer fiber 980/1000 µm)
Transmission speed	2 MBit/s
Transmission physics	FO

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 32 V DC (including ripple)
Ripple	Max 3.6 V _{SS} within the permissible voltage range
Supply current	typ. 120 mA (plus sensor current)
Communications power U _L	24 V DC
Current consumption	80 mA (plus sensor current)

Digital inputs

Input name	Digital inputs
Description of the input	Voltage input 230 V AC to 400 V AC
Connection method	2, 3, 4-wire

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Digital inputs

Number of inputs	8
Protective circuit	Electronic short-circuit/overload protection
Input voltage	24 V
Input voltage range "0" signal	-30 V ... 5 V
Input voltage range "1" signal	15 V ... 32 V
Delay at signal change from 0 to 1	2.2 ms
Delay at signal change from 1 to 0	3.3 ms

Digital outputs

Output name	Relay output
Number of outputs	5
Maximum output current per channel	2 A

Classifications

eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242604
eCl@ss 6.0	27242605
eCl@ss 7.0	27242605
eCl@ss 8.0	27242604

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001601

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

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Approvals

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INTERBUS CLUB

Ex Approvals

Approvals submitted

Approval details

INTERBUS CLUB
