

IB IL 24/230 DOR4/W-PC-PAC - Relay module



2862181

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Inline, Relay terminal, Relay outputs: 4 (floating), Changeover contact, 24 V DC, 230 V AC, for switching inductive and capacitive loads, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The terminal is designed for use within an Inline station. It has four floating SPDT relay contacts, which are independent of one another. The terminal is suitable for switching inductive and capacitive loads.

Your advantages

- Safe isolation
- Floating connections for 4 actuators
- Nominal current at the output: 3 A

Commercial data

Item number	2862181
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI133
GTIN	4017918894672
Weight per piece (including packing)	214.3 g
Weight per piece (excluding packing)	138 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Note on application	
Note on application	Only for industrial use

Interfaces

Inline local bus	
Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module	
ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	41
Length code (dec)	65
Process data channel	4 bit
Input address area	0 bit
Output address area	4 bit
Register length	4 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Relay	
Number of outputs	4 (floating)
Connection method	Spring-cage connection

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Contact switching type	Changeover contact
Switching voltage	min. 5 V DC
	max. 250 V DC
	max. 253 V AC
Switching current	max. 3 A (At 30 V DC)
	max. 0.15 A (for 250 V DC)
Switching capacity	max. 750 VA (see to derating)
Limiting continuous current	3 A
Mechanical service life	2x 10 ⁷ cycles

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including Inline connectors and marking fields
Operating mode	Process data operation with 4 bits
Special properties	for switching inductive and capacitive loads

Electrical properties

Maximum power dissipation for nominal condition	2.85 W
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 187 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: Relay contact / Bus logics	4 kV, 50 Hz, 1 min
Test voltage: Contact/contact	1 kV, 50 Hz, 1 min
Test voltage: Contact / PE	1 kV, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

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Stripping length	8 mm
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Standards and regulations

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

Mounting type	DIN rail mounting
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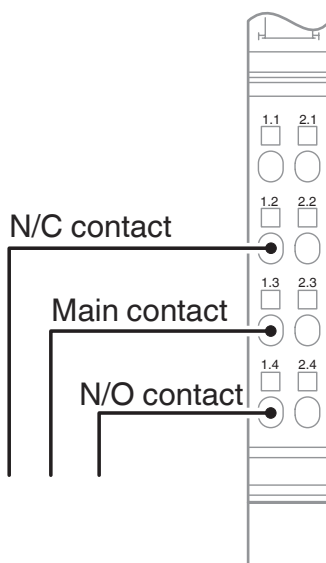
Drawings

Dimensional drawing



Dimensions (in mm)

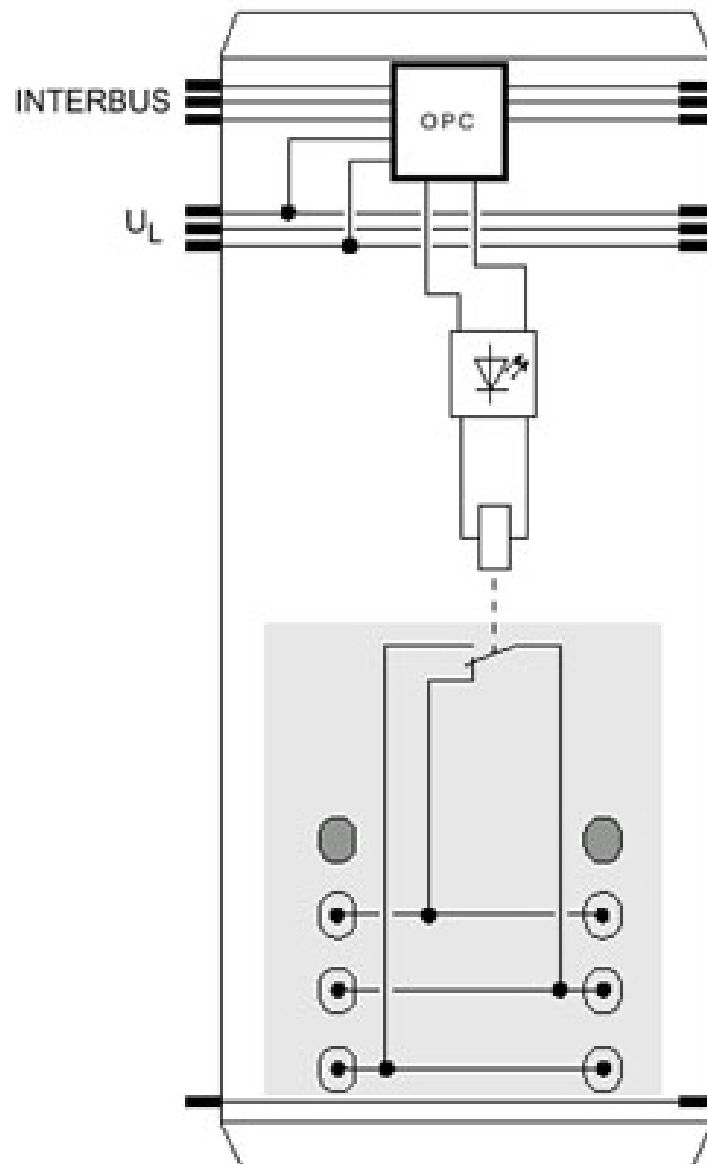
Connection diagram



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Block diagram



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Approvals

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cULus Recognized

Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 9.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: n/a)
SCIP	ab63e6bf-75ca-4ed6-b456-ff1edb630650

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