

# IB IL 24/230 DOR4/W-PC-PAC - Relay Module



2862181

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

## Your advantages

- Safe isolation
- Nominal current at the output: 3 A
- Total current of the terminal: 3 A
- Diagnostic and status indicators

## Commercial data

Item number	2862181
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI133
Catalog page	Page 133 (C-6-2019)
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

### Material specifications

Color	gray
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### 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 Byte
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
Contact switching type	Changeover contact

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Switching voltage	min. 5 V DC
	max. 250 V DC

## Product properties

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
No. of channels	4

## Electrical properties

### 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

### Inline connector

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

## 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)

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Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (slight temporary condensation may sometimes appear on the housing)

## 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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