

# IB IL 24/230 DOR4/HC-PAC - Relay Module



2897716

<https://www.phoenixcontact.com/us/products/2897716>

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Inline, Relay terminal, Relay outputs: 4 (floating), N/O contact, 24 V DC, 230 V AC, high inrush current, 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 relay contacts. The terminal can be used in the PELV area and in the AC area. Observe the applicable regulations and safety notes when using the terminal in the AC area. Features - Safe isolation in accordance with EN 50178 - Floating connection for four actuators - Nominal current at the output: 10 A - High inrush current

## Your advantages

- Floating connections for 4 actuators
- Nominal current 10 A
- Safe isolation
- Low power consumption through use of bistable relays
- Diagnostic and status indicators

## Commercial data

Item number	2897716
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR18
Product key	DRHABA
Catalog page	Page 133 (C-6-2019)
GTIN	4046356133081
Weight per piece (including packing)	254.1 g
Weight per piece (excluding packing)	229 g
Customs tariff number	85389099
Country of origin	DE

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## Technical data

### Dimensions

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

### Interfaces

#### Inline local bus

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

### System properties

#### Module

ID code (dec.)	191
ID code (hex)	BF
Length code (hex)	09
Length code (dec)	9
Process data channel	8 bit
Input address area	1 Byte
Output address area	8 bit
Register length	8 bit
Required parameter data	5 Byte
Required configuration data	5 Byte

### Output data

#### Relay

Number of outputs	4 (floating)
Connection method	Spring-cage connection
Contact switching type	N/O contact
Switching voltage	max. 250 V DC
	min. 5 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

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## Electrical properties

### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 34 mA

### Potentials: Supply of analog modules ( $U_{ANA}$ )

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	10 mA (maximum 55 mA during the switching process (duration of approximately 25 ms per switched relay))

### 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)	80 kPa ... 106 kPa (up to 2000 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)	0 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	0 % ... 85 % (slight temporary condensation may sometimes appear on the housing)

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## Standards and regulations

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

Mounting type	DIN rail mounting
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## Classifications

### ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

### ETIM

ETIM 9.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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