

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



2861878

<https://www.phoenixcontact.com/us/products/2861878>

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Inline, Relay terminal, Relay outputs: 4 (floating), Changeover contact, 24 V DC, 230 V AC, for switching ohmic 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. The terminal has four floating relay changeover 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: 3 A - Total current of the terminal: 4x 3 A = 12 A - Diagnostic and status indicators

Your advantages

- Safe isolation
- Floating connections for 4 actuators
- Nominal current at the output: 3 A
- Total current of the terminal: 3 A
- Diagnostic and status indicators

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2861878 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR01 |
| Product key | DRI133 |
| GTIN | 4017918894573 |
| Weight per piece (including packing) | 216.4 g |
| Weight per piece (excluding packing) | 138 g |
| Customs tariff number | 85389099 |
| 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 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 |

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| | |
|------------------------|--------------------|
| Contact switching type | Changeover contact |
| Switching voltage | min. 5 V DC |
| | max. 250 V DC |

Product properties

| | |
|-----------------------|--|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |
| Installation location | Control cabinet |
| Scope of supply | including Inline connectors and marking fields |
| No. of channels | 4 |
| Special properties | for switching ohmic loads |

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 2.85 W |
|---|--------|

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 |
|-----------------|------------------|

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 |
| 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) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 0 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.) |

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| | |
|--|--|
| Permissible humidity (storage/transport) | 0 % ... 85 % (slight temporary condensation may sometimes appear on the housing) |
|--|--|

Standards and regulations

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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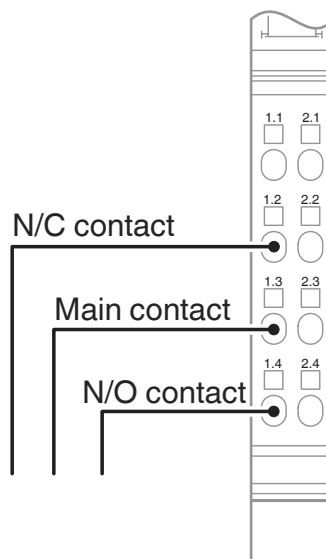
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Drawings

Dimensional drawing



Connection diagram



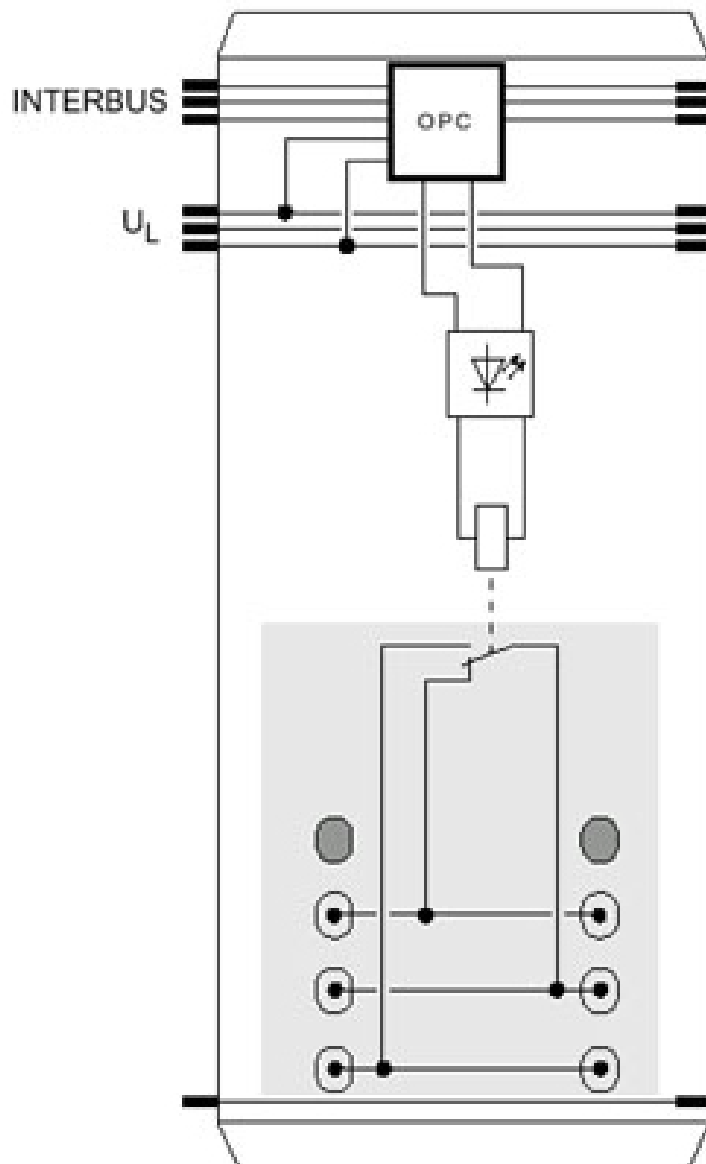
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Block diagram



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Approvals

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DNV GL

Approval ID: TAA00000BN



LR

Approval ID: LR23398855TA



BV

Approval ID: 21725/C1 BV

BSH

Approval ID: 658a



RINA

Approval ID: ELE121121XG

ABS

Approval ID: 22-2226444-PDA



cULus Recognized

Approval ID: E140324

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242604 |
| ECLASS-15.0 | 27242604 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001599 |
|-----------|----------|

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-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | aa33a80b-10d2-497c-9332-4cda31e84913 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 2.626 kg CO2e |
|---------|---------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com