# IB IL 24 DO 2-2A-PAC - Digital module

2861263

https://www.phoenixcontact.com/us/products/2861263

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Inline, Digital output terminal, Digital outputs: 2, 24 V DC, 2 A, connection technology: 4-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

## Product description

The terminal is designed for use within an Inline station. It is used to output digital signals.

## Your advantages

- 2 digital outputs
- Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current per output: 2 A
- Total current of the terminal: 4 A
- Short-circuit and overload-protected outputs
- Approved for use in a safety-related segment circuit

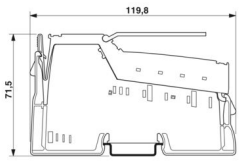
## Commercial data

| | |
|---|---|
| Item number | 2861263 |
| Packing unit | 1 pc |

| | |
|---|---|
| Minimum order quantity | 1 pc |
| Sales key | DR01 |
| Product key | DRI132 |
| GTIN | 4017918894207 |
| Weight per piece (including packing) | 77.1 g |
| Weight per piece (excluding packing) | 82.1 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

## Technical data

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 12.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

### Notes

| | |
|---|---|
| Note on application | Only for industrial use |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

Utilization restriction

| | |
|---|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |

### Mounting

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

### Material specifications

| | |
|---|---|
| Color (Housing) | green (RAL 6021) |

### Interfaces

Inline local bus

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

### System properties

Programming data

| | |
|---|---|
| Length code (hex) | C2 |
| ID code (dec.) | 189 |
| Length code (dec) | 194 |
| Process data channel | 2 bit |
| Input address area | 0 bit |

| | |
|---|---|
| Output address area | 2 bit |
| Parameter channel (PCP) | 0 bit |
| Register length (bus) | 2 bit |

Fieldbus data telegram (PROFIBUS)

| | |
|---|---|
| Required parameter data | 3 Byte |
| Required configuration data | 4 Byte |

## Output data

Digital:

| | |
|---|---|
| Output name | Digital outputs |
| Design of digital output | Semiconductor |
| Connection method | Spring-cage connection |
| Connection technology | 4-conductor |
| Number of outputs | 2 |
| Protective circuit | Overload protection, short-circuit protection; electronic |
| Output voltage | 24 V DC ($U_S$ - 1 V) |
| Limitation of the voltage induced on circuit interruption | approx. -0.7 V |
| Output current | max. 2 A (per channel) |
| | max. 4 A (per device) |
| Maximum output current per channel | 2 A |
| Maximum output current per module | 4 A |
| Nominal output voltage | 24 V DC |
| Nominal load, inductive | 48 VA (1,2 H, 12 Ω) |
| Nominal load, lamp | 48 W |
| Nominal load, ohmic | 48 W (12 Ω) |
| Signal delay when switching off an inductive nominal load | approx. 250 ms (1,2 H, 12 Ω) |
| Signal delay when switching off a lamp nominal load | approx. 200 µs |
| Signal delay when switching off an ohmic nominal load | approx. 200 µs |
| Signal delay when switching on an inductive nominal load | approx. 250 ms (1,2 H, 12 Ω) |
| Signal delay when switching on a lamp nominal load | typ. 200 ms (for switching frequencies up to 8 Hz, above this frequency, the lamp load behaves like an ohmic load) |
| Signal delay when switching on an ohmic nominal load | approx. 200 µs |
| Maximum operating frequency with inductive nominal load | max. 0.5 Hz (1,2 H, 12 Ω) |
| Maximum operating frequency with lamp nominal load | max. 300 Hz (this switching frequency is limited by the number of bus devices, the structure of the bus, the software used and the control or computer system used) |
| Maximum operating frequency with ohmic nominal load | max. 300 Hz (this switching frequency is limited by the number of bus devices, the structure of the bus, the software used and the control or computer system used) |
| Behavior with overload | Auto restart |
| Behavior with inductive overload | Output can be destroyed |
| Behavior at voltage switch-off | The output follows the power supply without delay |
| Output data validity | typ. 5 ms (after switching the 24 V voltage supply (power up)) |
| Reverse voltage resistance to short pulses | Reverse voltage proof |

| | |
|---|---|
| Resistance to permanent reverse voltage | max. 2 A DC |

## Product properties

| | |
|---|---|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |
| Scope of supply | including Inline connector and labeling field |
| No. of channels | 2 |
| Operating mode | Process data mode with 2 bits |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |
| Diagnostics messages | Short-circuit or overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.45 W |

Potentials: Communications power ($U_L$)

| | |
|---|---|
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current draw | max. 35 mA |

Potentials: Segment circuit supply ($U_S$)

| | |
|---|---|
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 4 A |

Electrical isolation/isolation of the voltage ranges

| | |
|---|---|
| Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 7.5 V supply (bus logic)/functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply (I/O) / functional ground | 500 V AC, 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 mm² ... 1.5 mm² |
| Conductor cross-section, flexible | 0.08 mm² ... 1.5 mm² |
| 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) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

### Mechanical test

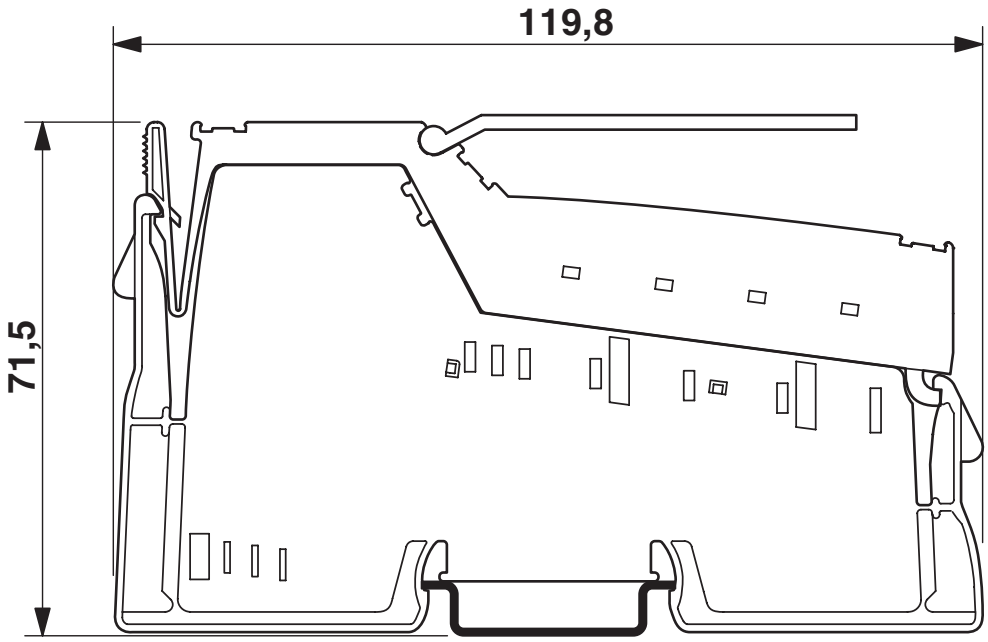
| | |
|---|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5g |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 25g |

## Standards and regulations

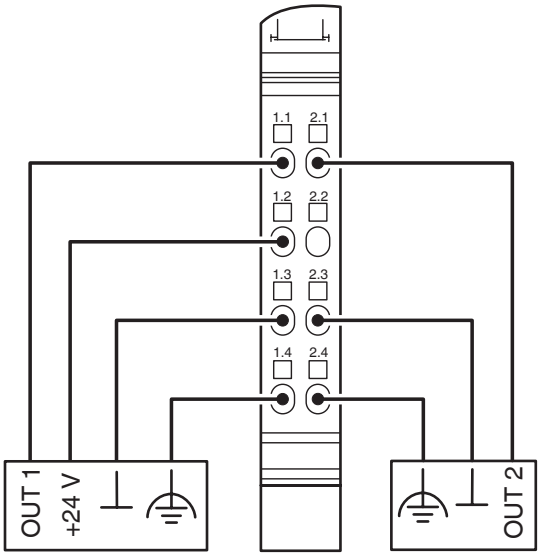
| | |
|---|---|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

## Drawings

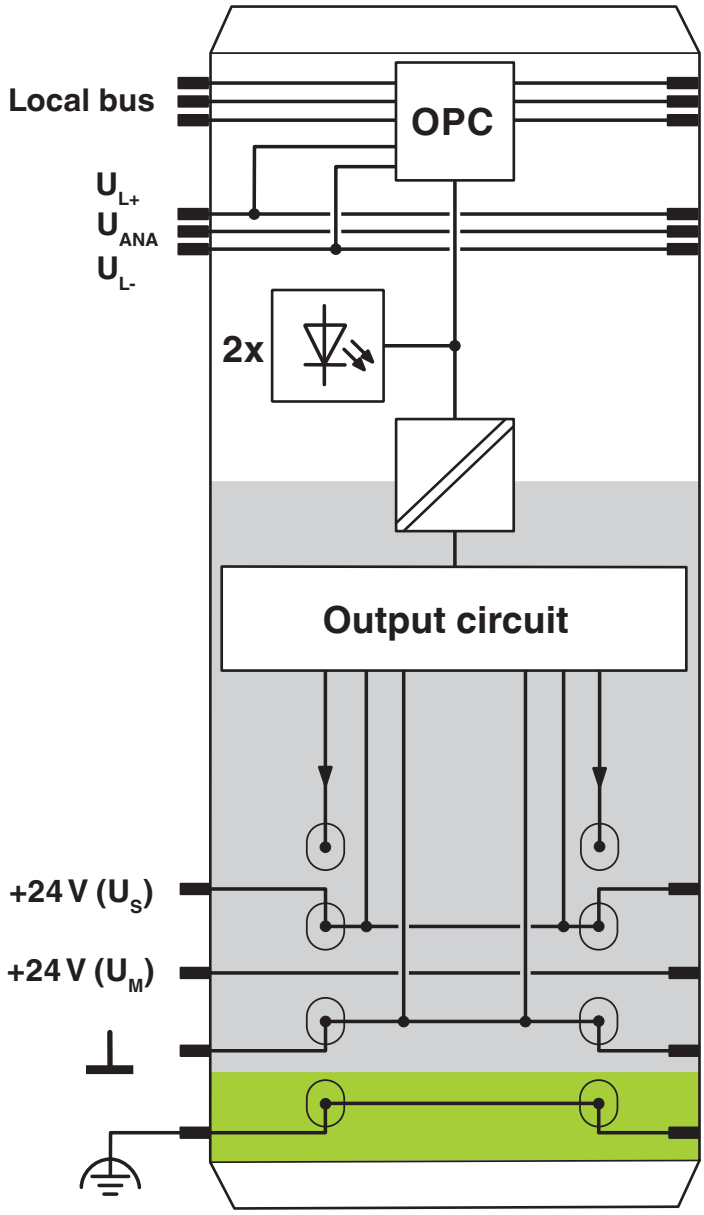
Dimensional drawing




Connection diagram



Block diagram




Internal wiring of the terminal points

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2861263

**cULus Recognized**
Approval ID: E140324

**Functional Safety**
Approval ID: 968/EL 711.08/23

**cULus Listed**
Approval ID: E199827

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 32151600 |

## 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 | a01bf0bf-4ed6-4590-80d4-55b9154290bf |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 2.361 kg CO2e |


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