

# IB IL 24 DI 2-NPN-PAC - Digital module

2861483

<https://www.phoenixcontact.com/us/products/2861483>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline, Digital input terminal, Digital inputs: 2 (NPN), 24 V DC, connection technology: 4-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

## Product description

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

## Your advantages

- Connections for 2 digital sensors, npn-wired
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Maximum permissible load current per sensor: 250 mA
- Diagnostic and status indicators

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2861483       |
| Packing unit                         | 1 pc          |
| Sales key                            | DR01          |
| Product key                          | DRI131        |
| GTIN                                 | 4017918894405 |
| Weight per piece (including packing) | 80.3 g        |
| Weight per piece (excluding packing) | 59.79 g       |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

# IB IL 24 DI 2-NPN-PAC - Digital module

2861483

<https://www.phoenixcontact.com/us/products/2861483>

## Technical data

### Dimensions

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

### Notes

#### Utilization restriction

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

### 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 (LocalbusSlave)

|                         |        |
|-------------------------|--------|
| Length code (hex)       | C2     |
| ID code (dec.)          | 190    |
| Length code (dec)       | 194    |
| Process data channel    | 2 bit  |
| Input address area      | 2 bit  |
| Output address area     | 0 Byte |
| Parameter channel (PCP) | 0 Byte |
| Register length (bus)   | 2 bit  |

#### Fieldbus data telegram

|                             |        |
|-----------------------------|--------|
| Required parameter data     | 1 Byte |
| Required configuration data | 4 Byte |

# IB IL 24 DI 2-NPN-PAC - Digital module



2861483

<https://www.phoenixcontact.com/us/products/2861483>

## Input data

Digital:

|                                |                                       |
|--------------------------------|---------------------------------------|
| Input name                     | Digital inputs                        |
| Description of the input       | IEC 61131-2 type 1                    |
| Number of inputs               | 2 (NPN)                               |
| Connection method              | Spring-cage connection                |
| Connection technology          | 4-conductor                           |
| Input voltage                  | 24 V DC                               |
| Input voltage range "0" signal | -3 V DC ... 5 V DC                    |
| Input voltage range "1" signal | 15 V DC ... 30 V DC                   |
| Nominal input voltage $U_{IN}$ | 24 V DC                               |
| Typical response time          | < 1 ms                                |
| Protective circuit             | Short-circuit and overload protection |

## 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   |

## Electrical properties

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. 0.5 A   |

Electrical isolation/isolation of the voltage ranges

|   |                        |
|---|------------------------|
| Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)               | 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

# IB IL 24 DI 2-NPN-PAC - Digital module



2861483

<https://www.phoenixcontact.com/us/products/2861483>

|                                   |  |
|-----------------------------------|--|
| 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) |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                  |
| Permissible humidity (operation)         | 10 % ... 95 % (according to DIN EN 61131-2)       |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2)       |

## Standards and regulations

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

## Mounting

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

# IB IL 24 DI 2-NPN-PAC - Digital module



2861483

<https://www.phoenixcontact.com/us/products/2861483>

## Drawings

Dimensional drawing



Connection diagram



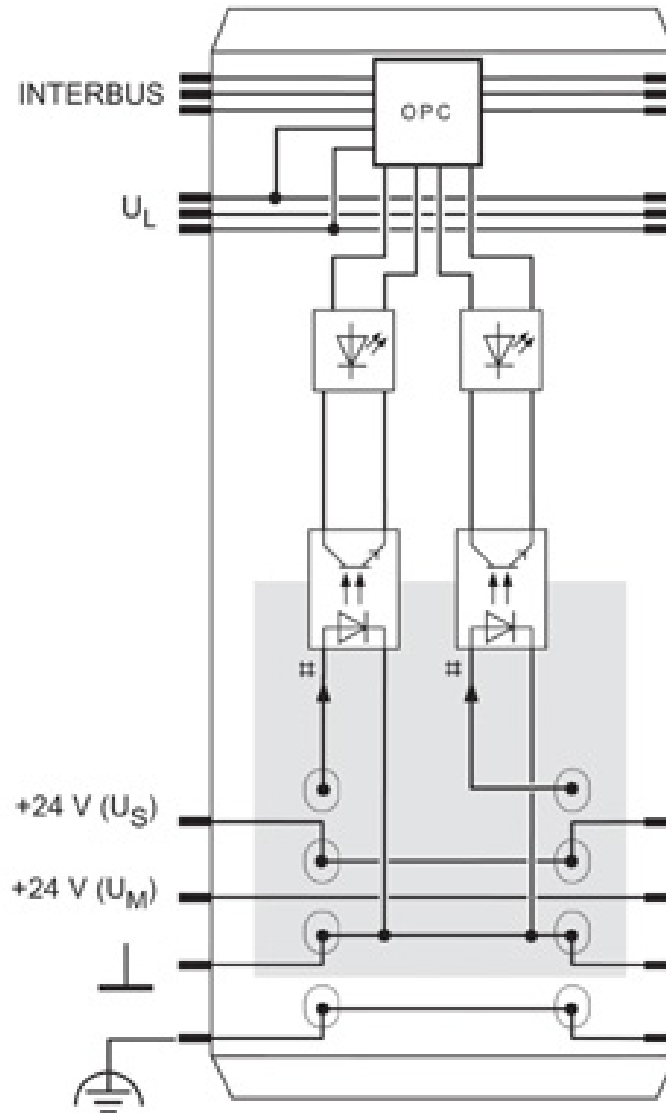
# IB IL 24 DI 2-NPN-PAC - Digital module

2861483

<https://www.phoenixcontact.com/us/products/2861483>



Block diagram



# IB IL 24 DI 2-NPN-PAC - Digital module



2861483

<https://www.phoenixcontact.com/us/products/2861483>

## Classifications

### ECLASS

ECLASS-13.0

27242604

### ETIM

ETIM 9.0

EC001599

### UNSPSC

UNSPSC 21.0

32151600

2861483

<https://www.phoenixcontact.com/us/products/2861483>

## 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: 7439-92-1)                 |
| SCIP                                | 5784ad66-259f-41fc-a4ab-37924e0c55eb |

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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