

IB IL 24 DI 2-PAC - Digital module



2861221

<https://www.phoenixcontact.com/in/products/2861221>

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Inline, Digital input terminal, Digital inputs: 2, 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
- 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 | 2861221 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | DRI |
| Product Key | DRI131 |
| Catalog Page | Page 122 (C-6-2019) |
| GTIN | 4017918894153 |
| Weight per Piece (including packing) | 81.8 g |
| Weight per Piece (excluding packing) | 53 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

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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

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

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

Interfaces

Inline local bus

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

System properties

Module

| | |
|-----------------------------|--------|
| ID code (dec.) | 190 |
| ID code (hex) | BE |
| Length code (hex) | C2 |
| Length code (dec) | 194 |
| Process data channel | 2 bit |
| Input address area | 2 bit |
| Output address area | 0 Byte |
| Register length | 2 bit |
| Required parameter data | 1 Byte |
| Required configuration data | 4 Byte |

Input data

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Digital

| | |
|-----------------------------------|---------------------------------------|
| Input name | Digital inputs |
| Description of the input | EN 61131-2 type 1 |
| Number of inputs | 2 |
| 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 |
| Nominal input current at U_{IN} | min. 5 mA (at nominal voltage) |
| Typical response time | < 1 ms |
| Protective circuit | Short-circuit and overload protection |

Product properties

| | |
|-------------------|---|
| Type | modular |
| Product type | I/O component |
| Product family | Inline |
| Scope of delivery | including Inline connector and labeling field |
| No. of channels | 2 |

Electrical properties

| | |
|-----------------|---|
| No. of channels | 2 |
|-----------------|---|

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 |
| | 0 A |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Conductor connection

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

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) | 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 |
|---------------|-------------------|

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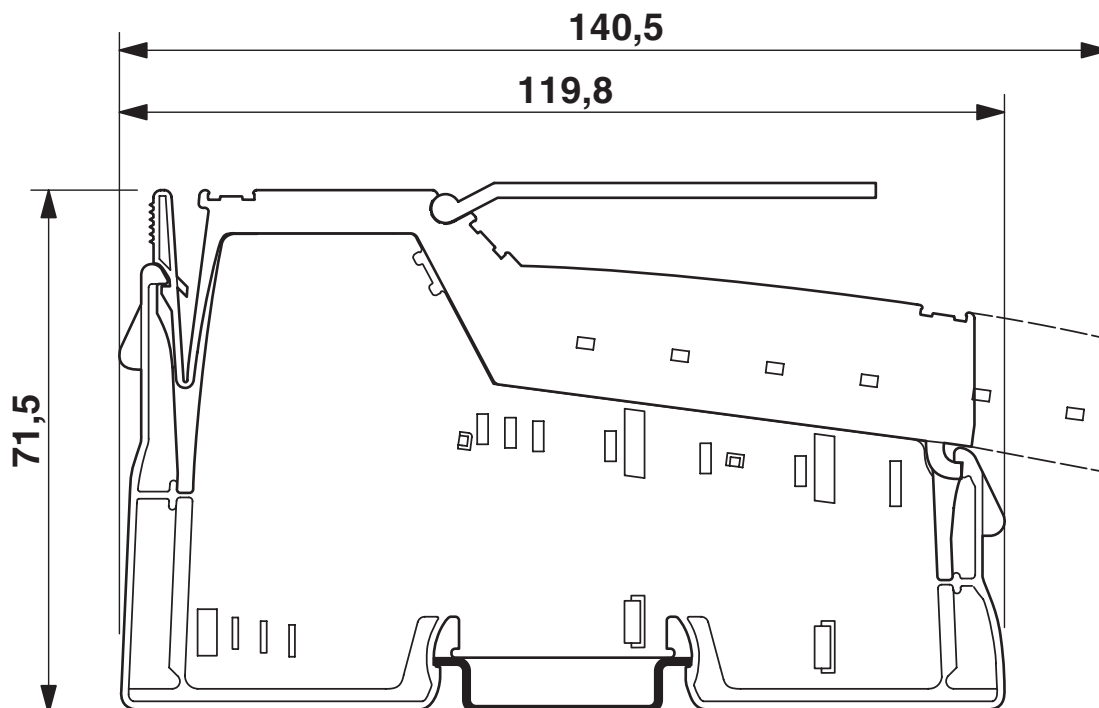


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Drawings

Dimensional drawing



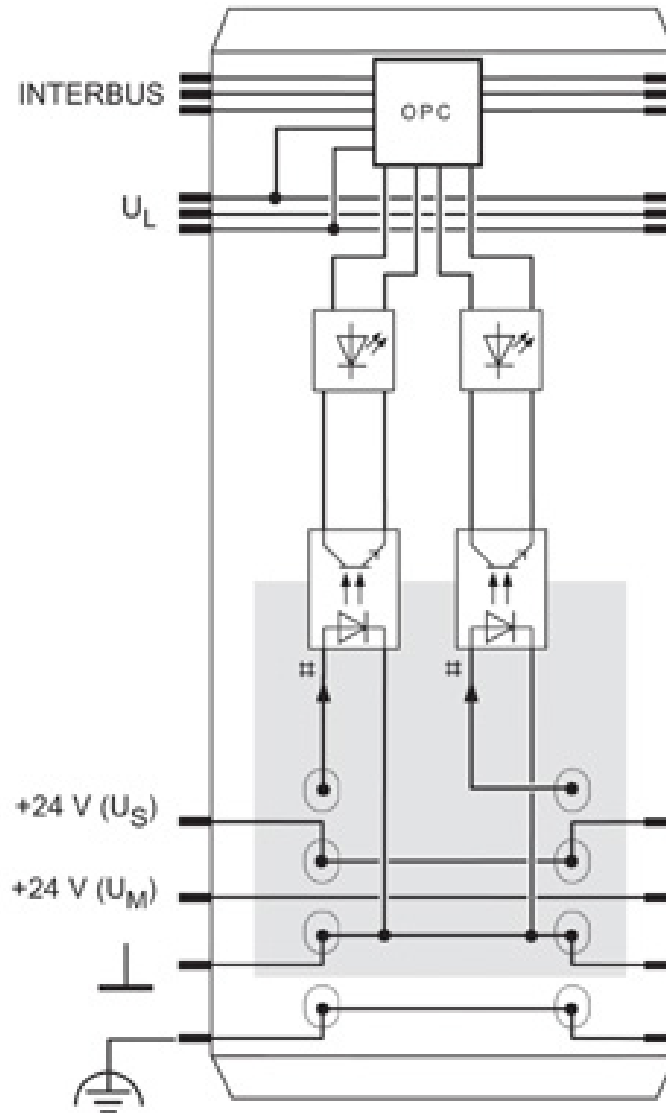
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Block diagram



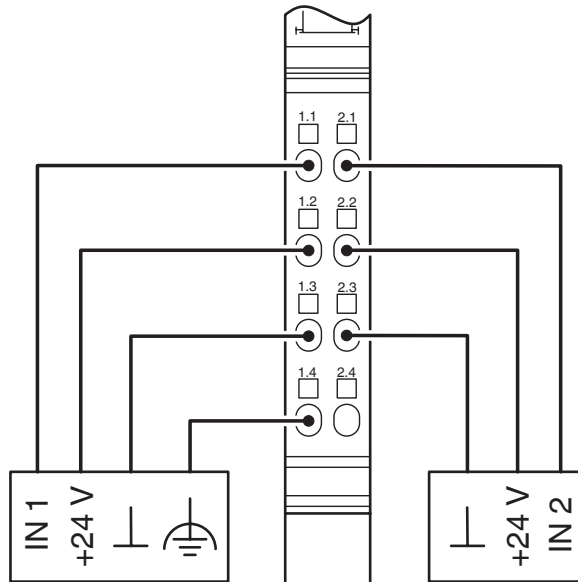
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Connection diagram



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Approvals



UL Recognized

Approval ID: FILE E 140324



EAC

Approval ID: TR TS_D_01921-19



DNV GL

Approval ID: TAA00000BN



LR

Approval ID: LR22191720TA



BV

Approval ID: 20977/C0 BV



RINA

Approval ID: ELE121121XG



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001599 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

IB IL SCN-8-CP - Inline connector

2727608

<https://www.phoenixcontact.com/in/products/2727608>

Inline connector, colored



IB IL SCN-8 - Inline connector

2726337

<https://www.phoenixcontact.com/in/products/2726337>

Connector, for digital 1, 2 or 8-channel Inline terminals



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IB IL FIELD 2 - Labeling field

2727501

<https://www.phoenixcontact.com/in/products/2727501>

Labeling field, width: 12.2 mm



ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/in/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:
Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of
individual labels: 72



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