

Inline terminal - IB IL 24 DI 8-PAC - 2861247

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Inline, Digital input terminal, Digital inputs: 8 , 24 V DC, connection method: 4-wire, 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 is used to acquire digital signals.

Your advantages

- 8 digital inputs
- Connection of sensors in 2, 3, and 4-wire technology
- Maximum permissible load current per sensor: 250 mA
- Maximum permissible load current from the terminal: 2 A



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 894184 |
| GTIN | 4017918894184 |
| Weight per Piece (excluding packing) | 201.800 g |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

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Technical data

Dimensions

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

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| 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) |
| 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) |
| Degree of protection | IP20 |

General

| | |
|-------------------------------|--|
| Mounting type | DIN rail |
| Color | green |
| Net weight | 118 g |
| Note on weight specifications | without plug |
| Diagnostics messages | Short-circuit / overload of the digital outputs Error message in diagnostics code (bus) and display by means of the LED on the motor |

Interfaces

| | |
|--------------------|--------------------|
| Designation | Inline local bus |
| No. of channels | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |

Inline potentials

| | |
|----------------------|--|
| Designation | Communications power (U_L) |
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current consumption | max. 50 mA |
| Designation | 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 consumption | max. 2 A |
| | 0 A |

Digital inputs

| | |
|------------|----------------|
| Input name | Digital inputs |
|------------|----------------|

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Digital inputs

| | |
|-----------------------------------|---------------------------------------|
| Description of the input | EN 61131-2 type 1 |
| Connection method | Spring-cage connection |
| Connection technology | 4-wire |
| Number of inputs | 8 |
| Typical response time | < 1 ms |
| Protective circuit | Short-circuit and overload protection |
| Nominal input voltage U_{IN} | 24 V DC |
| Nominal input current at U_{IN} | min. 5 mA (at nominal voltage) |
| 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 |

Electrical isolation

| | |
|--------------|---|
| Test section | 5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
| | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
| | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min. |
| | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min. |

Standards and Regulations

| | |
|----------------------------------|---------------------------------------|
| Connection in acc. with standard | CUL |
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

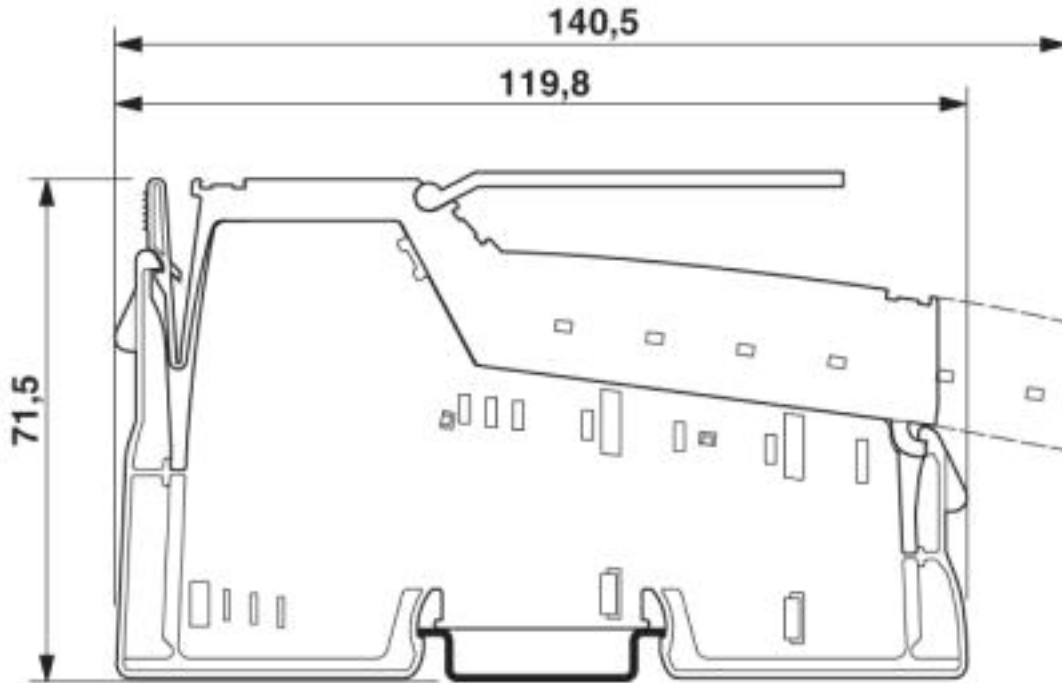
Environmental Product Compliance

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

Drawings

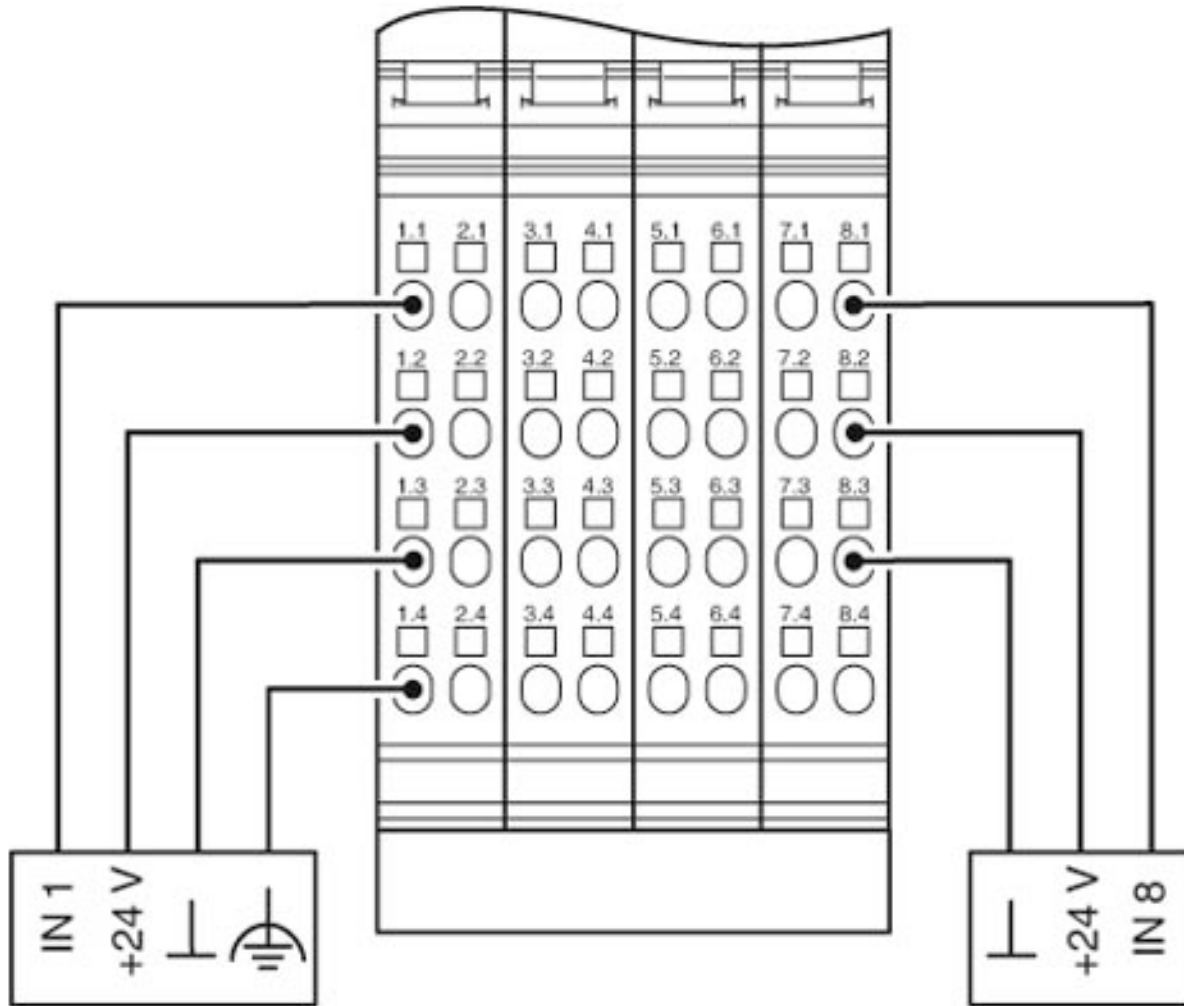
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Dimensional drawing



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Connection diagram



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250300 |
| eCl@ss 4.1 | 27250300 |
| eCl@ss 5.0 | 27250300 |
| eCl@ss 5.1 | 27242600 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242604 |
| eCl@ss 8.0 | 27242604 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27242604 |
|------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001430 |
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |
| ETIM 6.0 | EC001599 |
| ETIM 7.0 | EC001599 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |

Approvals

Approvals

Approvals

DNV GL / BV / LR / ABS / BSH / RINA / UL Recognized / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|--------|--|---|------------|
| DNV GL | | https://approvalfinder.dnvgl.com/ | TAA00000BN |
|--------|--|---|------------|

| | | | |
|----|--|---|-------------|
| BV | | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 21595/B0 BV |
|----|--|---|-------------|

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Approvals

| | | | |
|---------------|--|---|------------------|
| LR | | http://www.lr.org/en | 08/20033 |
| ABS | | http://www.eagle.org/eagleExternalPortalWEB/ | 17-HG1621871-PDA |
| BSH | | http://www.bsh.de/de/index.jsp | Anwenderhinweis |
| RINA | | http://www.rina.org/en | ELE183315XG |
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
| EAC | | | EAC-Zulassung |

Accessories

Accessories

Connector set

Connector set - IB IL DI/DO 8-PLSET/CP - 2860963



Connector set, for IB IL DI/DO 8, copper, with color print.

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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Accessories

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Plug

Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

Terminal marking

Insert strip - ESL 62X10 - 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

Insert strip - ESL 62X46 - 0809502



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 46 mm, Number of individual labels: 120