

## Inline ME terminal - IB IL 24 DI 4-ME - 2863928

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Inline, Digital input terminal, Digital inputs: 4 , 24 V DC, connection method: 3-wire, 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

- ✓ 4 digital inputs
- ✓ Connection of sensors in 2 and 3-wire technology
- ✓ Maximum permissible load current per sensor: 250 mA
- ✓ Maximum permissible load current from the terminal: 1 A
- ✓ Diagnostic and status indicators



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| Minimum order quantity               | 4 pc                                                                                                    |
| GTIN                                 | <br>4 017918 962678 |
| GTIN                                 | 4017918962678                                                                                           |
| Weight per Piece (excluding packing) | 68.800 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 |
|-------------------------|---------------------------------------------------------------------------|

# Inline ME terminal - IB IL 24 DI 4-ME - 2863928

## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 12.2 mm  |
| Height | 119.8 mm |
| Depth  | 71.5 mm  |

### 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                    | 59 g                               |
| Note on weight specifications | with connector                     |
| Operating mode                | Process data operation with 4 bits |

### Interfaces

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

### Inline potentials

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Designation          | Communications power ( $U_L$ )                                     |
| Supply voltage       | 7.5 V DC (via voltage jumper)                                      |
| Current consumption  | max. 40 mA                                                         |
| Power consumption    | max. 0.3 W (at $U_L$ )                                             |
| 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. 1 A                                                           |
|                      | 0 A                                                                |

### Digital inputs

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

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### Technical data

#### Digital inputs

|                                   |                                |
|-----------------------------------|--------------------------------|
| Description of the input          | EN 61131-2 type 1              |
| Connection method                 | Spring-cage connection         |
| Connection technology             | 3-wire                         |
| Number of inputs                  | 4                              |
| Typical response time             | < 1 ms                         |
| Nominal input voltage $U_{IN}$    | 24 V DC                        |
| Nominal input current at $U_{IN}$ | min. 3 mA (at nominal voltage) |
| Input voltage                     | 24 V DC                        |
| Input voltage range "0" signal    | -3 V DC ... 5 V                |
| Input voltage range "1" signal    | 15 V DC ... 30 V DC            |
| Input voltage range               | -30 V DC ... 30 V DC           |

#### Electrical isolation

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

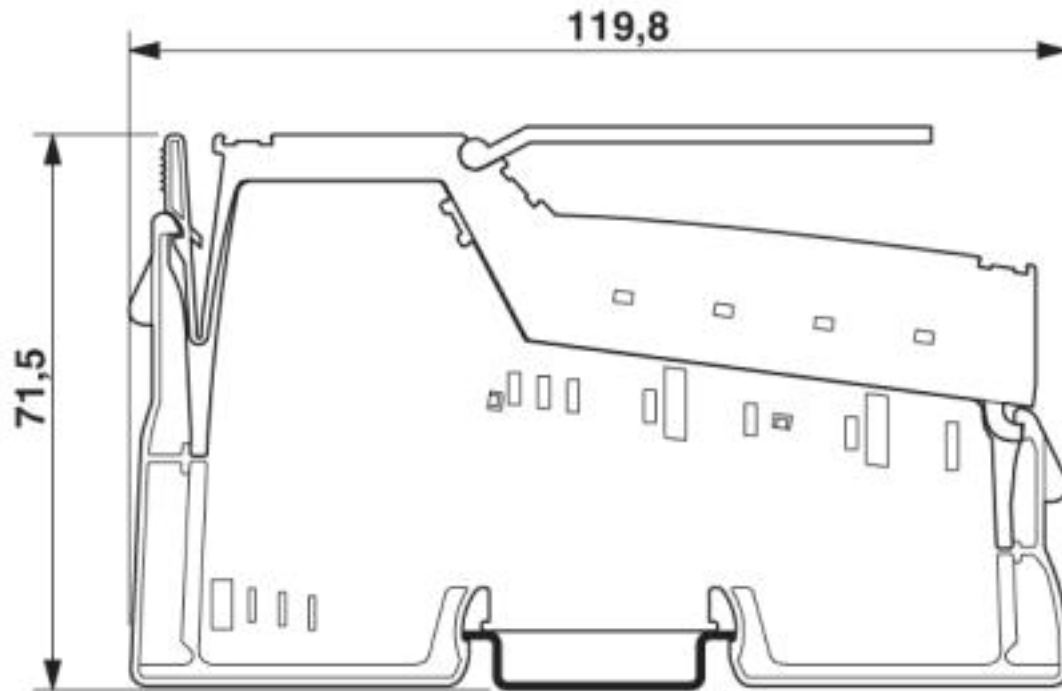
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

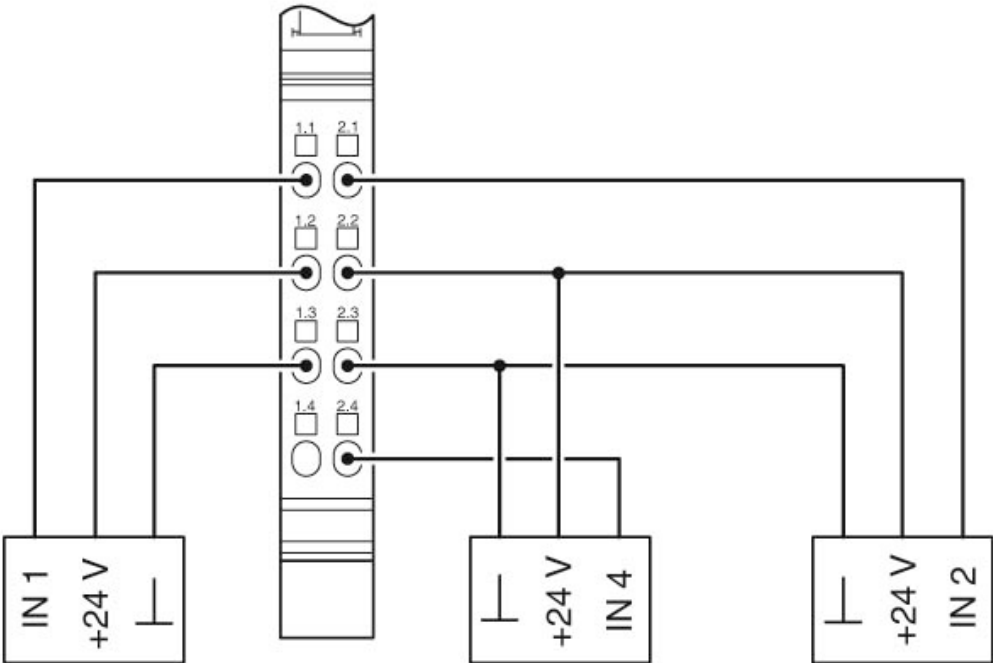
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Dimensional drawing



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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 |

## Inline ME terminal - IB IL 24 DI 4-ME - 2863928

### 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 |
| UNSPSC 18.0   | 32151602 |
| UNSPSC 19.0   | 32151602 |
| UNSPSC 20.0   | 32151602 |
| UNSPSC 21.0   | 32151602 |

### Approvals

#### Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

#### Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

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### Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

EAC



EAC-Zulassung

cULus Recognized



### Accessories

#### Accessories

#### I/O component

#### Inline terminal - IB IL PD 24V-PAC - 2862987



Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

#### Inline terminal - IB IL PD GND-PAC - 2862990



Inline terminal for power distribution (GND), complete with accessories, (connector and labeling field) connections for GND

### Labeling panel

#### Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



## Inline ME terminal - IB IL 24 DI 4-ME - 2863928

### Accessories

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#### Plug

Inline connector - IB IL SCN-8 - 2726337

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



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#### 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

