

## Inline ME terminal - IB IL AO 2/U/BP-ME - 2863957

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Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, -10 V ... 10 V, connection method: 2-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 output analog voltage signals.

### Your advantages

- ✓ Connection of sensors in 2 or 3-wire technology



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 962647 |
| GTIN         | 4017918962647                                                                                           |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|                         | Use in potentially explosive areas is not permitted in China.             |

#### 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) |

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## Technical data

### Ambient conditions

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| 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    | 48 g     |

### Interfaces

|                      |                    |
|----------------------|--------------------|
| Designation          | Inline local bus   |
| Number               | 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  | typ. 33 mA                                                         |
|                      | max. 40 mA                                                         |
| Designation          | Supply of analog modules ( $U_{ANA}$ )                             |
| 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  | typ. 18 mA (No-load)                                               |
|                      | max. 28 mA (No-load)                                               |
|                      | typ. 25 mA (Full load ( $R_L = 2 \text{ k}\Omega$ ))               |
|                      | max. 35 mA (Full load ( $R_L = 2 \text{ k}\Omega$ ))               |

### Analog outputs

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Number of outputs               | 2                                         |
| Connection technology           | 2-conductor                               |
| Output name                     | Analog outputs                            |
| Data formats                    | IL, IB ST                                 |
| Representation of output values | 13 bits (12 bits + sign)                  |
| Process data update             | < 1 ms                                    |
| Voltage output signal           | 0 V ... 10 V                              |
|                                 | -10 V ... 10 V                            |
| Load/output load voltage output | > 2 k $\Omega$ 0.02 %                     |
| Precision                       | typ. 0.02 % (of output range final value) |

### Electrical isolation

|              |                                                                             |
|--------------|-----------------------------------------------------------------------------|
| Test section | 7.5 V supply (bus logic), 24 V supply $U_{ANA}$ / I/O 500 V AC 50 Hz 1 min. |
|--------------|-----------------------------------------------------------------------------|

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### Technical data

#### Electrical isolation

|  |                                                                                           |
|--|-------------------------------------------------------------------------------------------|
|  | 7.5 V supply (bus logic), 24 V supply $U_{ANA}$ / functional ground 500 V AC 50 Hz 1 min. |
|  | 24 V supply (I/O)/functional 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) |

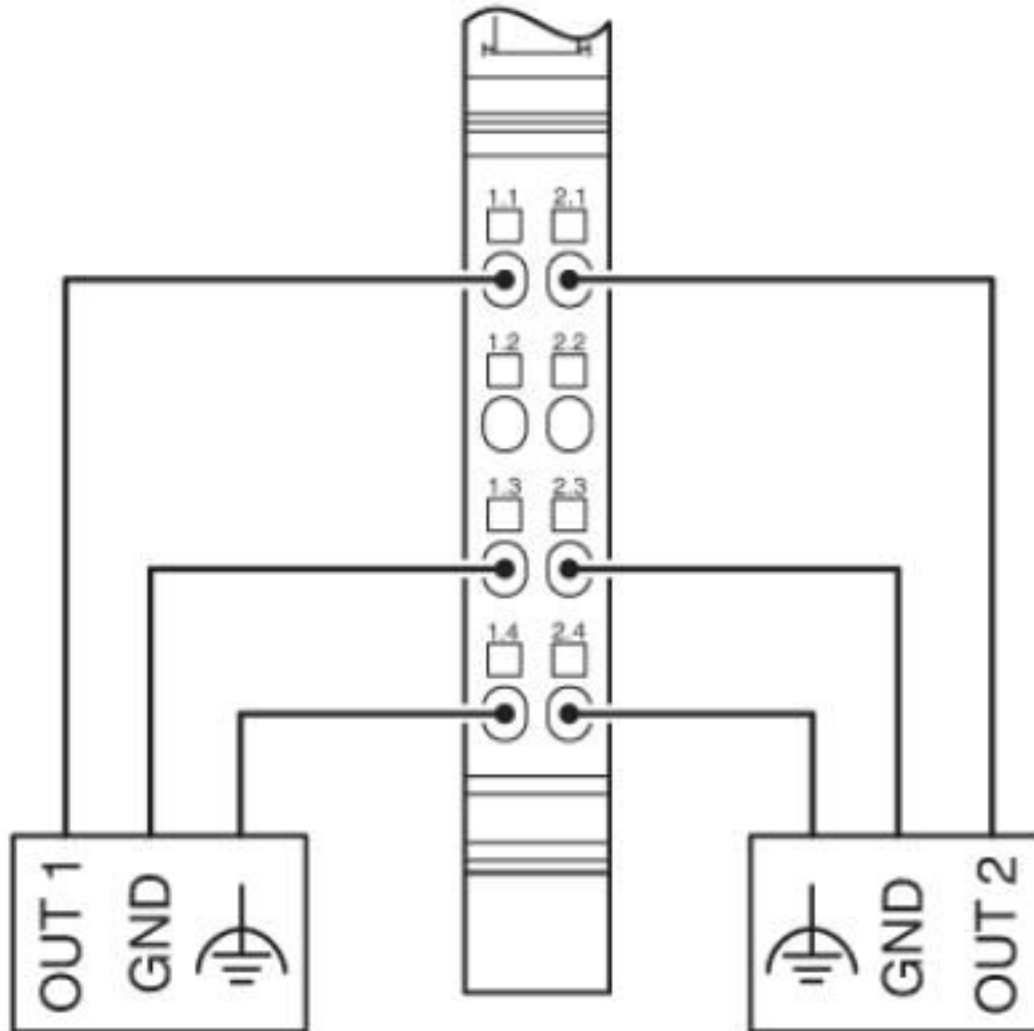
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

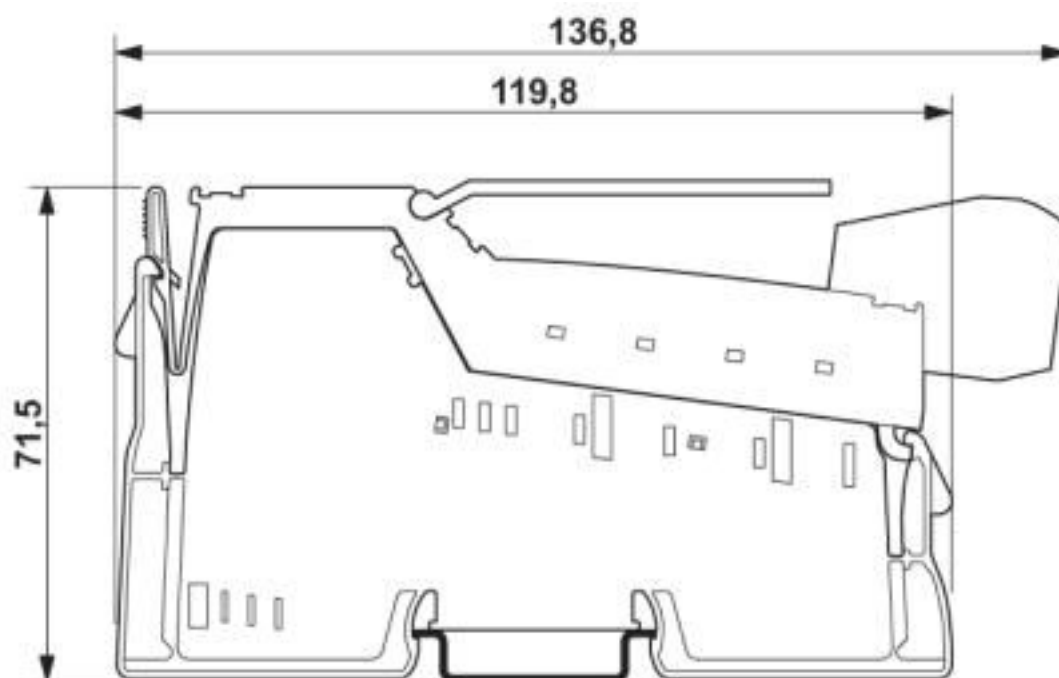
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Connection diagram



## Inline ME terminal - IB IL AO 2/U/BP-ME - 2863957

Dimensional drawing



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242601 |
| eCl@ss 11.0   | 27242601 |
| 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    | 27242601 |
| eCl@ss 8.0    | 27242601 |
| eCl@ss 9.0    | 27242601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001431 |
| ETIM 3.0 | EC001596 |
| ETIM 4.0 | EC001596 |
| ETIM 5.0 | EC001596 |
| ETIM 6.0 | EC001596 |
| ETIM 7.0 | EC001596 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 43172015 |
|-------------|----------|

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### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| 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 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                |                                                                                     |                                                                                                                                                       |               |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-------------------------------------------------------------------------------------|

### Accessories

#### Accessories

Labeling panel

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### Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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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

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