

<https://www.phoenixcontact.com/gb/products/2702496>

Inline terminal - IB IL AI 4/U/0-10-ECO - 2702496

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Inline ECO, Analog input terminal, Analog inputs: 4, 0 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Product Description

The terminal is designed for use within an Inline station.

The measured values are depicted in standardized representation format.


Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Your advantages

- 4 analog input channels
- Connection of sensors in 2-wire technology
- Voltage range: 0 V ... 10 V
- Data format: standardized representation
- Resolution: 12 bits
- Diagnostic indicator



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 205021 |
| GTIN | 4055626205021 |
| Weight per Piece (excluding packing) | 69.000 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

Inline terminal - IB IL AI 4/U/0-10-ECO - 2702496

Technical data

Dimensions

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

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | 0 °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 | 69 g |
| Note on weight specifications | with connector |
| Diagnostics messages | Failure of the internal I/O supply I/O error message sent to the bus coupler |
| | Checksum error I/O error message sent to the bus coupler |

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 | typ. 60 mA |
| | max. 70 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. 15 mA |
| | max. 20 mA |
| Power consumption | typ. 0.8 W |

Analog inputs

| | |
|--------------------------|------------------------------|
| Description of the input | Single-ended inputs, voltage |
| Input name | Analog inputs |
| Number of inputs | 4 |

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Technical data

Analog inputs

| | |
|--|-----------------------------|
| Connection method | Inline connector |
| Connection technology | 2-wire |
| Note regarding the connection technology | shielded, twisted pair |
| A/D converter resolution | 12 bit |
| Type of protection | Overload protection |
| | Transient protection |
| Data formats | Standardized representation |
| Measured value representation | 16 bits |
| Voltage input signal | 0 V ... 10 V |
| Input resistance of voltage input | 115 k Ω |

Electrical isolation

| | |
|--------------|---|
| Test section | Bus logic (local bus, communications power) 500 V AC 50 Hz 1 min. |
| | Analog I/O 500 V AC 50 Hz 1 min. |
| | Functional earth ground 500 V AC 50 Hz 1 min. |

Standards and Regulations

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

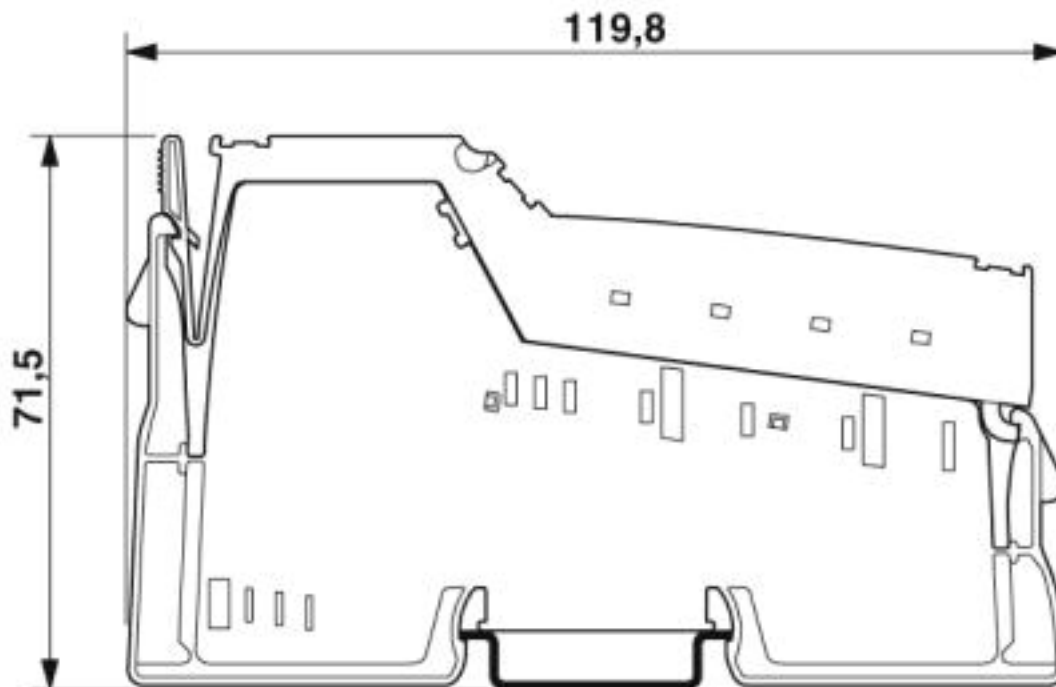
Environmental Product Compliance

| | |
|------------|---|
| | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

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Dimensional drawing



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250303 |
| eCl@ss 4.1 | 27250303 |
| eCl@ss 5.0 | 27250303 |
| eCl@ss 5.1 | 27242601 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242601 |
| eCl@ss 8.0 | 27242601 |
| eCl@ss 9.0 | 27242601 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001596 |
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001596 |
| ETIM 6.0 | EC001596 |
| ETIM 7.0 | EC001596 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |



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Classifications

UNSPSC

| | |
|--------------|----------|
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |

Approvals

Approvals

Approvals


UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| | | | |
|-----------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|---|---|---------------|

| | | | |
|------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
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