

Inline terminal - IB IL AO 4/U/0-10-ECO - 2702498

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Inline ECO, Analog output terminal, Analog outputs: 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.

It is used to output analog voltage signals.

The output 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 output channels
- Connection of actuators 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 204475 |
| GTIN | 4055626204475 |
| Weight per Piece (excluding packing) | 83.500 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 AO 4/U/0-10-ECO - 2702498

Technical data

Dimensions

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

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | 0 °C ... 55 °C (see "Derating" table in the data sheet) |
| 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 | 83.5 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. 35 mA |
| | max. 45 mA |
| Power consumption | typ. 1.3 W |

Analog outputs

| | |
|--|------------------------|
| Number of outputs | 4 |
| Connection technology | 2-wire |
| Note regarding the connection technology | shielded, twisted pair |

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Technical data

Analog outputs

| | |
|---------------------------------|---------------------------------------|
| Output name | Analog outputs |
| D/A converter resolution | 12 bit |
| Type of protection | Short-circuit and overload protection |
| | Transient protection |
| Protective circuit/component | Electronic |
| | Suppressor diode |
| Data formats | Standardized representation |
| Representation of output values | 16 bits |
| Process data update | < 10 ms |
| Voltage output signal | 0 V ... 10 V |
| Load/output load voltage output | > 2 kΩ |
| Precision | typ. 0.1 % |
| | max. 0.3 % |

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

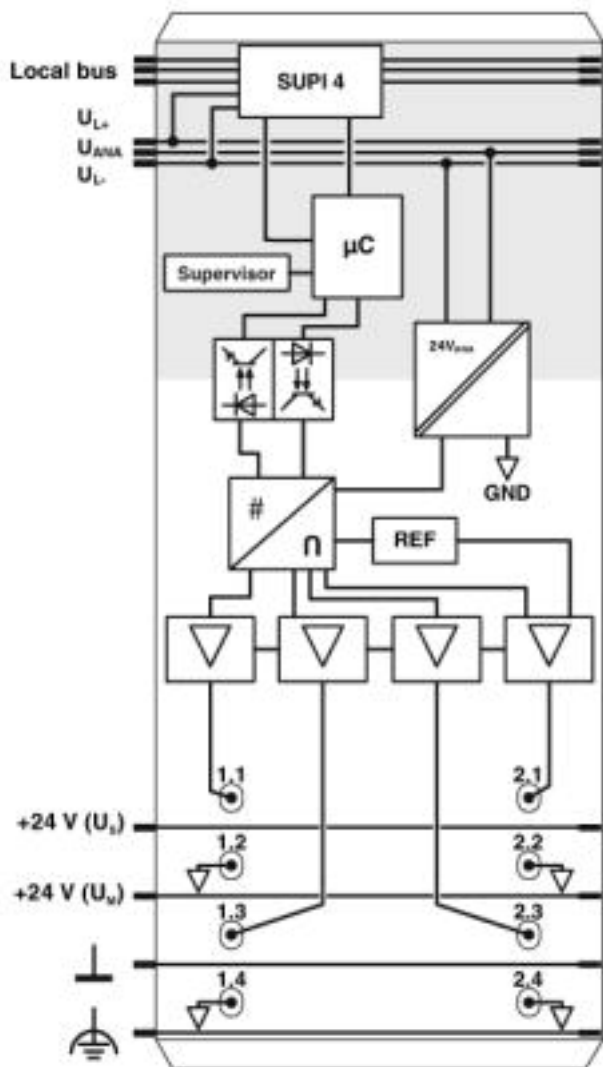
Environmental Product Compliance

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

Drawings

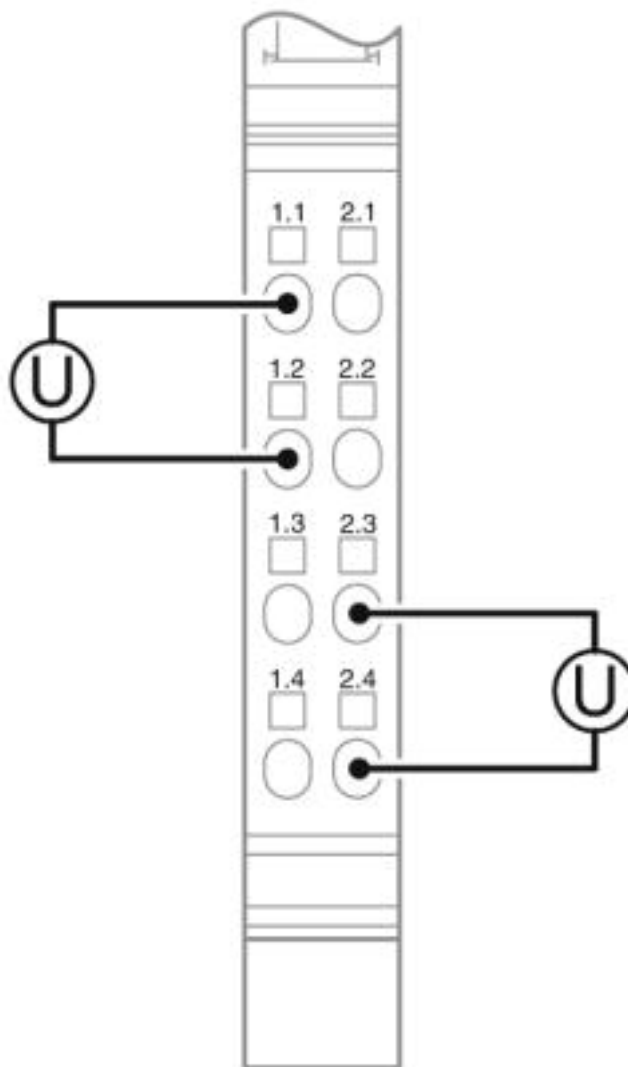
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Block diagram



Internal wiring of the terminal points

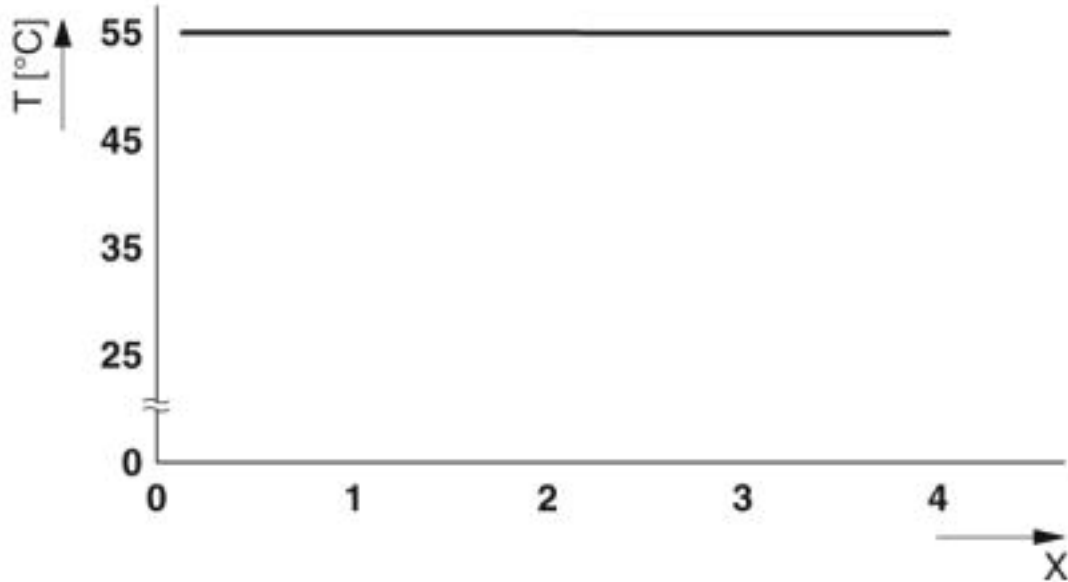
Connection diagram



Actuator connection

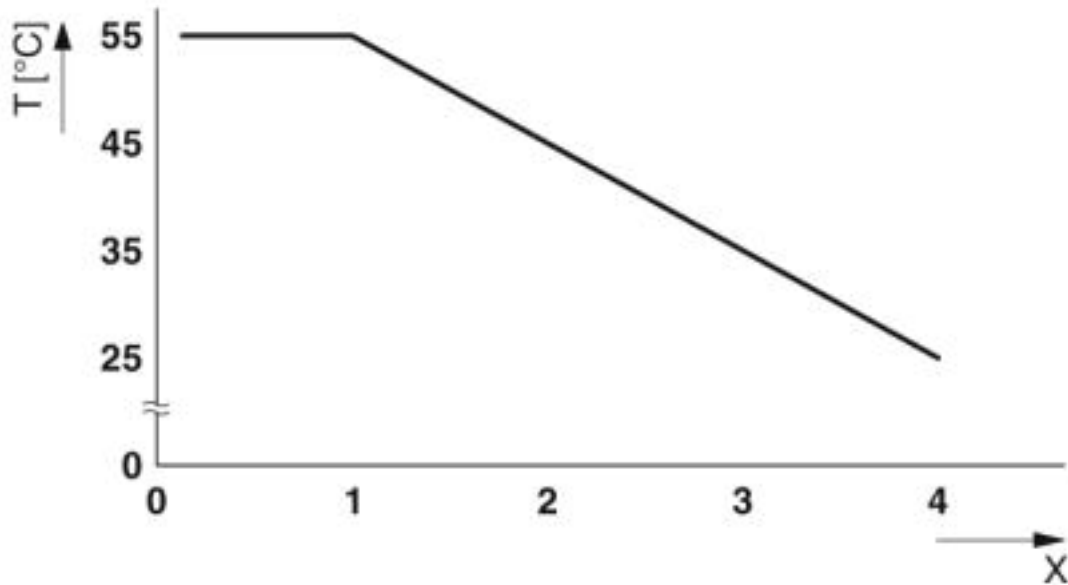
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Diagram



Derating with active convection

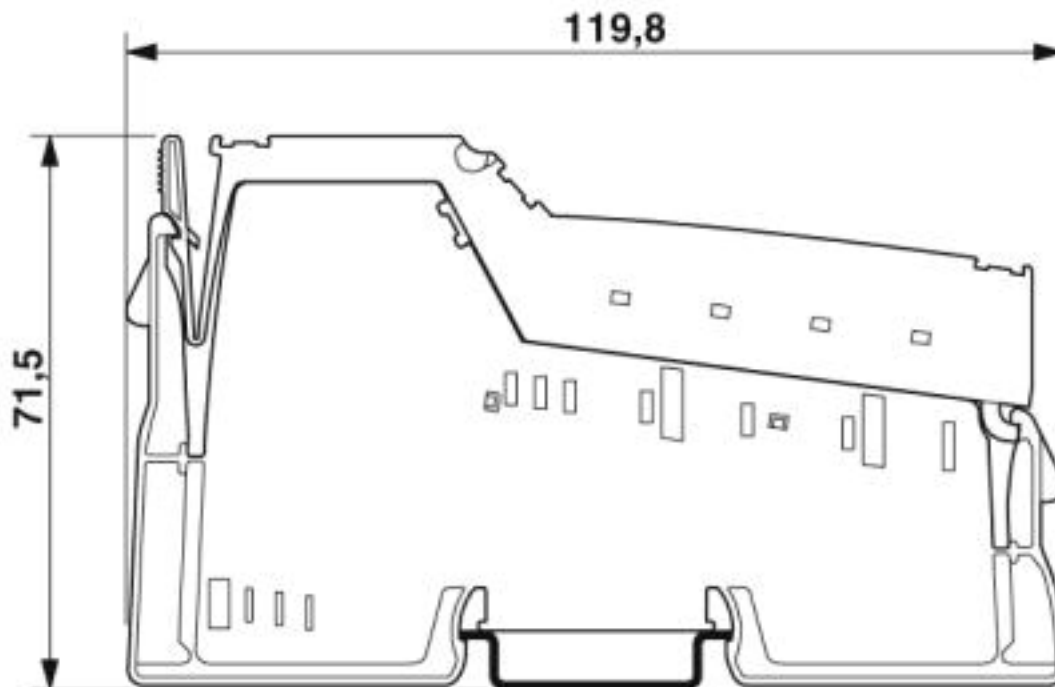
Diagram



Derating without active convection

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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 | EC002498 |
| ETIM 5.0 | EC001596 |
| ETIM 6.0 | EC001596 |
| ETIM 7.0 | EC001596 |

UNSPSC

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

<https://www.phoenixcontact.com/gb/products/2702498>



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Classifications

UNSPSC

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

Approvals

Approvals

Approvals


UL Listed / cUL Listed / UL Listed / cUL 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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