

Inline terminal - IB IL 24 DO 4/EF-ECO - 2702825

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Inline ECO, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, connection method: 3-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 digital signals.

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 digital outputs
- Connection of actuators in 2 and 3-wire technology
- Nominal current per output: 500 mA
- Total current of the terminal: 2 A
- Short-circuit-proof and overload-protected outputs
- Diagnostic and status indicators
- Approved for use in a safety-related segment circuit

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 0 5 5 6 2 6 3 8 1 4 7 3 |
| GTIN | 4055626381473 |

Technical data

Note

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

Dimensions

| | |
|--------|----------|
| Width | 12.2 mm |
| Height | 119.8 mm |

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Technical data

Dimensions

| | |
|-------|---------|
| 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 |

Connection data

| | |
|---------------------------------------|------------------------|
| Designation | Inline connector |
| Connection method | Spring-cage connection |
| Conductor cross section solid min. | 0.08 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.08 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 28 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 8 mm |

General

| | |
|-------------------------------|---|
| Mounting type | DIN rail |
| Net weight | 83.85 g |
| Note on weight specifications | with connector |
| Diagnostics messages | Short-circuit / overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module |

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. 44 mA |
| Power consumption | max. 0.33 W |
| 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 |

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Technical data

Inline potentials

| | |
|--|-----|
| | 0 A |
|--|-----|

Digital outputs

| | |
|------------------------------------|--|
| Output name | Digital outputs |
| Connection method | Spring-cage connection |
| Connection technology | 3-wire |
| Number of outputs | 4 |
| Type of protection | Overload protection, short-circuit protection of outputs |
| Output voltage | 24 V DC ($U_S - 1$ V) |
| Maximum inrush current | max. 1.5 A (for 20 ms) |
| Nominal output voltage | 24 V DC |
| Maximum output current per channel | 500 mA |
| Maximum output current per module | 2 A |
| Nominal load, inductive | 12 VA (1.2 H, 50 Ω) |
| Nominal load, lamp | 12 W |
| Nominal load, ohmic | 12 W (48 Ω) |

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

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

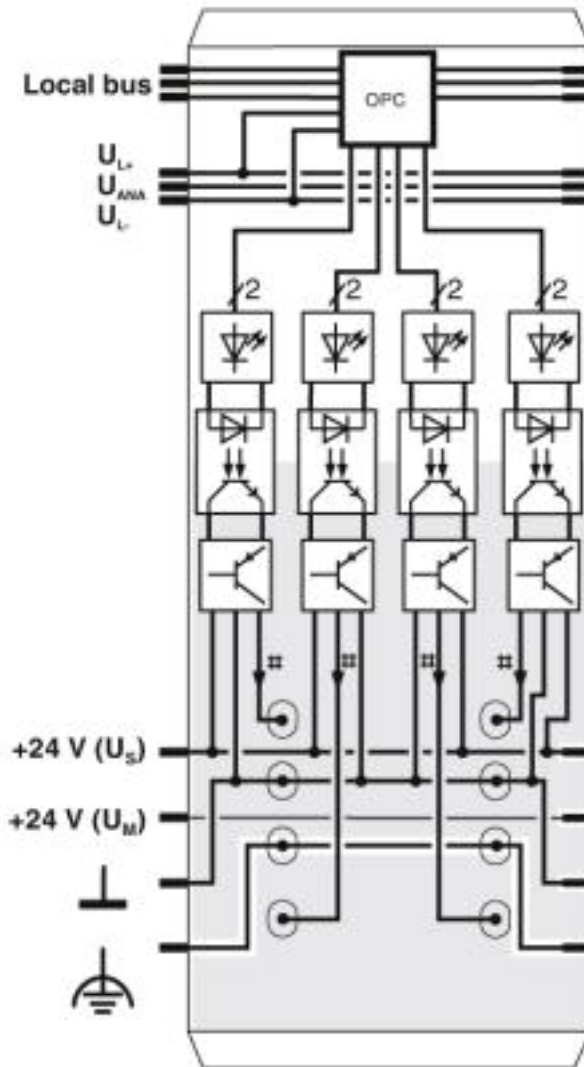
Environmental Product Compliance

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

Drawings

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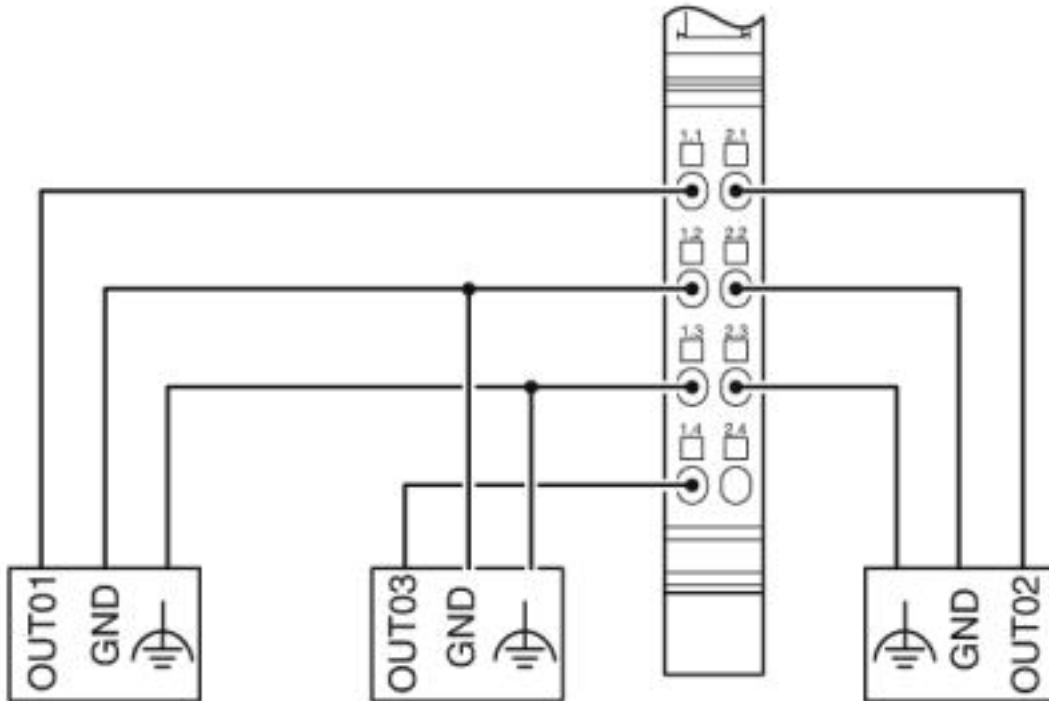
Block diagram



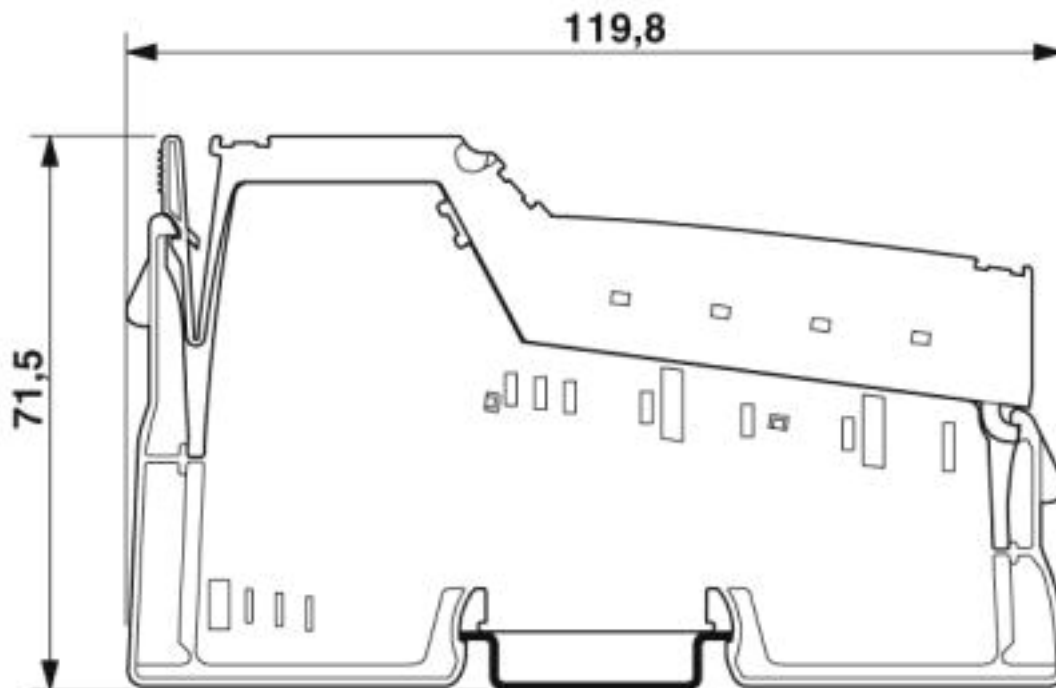
Internal wiring of the terminal points

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Connection diagram



Dimensional drawing



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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 140324 |
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| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
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