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Inline function terminal - IB IL UTH 4/J-ECO - 2702502

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Inline ECO, Temperature measurement terminal, Analog UTH inputs: 4 (type J), connection method: 2-wire, transmission speed in the local bus: 500 kbps, including Inline connector

Product Description


The terminal is designed for use within an Inline station.
This terminal can be used to acquire signals from standard thermocouples.
The terminal supports type J thermocouples according to DIN EN 60584-1.
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.

Why buy this product

- 4 differential inputs for thermocouples
- Measuring range: -210 °C ... +1200 °C
- Connection of sensors in 2-wire technology
- Diagnostic information in the process data word
- Diagnostic indicator



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 055626 206059 |
| GTIN | 4055626206059 |

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 |
| Depth | 71.5 mm |

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Technical data

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 |
| 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. 38 mA |
| | max. 55 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. 32 mA |
| | max. 39 mA |
| Power consumption | typ. 1.05 W (total) |

Analog inputs

| | |
|--|---------------------|
| Number of inputs | 4 (type J) |
| Input name | Analog UTH inputs |
| Description of the input | Differential inputs |
| Connection method | Inline connector |
| Connection technology | 2-wire |
| Note regarding the connection technology | shielded |
| Sensor types that can be used (TC) | J |
| Measuring principle | Sigma/Delta process |

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Technical data

Analog inputs

| | |
|-------------------------------|--------------------------------|
| Measured value representation | 16 bits (15 bits + sign bit) |
| A/D conversion time | typ. 120 ms |
| Resolution A/D | 24 bit |
| Process data update | < 10 ms |
| Type of protection | Transient protection of inputs |

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

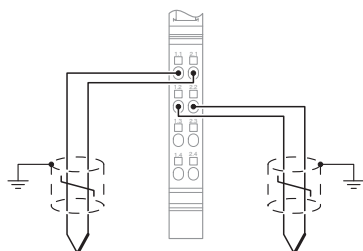
| | |
|------------------|--------------------------------------|
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
|------------------|--------------------------------------|

Environmental Product Compliance

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

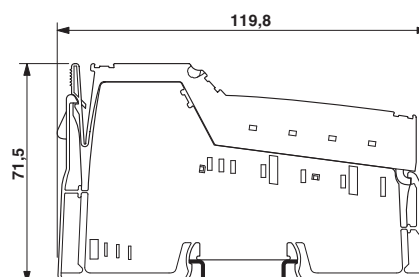
Drawings

Connection diagram



Connecting the sensors

Dimensional drawing



Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals


Inline function terminal - IB IL UTH 4/J-ECO - 2702502

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

| | | | |
|--------------|---|--|--|
| cULus Listed |  | | |
|--------------|---|--|--|

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