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Inline terminal - IB IL RTD 4/PT1000-ECO - 2702501

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Inline ECO, Temperature measurement terminal, Analog RTD inputs: 4 (Pt 1000), 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 acquire signals from resistive temperature sensors.

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 inputs
- Connection of sensors in 2-wire technology
- Supported sensors: Pt 1000
- Data format: standardized representation
- Diagnostic information in the process data word
- Diagnostic indicator



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 206035
GTIN	4055626206035
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
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Dimensions

Inline terminal - IB IL RTD 4/PT1000-ECO - 2702501

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	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. 56 mA
	max. 85 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. 7.3 mA
	max. 14 mA
Power consumption	typ. 0.67 W

Analog inputs

Number of inputs	4 (Pt 1000)
Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors

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Technical data

Analog inputs

Connection method	Inline connector
Connection technology	2-wire
Note regarding the connection technology	shielded
Sensor types (RTD) that can be used	Pt 1000 (IEC 60751/EN 60751)
Nominal value of the current sources	210 μ A (pulsed current, the data is valid during the sampling phase)
A/D conversion time	typ. 120 ms
A/D converter resolution	24 bit
Process data update	< 10 ms
Type of protection	Overload protection
	Transient protection
Data formats	Standardized representation
Input filter time	120 ms (per channel)
Input filter	Digital filter

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)
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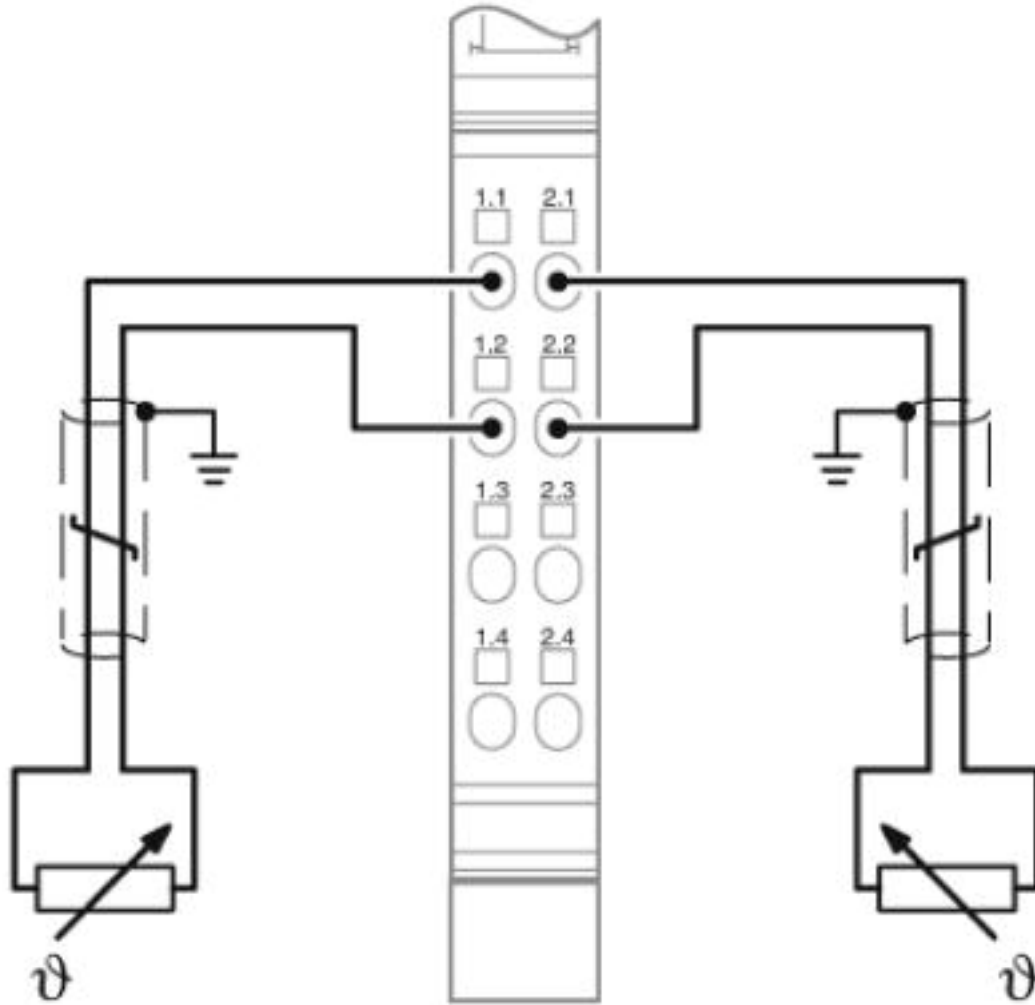
Environmental Product Compliance

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

Drawings

Inline terminal - IB IL RTD 4/PT1000-ECO - 2702501

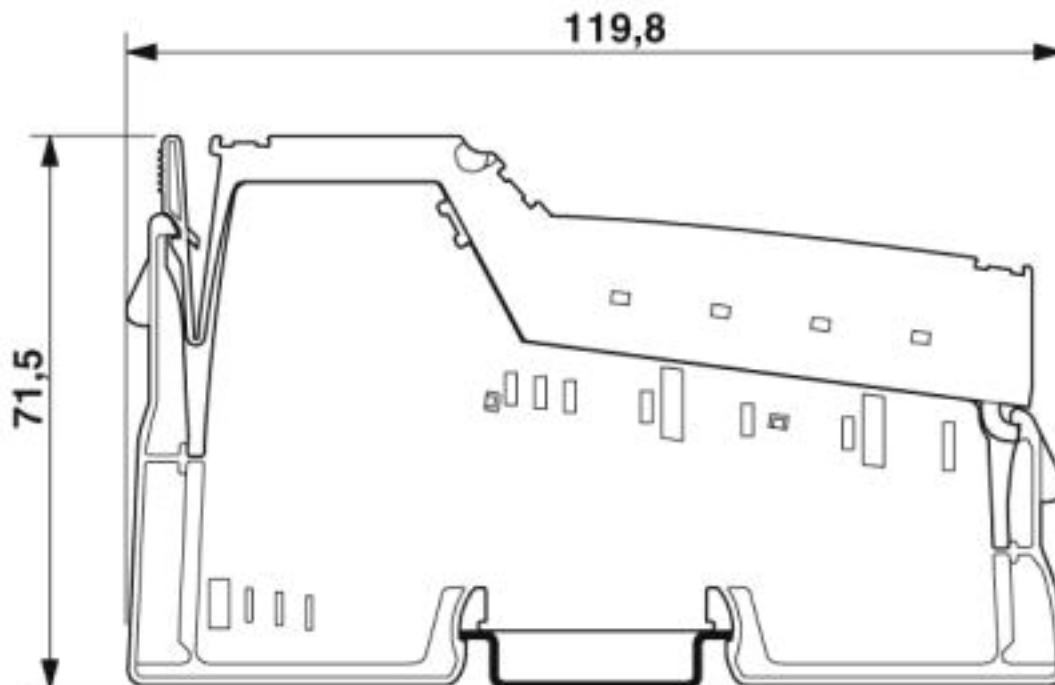
Connection diagram



Connecting the sensors

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