Inline terminal - IB IL AO 4/I/4-20-ECO - 2702497

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Inline ECO, Analog output terminal, Analog outputs: 4, 4 mA ... 20 mA, 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 current 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
- Current range: 4 mA ... 20 mA
- Data format: standardized representation
- Resolution: 12 bits
- Diagnostic indicator

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 204499
GTIN	4055626204499

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 (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
Net weight	84.1 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. 40 mA
	max. 50 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. 65 mA
	max. 85 mA
Power consumption	typ. 1.8 W

Analog outputs

Number of outputs	4
Connection technology	2-wire
Note regarding the connection technology	shielded, twisted pair
Output name	Analog outputs
D/A resolution	12 bit
Type of protection	Short-circuit and overload protection
	Transient protection
Protective circuit/component	Electronic

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Technical data

Analog outputs

	Suppressor diode
Data formats	Standardized representation
Representation of output values	16 bits
Process data update	< 10 ms
Current output signal	4 mA ... 20 mA
Load/output load current output	< 300 Ω
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

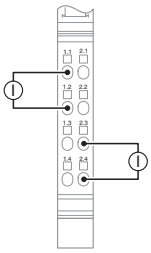
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Environmental Product Compliance

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

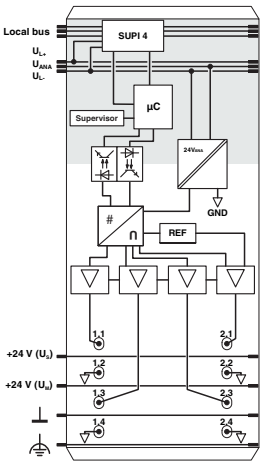
Drawings

Connection diagram



Actuator connection

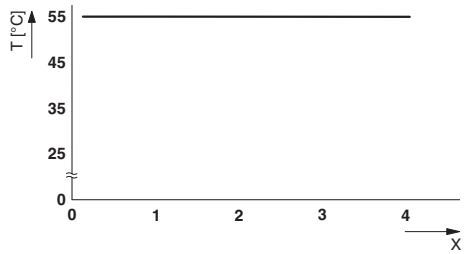
Block diagram



Internal wiring of the terminal points

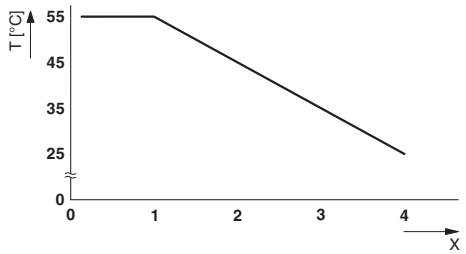
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Diagram



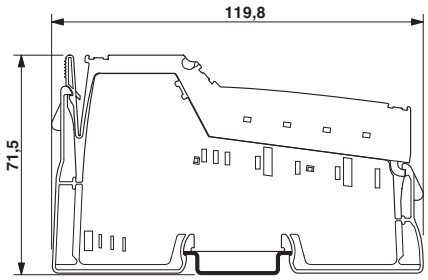
Derating with active convection

Diagram



Derating without active convection

Dimensional drawing



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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Approvals

cULus Listed

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