

Inline terminal - IB IL AI 4/I/4-20-ECO - 2702495

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Inline ECO, Analog input terminal, Analog inputs: 4, 4 mA ... 20 mA, Connection technology: 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.

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 analog input channels
- ☒ Connection of sensors 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 STK
GTIN	 4 055626 306759
GTIN	4055626306759
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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Technical data

Note

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

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	typ. 60 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 15 mA
Power consumption	typ. 0.8 W
	max. 0.9 W

Analog inputs

Description of the input	Single-ended inputs, current
Input name	Analog inputs

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Analog inputs

Number of inputs	4
Connection method	Inline connector
Connection technology	2-wire
Note regarding the connection technology	Shielded, twisted pair
Resolution A/D	12 bit
Type of protection	Overload protection
Protective circuit/component	max. ± 10 V DC, corresponds to max. ± 50 mA through the shunts
Data formats	Standardized representation
Measured value representation	16 bits
Current input signal	4 mA ... 20 mA
Input resistance current input	200 Ω

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

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