

# IB IL AI 2/4-20 - Inline terminal

2860442

<https://www.phoenixcontact.com/us/products/2860442>

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## INTERBUS Inline terminal with two analog input channels



## Product description

The terminal is designed for use within an Inline station. It is used to acquire analog voltage and current signals. Features - Two analog single-ended signal inputs for the connection of either voltage or current signals - Connection of sensors in 2 and 3-conductor technology - Three current measuring ranges: 0 mA to 20 mA,  $\pm 20$  mA, 4 mA to 20 mA - 2 voltage measuring ranges: 0 V ... 10 V,  $\pm 10$  V - Both channels preset to the 4 mA to 20 mA measuring range - Channels are configured independently of one another via INTERBUS - Measured values can be represented in four different formats

## Commercial data

Item number	2860442
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI141
GTIN	4017918877507
Weight per piece (including packing)	67.1 g
Weight per piece (excluding packing)	52.79 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	modular
	Inline

### System properties

#### Programming data

Register length (bus)	32 bit
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#### Fieldbus data telegram

Required parameter data	6 Byte
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### Electrical properties

#### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA
	typ. 45 mA

#### Potentials: Supply of analog modules ( $U_{ANA}$ )

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 18 mA
	typ. 13.5 mA

### Input data

#### Analog: General

Input name	Analog inputs
Number of inputs	max. 2 (single ended)
Connection technology	2-conductor (shielded)
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
	-20 mA ... 20 mA
Voltage input signal	0 V ... 10 V
	-10 V ... 10 V

#### Analog: Voltage inputs

Number of inputs	4 (Single-ended voltage inputs)
Voltage input signal	0 V ... 10 V
	-10 V ... 10 V

#### Analog: Current inputs

Number of inputs	4 (single-ended current inputs)
	0 mA ... 20 mA

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Current input signal	4 mA ... 20 mA
	-20 mA ... 20 mA

## Connection data

### Connection data of connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

## Interfaces

### Inline local bus

No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kBaud
Transmission physics	Copper

## Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

## Material specifications

Color	green
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
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)
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)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail
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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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