

IB IL AI 2-HART - Inline terminal



2860264

<https://www.phoenixcontact.com/us/products/2860264>

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Inline analog input terminal, without accessories, 2 inputs, 0 - 25 mA, 4 - 20 mA, 2-conductor connection technology, HART functionality, HART protocol transmission



The figure shows the version IB IL AI 2-HART-PAC

Commercial data

Item number	2860264
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI141
GTIN	4017918904494
Weight per piece (including packing)	165.7 g
Weight per piece (excluding packing)	138.71 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
	Inline

System properties

Module

ID code (dec.)	220
ID code (hex)	DC
Length code (hex)	02
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Register length	64 bit
Required parameter data	9 Byte
Required configuration data	5 Byte

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 110 mA
	typ. 95 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. 150 mA
	typ. 50 mA

Input data

Analog: General

Input name	Analog inputs
Number of inputs	max. 2 (Differential inputs, current)
A/D conversion time	approx. 10 μ s (bus-synchronous)
Connection technology	2-conductor (shielded)
Current input signal	4 mA ... 20 mA
	0 mA ... 25 mA
Data formats	IL, standardized representation
Limit frequency (3 dB)	25 Hz
Measuring principle	Successive approximation

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Measured value resolution	16 bits (15 bits + sign bit)
Measured value representation	16 bit two's complement

Analog: Voltage inputs

Input resistance current input	250 Ω
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Analog: Current inputs

Number of inputs	2 (Differential inputs, current)
Current input signal	4 mA ... 20 mA 0 mA ... 25 mA
Input resistance current input	250 Ω

Connection data

Inline connector

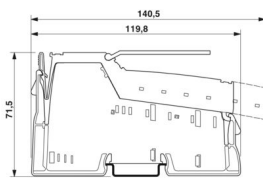
Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Interfaces

Inline local bus

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

Dimensions

Dimensional drawing	
Width	48.8 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
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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 mounting
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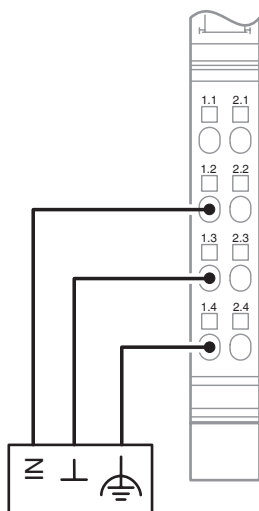
Drawings

Dimensional drawing

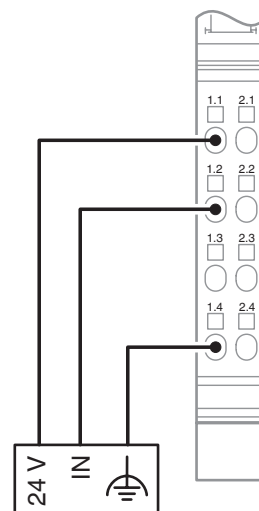


Connection diagram

Active sensors



Passive sensors



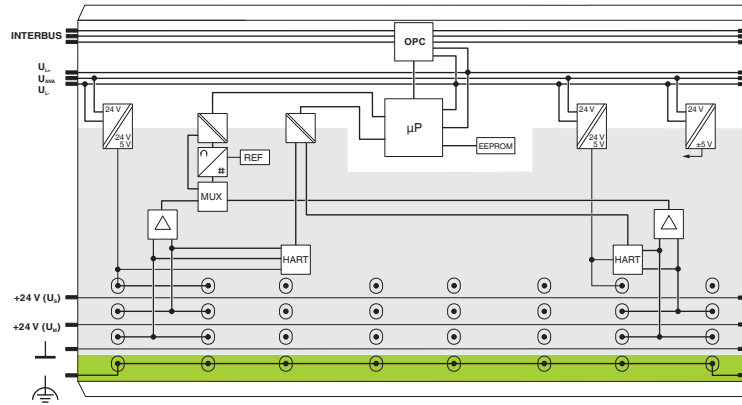
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Block diagram



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Environmental product compliance

EU REACH SVHC

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