

## Inline terminal - IB IL AI 2-HART-PAC - 2862149

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Inline analog input terminal block, complete with accessories (connector and labeling field), 2 inputs, 0-25 mA, 4-20 mA, 2-wire connection technology, HART functions, HART protocol transmission

### Product Features

- A hand-held operator panel can be connected
- A maximum of 5 HART devices can be connected per channel
- Polling and burst modes
- Two differential signal inputs for current sensors
- FDT/DTM support
- Measured value acquisition with 16-bit resolution
- Point-to-point and multi-drop connections possible
- Sensor connection with 2-wire connection technology



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	228.0 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

Width	48.8 mm
Height	135 mm
Depth	71.5 mm

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-25 °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	134 g
Operating mode	Process data operation with 2 words, PCP with 2 words
Diagnostics messages	Failure of the internal I/O supply Yes
	Peripheral fault Error message in the process data
	User error Error message in the process data

### Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

### Inline potentials

Communications power $U_L$	7.5 V DC
Current consumption from $U_L$	max. 110 mA
	typ. 95 mA
Current consumption from $U_S$	0 A DC
I/O supply voltage $U_{ANA}$	24 V DC
Current consumption from $U_{ANA}$	max. 150 mA
	typ. 50 mA
Power consumption	typ. 1.9 W

### Analog inputs

Description of the input	Differential inputs, current
Input name	Analog inputs
Number of inputs	2
Connection method	Inline shield connector
	2-wire (shielded)

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### Technical data

#### Analog inputs

A/D conversion time	approx. 10 $\mu$ s (bus-synchronous)
Resolution A/D	16 bit
Limit frequency (3 dB)	25 Hz
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Data formats	IB IL, standardized representation, PIO
Measuring principle	Successive approximation
Measured value resolution	16 bits (15 bits + sign bit)
Measured value representation	16 bit two's complement
Current input signal	4 mA ... 20 mA
	0 mA ... 25 mA
Input resistance current input	250 $\Omega$
Common mode voltage range signal - ground	40 V ()

#### Standards and Regulations

Test section	7.5 V supply (bus logic), 24 V supply $U_{ANA}$ / I/O 500 V AC 50 Hz
	7.5 V supply (bus logic), 24 V supply $U_{ANA}$ /functional earth ground 500 V AC 50 Hz 1 min.
	I/O / functional earth ground 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

### 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	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

#### ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

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## Classifications

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals


UL Listed / cUL Listed / ATEX / UL Listed / cUL Listed / cULus Listed


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#### Approvals submitted

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### Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 

## Accessories

### Accessories

### Device parameterization

## Inline terminal - IB IL AI 2-HART-PAC - 2862149

### Accessories

Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

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Software - AX DTM LIB - 2988065



DTM library

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### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### Plug

Inline shield connector - IB IL SCN 6-SHIELD-TWIN - 2740245



Inline shield connector

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Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

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## Accessories

### Terminal marking

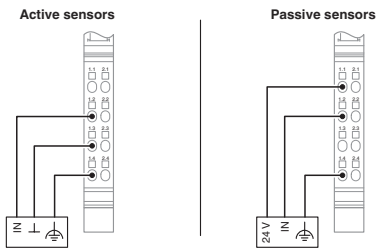
Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

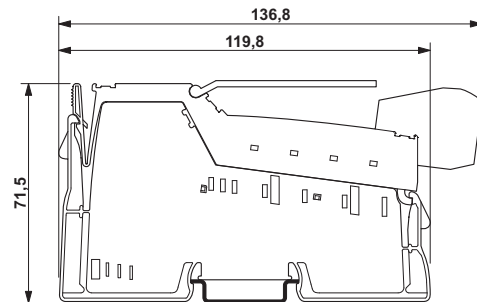


## Drawings

Connection diagram

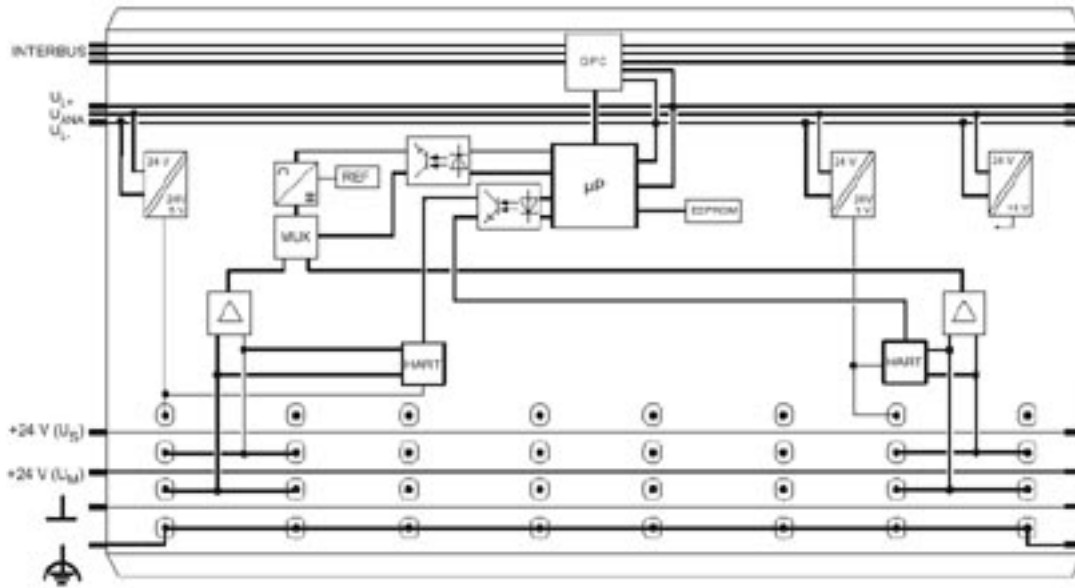


Dimensional drawing



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Block diagram



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