

Inline terminal - IB IL AI 8/IS-PAC - 2861661

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Inline analog input terminal, complete with accessories (plug and labeling field), 8 inputs, 0-20 mA, 4-20 mA, 0-40 mA, ± 20 mA, ± 40 mA, 2 and 3-wire connection method

Product Features

- Excellent interference suppression and common mode rejection
- High measuring accuracy
- Integrated short-circuit-proof sensor supply
- Overload-protected current inputs

Key commercial data

package_quantity	1
GTIN	4017918894504

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	136.8 mm
Depth	71.5 mm

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

Weight	125 g
Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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Technical data

General

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logic), 24 V supply U_{ANA} / I/O 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logic), 24 V supply U_{ANA} /functional earth ground 500 V AC 50 Hz 1 min
Test section	I/O / functional earth ground 500 V AC 50 Hz 1 min

Interfaces

Fieldbus system	Lokalbus
Name	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 (via voltage jumper)
Current consumption from U_L	max. 65 mA
Current consumption from U_I	typ. 52 mA
Current consumption from U_M	max. 200 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	max. 40 mA
Current consumption from U_{ANA}	typ. 31 mA

Analog inputs

Number of inputs	max. 8 (single ended)
Connection method	2-wire (shielded)
Input name	Analog inputs
A/D conversion time	approx. 10 μ s
Limit frequency (3 dB)	3.5 kHz
Data formats	IBS IL, IBS ST, IBS RT, standardized representation, PIO format
Measuring principle	Successive approximation
Measured value resolution	16 bits (15 bits + sign bit)
Measured value representation	16 bit two's complement
Current input signal	0 mA ... 20 mA
Current input signal	4 mA ... 20 mA
Current input signal	-20 mA ... 20 mA
Current input signal	0 mA ... 40 mA
Current input signal	-40 mA ... 40 mA
Number of inputs	8 (differential inputs, current)
Current input signal	0 mA ... 20 mA
Current input signal	4 mA ... 20 mA

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Analog inputs

Current input signal	-20 mA ... 20 mA
Current input signal	0 mA ... 40 mA
Current input signal	-40 mA ... 40 mA
Input resistance current input	25 Ω 0.01 %

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

UNSPSC

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

approvals

UL Recognized / cUL Recognized / GOST / LR / GL / DNV / ABS / RINA / GL-SW / BSH / BV / BSH / cULus Recognized / GL /

Approval details



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approvals

GOST

LR	
Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	

GL

DNV

ABS

RINA

GL-SW

BSH

BV	
Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	

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cULus Recognized

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accessories

Plug

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accessories

IB IL SCN 6-SHIELD-TWIN - 2740245



Labeling panel

IB IL FIELD 8 - 2727515



IB IL FIELD 2 - 2727501



Terminal marking

ESL 62X46 - 0809502



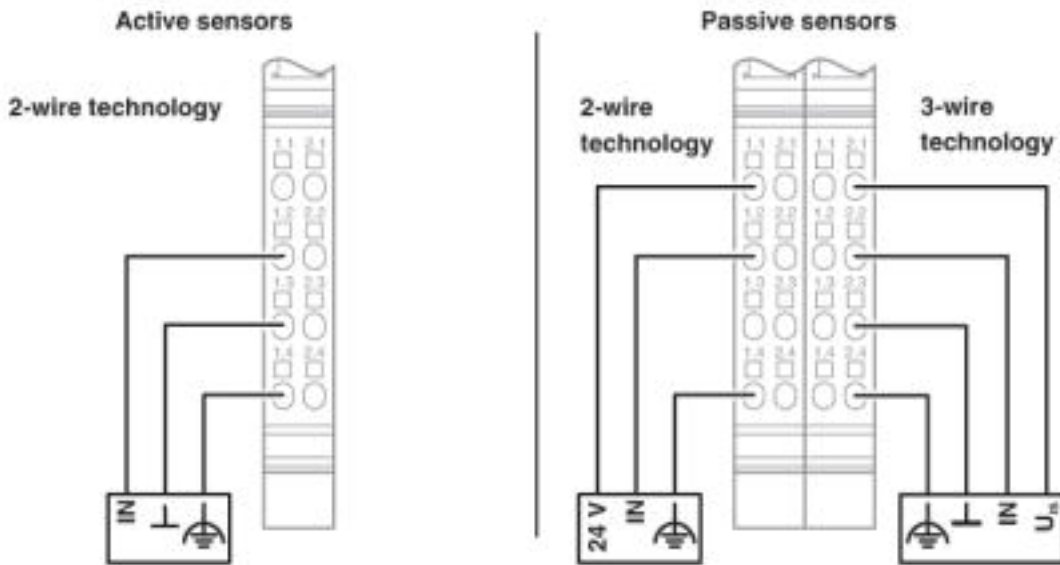
ESL 62X46 - 0809502



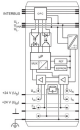
Drawings

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Connection diagram

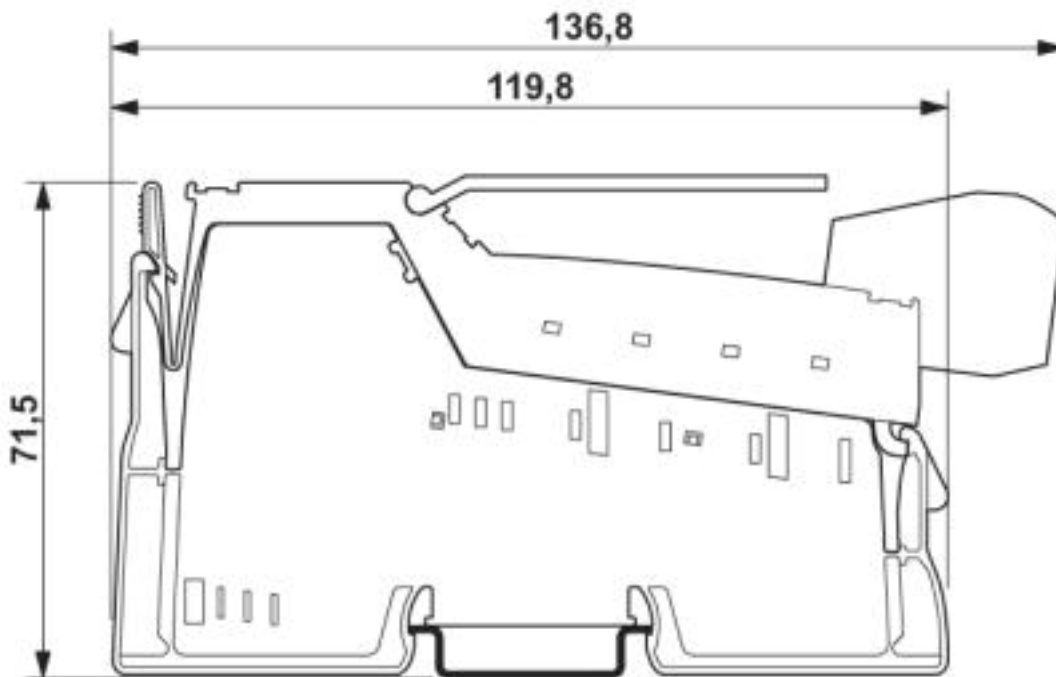


Block diagram



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Dimensioned drawing



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