

Inline terminal - IB IL AI 4/I-PAC - 2700458

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

Product Features

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

Key commercial data

package_quantity	1
GTIN	4046356566544

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
Note on dimensions	Housing dimensions

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	66 g
Note on weight specifications	With connector
Mounting type	DIN rail

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Technical data

General

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B; 6 kV contact discharge, 8 kV air discharge
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A; Field intensity: 10 V/m
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, 2 kV
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Transient surge voltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B; supply lines DC: ± 1 kV/ ± 1 kV (symmetrical/asymmetrical); shielded I/O cables: ± 1 kV
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A; Test voltage 10 V
Conformance with EMC directives	Noise emission test according to EN 61000-6-3 Radio interference properties EN 55022 Class A
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler
Diagnostics messages	I/O supply failure Message in the diagnostic code (in the IB IL format)
Diagnostics messages	Overrange or underrange Message in the diagnostic code (in the IB IL format)
Diagnostics messages	Configuration invalid Message in the diagnostic code (in the IB IL format)

Interfaces

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

Power supply for module electronics

Communications power U_L	7.5 V (via voltage jumper)
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Inline potentials

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	typ. 55 mA

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Inline potentials

I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 30 mA
Power consumption	typ. 0.94 W (total)

Analog inputs

Number of inputs	4 (differential inputs, current)
Connection method	2-wire
Input name	Analog inputs
A/D conversion time	max. 6.5 μ s
Resolution A/D	12 bit
Data formats	IB IL, S7-compatible
Measured value resolution	13 bits (12 bits + sign bit)
Measured value representation	13 bits (12 bits + sign bit)
Current input signal	0 mA ... 20 mA
Current input signal	4 mA ... 20 mA
Filtering	None or mean-value generation over 4, 16, or 32 measured values
Number of inputs	4 (differential inputs, current)
Open circuit response	Going to 0 mA; open-circuit detection from 4 mA ... 20 mA

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 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

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approvals

UL Listed / cUL Listed / cULus Listed /

Approval details

UL Listed 

cUL Listed 

cULus Listed 

accessories

Shield connection clamp

SK 8 - 3025163



SK 14 - 3025176



SK 20 - 3025189



Inline terminal - IB IL AI 4/I-PAC - 2700458

accessories

SK 35 - 3026463



Support

AB-SK - 3025341



AB-SK 65 - 3026489



AB-SK/E - 3026476



Neutral conductor rail

NLS-CU 3/10 SN 1000MM - 0402174



Pick-off terminal block

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accessories

AK 4 - 0404017



Installation terminal block

AKG 4 GNYE - 0421029



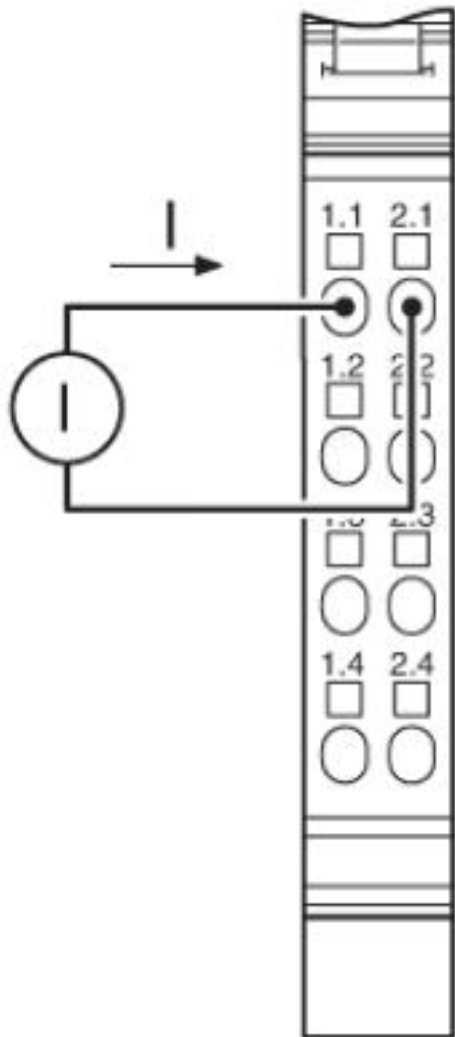
AKG 4 BK - 0421032



Drawings

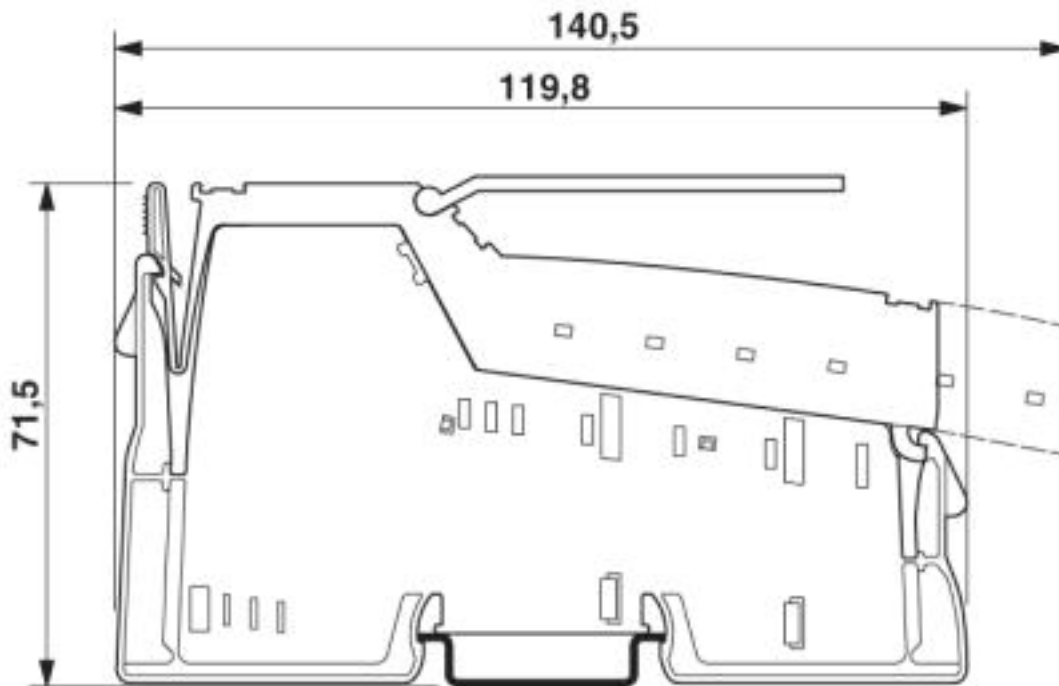
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Connection diagram



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Dimensioned drawing



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