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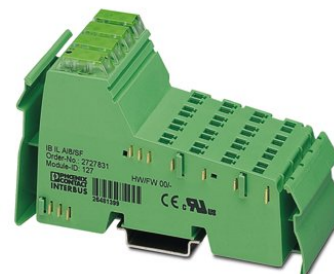


Extract from the online catalog

IB IL AI 8/IS

Order No.: 2742748

The illustration shows version IB IL AI 8/SF



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Inline analog input terminal, without accessories, 8 inputs, 0-20 mA, 4-20 mA, 0-40 mA, ± 20 mA, ± 40 mA, 2 and 3-wire connection method

Commercial data

GTIN (EAN)	
sales group	K412
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 73 (AX-2007)

Product notes

WEEE/RoHS-compliant since:
10/28/2008



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Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Product description

The terminal is designed for use within an Inline station. It serves to measure analog current signals from active and passive sensors.

Features:

- Eight analog single-ended signal inputs for the connection of active and passive current sensors
- Connection of the sensors using the 2 or 3-wire system
- Provides short-circuit protected supply voltage for passive sensors (U_{iS}; default 24 V)
- Different current measuring ranges

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- Configuration of the channels independently of one another via INTERBUS
- Measured values can be displayed in five different formats
- 16-bit analog/digital converters
- Process data multiplex operation
- Diagnostics display

Technical data

General data

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Weight	125 g
Mounting type	DIN rail
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
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
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic), 24 V supply U_{ANA} / I/O 500 V AC 50 Hz 1 min
	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

Interface

Name	Inline local bus
Type of connection	Inline data jumper
Transmission speed	500 kbps
	500 kBit/s
Transmission physics	Copper

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Inline potential routing

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	max. 65 mA
	Typ. 52 mA
Current consumption from U_M	200 mA
Current consumption from U_S	0 A DC
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	max. 40 mA
	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)
Measured value representation	16-bit two's complement
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
	-20 mA ... 20 mA
	0 mA ... 40 mA
	-40 mA ... 40 mA
Number of inputs	8 (single-ended current inputs)
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
	-20 mA ... 20 mA
	0 mA ... 40 mA
	-40 mA ... 40 mA
Input resistance current input	25 Ω 0.01 %

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Certificates / Approvals



Certification ABS, CUL, DNV, GL, GOST, UL

Certifications applied for: LR / BV

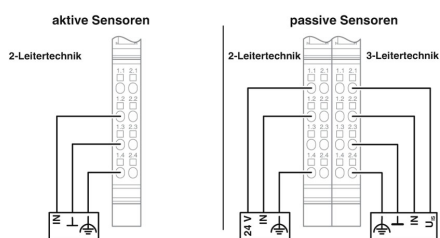
Accessories

Item	Designation	Description
Marking		
0809502	ESL 62X46	Insert strip for laser printer, lettering field: 62 x 46 mm
0809502	ESL 62X46	Insert strip for laser printer, lettering field: 62 x 46 mm
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
2727515	IB IL FIELD 8	Labeling field, width: 48.8 mm

Plug/Adapter		
2740245	IB IL SCN 6-SHIELD-TWIN	Inline shield connector

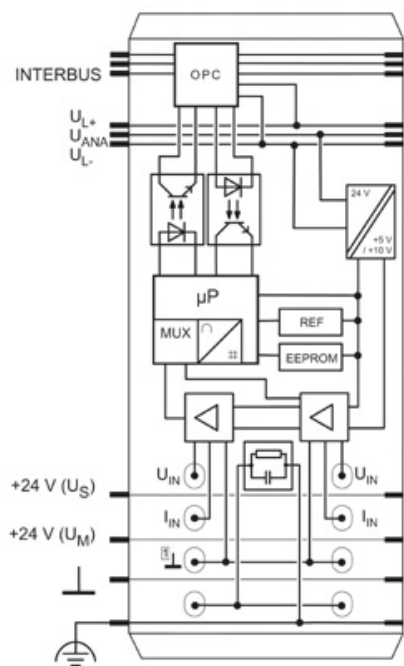
Diagrams/Drawings

Connection diagram

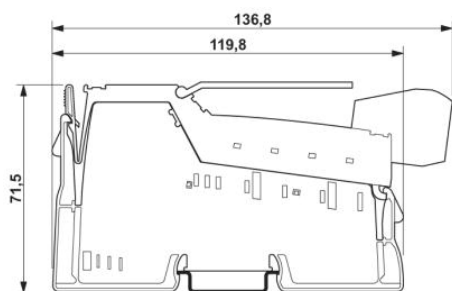


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Block diagram



Dimensioned drawing



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