


IB IL AI 4/EF-2MBD-PAC

Order No.: 2878641

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2878641>

Inline analog input terminal with differential input channels, complete with accessories (connector and labeling field), 2 Mbaud, 4 inputs, 0-20 mA, 4-20 mA, ± 20 mA, 0-10 V, ± 10 V, 0-5 V, ± 5 V, 2, 3 or 4-conductor connection method

Commercial data

GTIN (EAN)	 4 017918 996413
sales group	K412
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 282 (AX-2009)

Product notes

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



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Technical data**General data**

Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm
Weight	150 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	2 Mbps
	2 MBit/s
Transmission physics	Copper

Inline potential routing

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	max. 125 mA
	Typ. 110 mA
Current consumption from U_M	max. 200 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	max. 20 mA
	Typ. 13 mA

Analog inputs

Number of inputs	max. 4 (2 differential inputs, voltage or current can be chosen separately)
Type of connection	Inline shield connector
Connection method	2, 3-conductor

Input name	Analog inputs
Data formats	IL, IB ST, standardized display, S7 compatible
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
	-20 mA ... 20 mA
Voltage input signal	0 V ... 5 V
	-5 V ... 5 V
	0 V ... 10 V
	-10 V ... 10 V
Number of inputs	4 (differential inputs, voltage)
Voltage input signal	0 V ... 5 V
	-5 V ... 5 V
	0 V ... 10 V
	-10 V ... 10 V
Input resistance of voltage input	300 kΩ
Number of inputs	4 (differential inputs, current)
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
	-20 mA ... 20 mA
Input resistance current input	Approx. 220 Ω

Certificates / Approvals



Certification CUL, UL
 Certifications applied for: UL-EX LIS / CUL-EX LIS

Accessories

Item	Designation	Description
Marking		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm
0809502	ESL 62X46	Insert strip for laser printer, lettering field: 62 x 46 mm

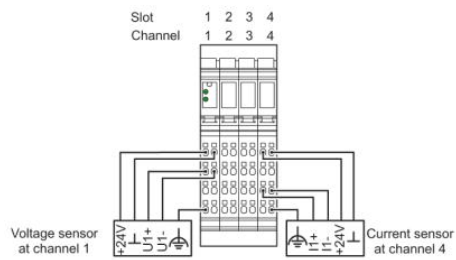
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
2727515	IB IL FIELD 8	Labeling field, width: 48.8 mm

Plug/Adapter

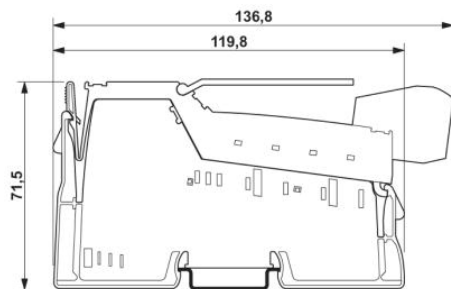
2726353	IB IL SCN-6 SHIELD	Inline shield connector
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Diagrams/Drawings

Connection diagram



Dimensioned drawing



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