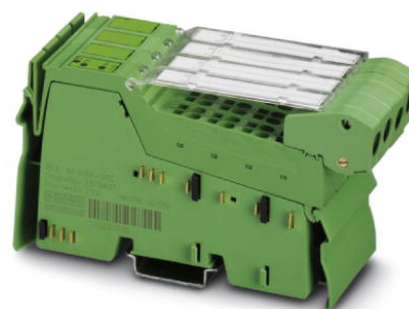



IB IL AI 4/EF-PAC

Order No.: 2878447

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2878447>

Inline analog input terminal with differential input channels, complete with accessories (connector and labeling field), 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 996376 |
| sales group | K412 |
| Pack | 1 pcs. |
| Customs tariff | 85389091 |
| Catalog page information | Page 282 (AX-2009) |

Product notes

WEEE/RoHS-compliant since:
03/10/2008



<http://www.download.phoenixcontact.com>
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.

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 | 500 kbps |
| | 500 kBit/s |

Inline potential routing

| | |
|------------------------------------|-------------------------------|
| Communications power U_L | 7.5 V DC (via voltage jumper) |
| Current consumption from U_L | max. 110 mA |
| | Typ. 85 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 |
| Measured value resolution | 16 bits (15 bits + sign) |
| 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 k Ω |
| 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 ABS, BV, CUL, DNV, GL, LR, UL

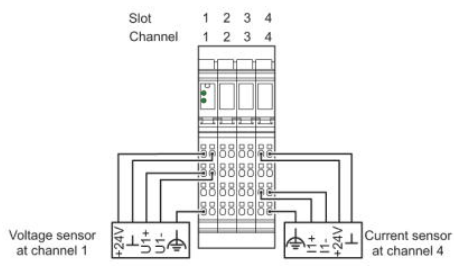
Certifications applied for: UL-EX LIS / CUL-EX LIS

Accessories

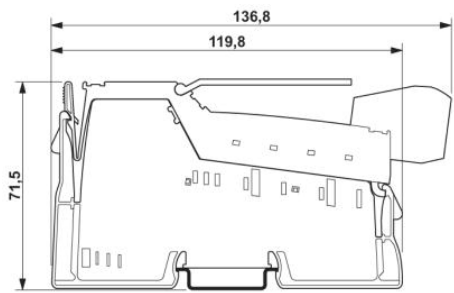
| Item | Designation | Description |
|---------------------|--------------------|---|
| Marking | | |
| 0809492 | ESL 62X10 | Insert strip for laser printer, lettering field: 62 x 10 mm |
| 0809502 | ESL 62X46 | Insert strip for laser printer, lettering field: 62 x 46 mm |
| 2727501 | IB IL FIELD 2 | 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 |

Diagrams/Drawings

Connection diagram



Dimensioned drawing



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