

# IB IL AO 2/U/BP-PAC

Order No.: 2861467



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2861467>

Inline analog output terminal block, complete with accessories  
(connector and labeling field), 2 outputs, 0 - 10 V,  $\pm 10$  V, 2-wire  
connection method



## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 894382 |
| sales group              | K412                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85389091                                                                                               |
| Catalog page information | Page 291 (AX-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
04/11/2007



[http://  
www.download.phoenixcontact.com](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  
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Use apply to Internet downloads.

## Technical data

### General data

|        |          |
|--------|----------|
| Width  | 12.2 mm  |
| Height | 136.8 mm |
| Depth  | 71.5 mm  |

|                                          |                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------|
| Weight                                   | 48 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                             | 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 |
|                                          | 24 V supply (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             |

#### Inline potential routing

|                                    |                               |
|------------------------------------|-------------------------------|
| Communications power $U_L$         | 7.5 V DC (via voltage jumper) |
| Current consumption from $U_L$     | max. 40 mA                    |
|                                    | Typ. 33 mA                    |
| I/O supply voltage $U_{ANA}$       | 24 V DC                       |
| Current consumption from $U_{ANA}$ | max. 35 mA                    |
|                                    | Typ. 25 mA                    |

#### Analog outputs

|                     |                                 |
|---------------------|---------------------------------|
| Number of outputs   | 2                               |
| Connection method   | 2-wire (shielded)               |
| Output name         | Analog outputs                  |
| D/A conversion time | < 100 $\mu$ s                   |
| Type of protection  | Transient protection of outputs |

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Data formats                    | IL, IB ST                                 |
| Measured value representation   | 16 bits (15 bits + sign bit)              |
| DAC resolution                  | 13 Bit                                    |
| Process data update             | < 2 ms                                    |
| Voltage output signal           | 0 V ... 10 V<br>-10 V ... 10 V            |
| Load/output load voltage output | > 2 kΩ 0.05 %                             |
| Precision                       | Typ. 0.02 % (of output range final value) |

#### Certificates / Approvals



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

Certification Ex: CUL-EX LIS, UL-EX LIS

Certifications applied for: LR / BV

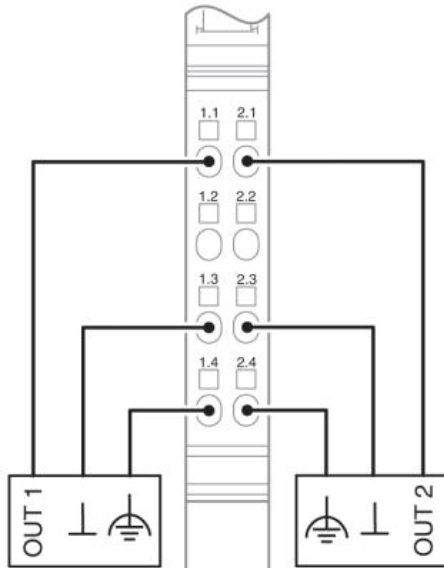
#### Accessories

| Item                | Designation        | Description                                                 |
|---------------------|--------------------|-------------------------------------------------------------|
| <b>Marking</b>      |                    |                                                             |
| 0809492             | ESL 62X10          | Insert strip for laser printer, lettering field: 62 x 10 mm |
| 2727501             | IB IL FIELD 2      | Labeling field, width: 12.2 mm                              |
| <b>Plug/Adapter</b> |                    |                                                             |
| 2732664             | IB IL AO/CNT-PLSET | Connector set                                               |
| 2726353             | IB IL SCN-6 SHIELD | Inline shield connector                                     |
| 2726337             | IB IL SCN-8        | Connector, for digital 1, 2 or 8-channel Inline terminals   |
| 2727608             | IB IL SCN-8-CP     | Inline connector, colored                                   |

## Diagrams/Drawings

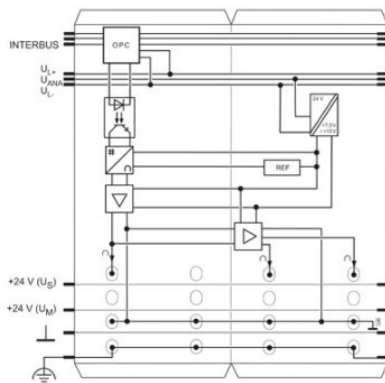
### Connection diagram

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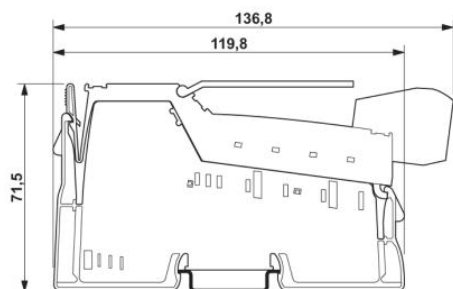
### Block diagram

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Dimensioned drawing

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