

IB IL AO 4/8/U/BP-PAC - Analog module



2878036

<https://www.phoenixcontact.com/us/products/2878036>

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Inline, Analog output terminal, Analog outputs: 8, 0 V ... 10 V, -10 V ... 10 V, 0 V ... 5 V, -5 V ... 5 V, connection technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The terminal is designed for use within an Inline station. It is used to output analog voltage signals. The output values are displayed as 8-bit or 16-bit values.

Your advantages

- Short update time of < 1 ms
- Short-circuit-proof current outputs
- Bipolar outputs
- Measured value acquisition with a resolution of 16 bits

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2878036 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR01 |
| Product key | DRI142 |
| GTIN | 4046356048439 |
| Weight per piece (including packing) | 245.2 g |
| Weight per piece (excluding packing) | 215 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

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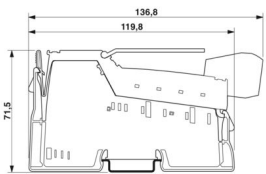


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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 48.8 mm |
| Height | 136.8 mm |
| Depth | 71.5 mm |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Material specifications

| | |
|-----------------|------------------|
| Color (Housing) | green (RAL 6021) |
|-----------------|------------------|

Interfaces

Inline local bus

| | |
|----------------------|--------------------|
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |
| Transmission physics | Copper |

System properties

Programming data (LocalbusSlave)

| | |
|-------------------------|---------|
| Length code (hex) | 05 |
| ID code (dec.) | 223 |
| Length code (dec) | 05 |
| Process data channel | 80 bit |
| Input address area | 10 Byte |
| Output address area | 10 Byte |
| Parameter channel (PCP) | 2 Byte |
| Register length (bus) | 96 bit |

Fieldbus data telegram

| | |
|-----------------------------|---------|
| Required parameter data | 27 Byte |
| Required configuration data | 5 Byte |

Output data

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Analog:

| | |
|--|---|
| Output name | Analog outputs |
| Connection technology | 2-conductor |
| Note regarding the connection technology | shielded |
| Number of outputs | 8 |
| D/A converter resolution | 16 bit |
| Protective circuit | Transient protection of outputs |
| Data formats | IB IL, IB ST, IB RT, standardized representation, S7 compatible |
| Representation of output values | 16 bits (15 bits + sign) |
| Process data update | < 2 ms (depends on operating mode) |
| Voltage output signal | 0 V ... 10 V -10 V ... 10 V 0 V ... 5 V -5 V ... 5 V |
| Load/output load voltage output | > 2 kΩ 0.05 % |

Product properties

| | |
|-----------------------|--|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |
| Installation location | Control cabinet |
| Scope of supply | including Inline connectors and marking fields |

Insulation characteristics

| | |
|----------------------|------------------------------|
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

Electrical properties

| | |
|---|-------|
| Maximum power dissipation for nominal condition | 2.6 W |
|---|-------|

Potentials: Communications power (U_L)

| | |
|----------------|-------------------------------|
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current draw | typ. 80 mA |

Potentials: Supply of analog modules (U_{ANA})

| | |
|----------------------|--|
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | typ. 72 mA |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Inline connector

| | |
|-------------------|------------------------|
| Connection method | Spring-cage connection |
|-------------------|------------------------|

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| | |
|-----------------------------------|--|
| Conductor cross-section, rigid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| 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) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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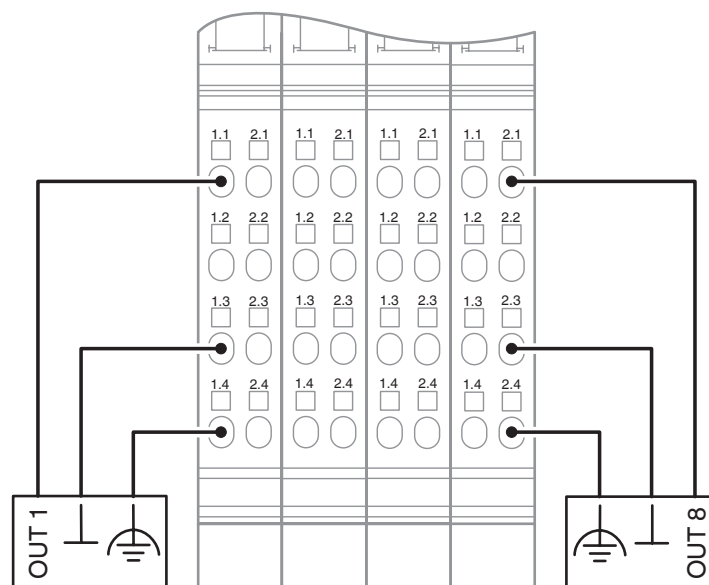
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Drawings

Dimensional drawing



Connection diagram

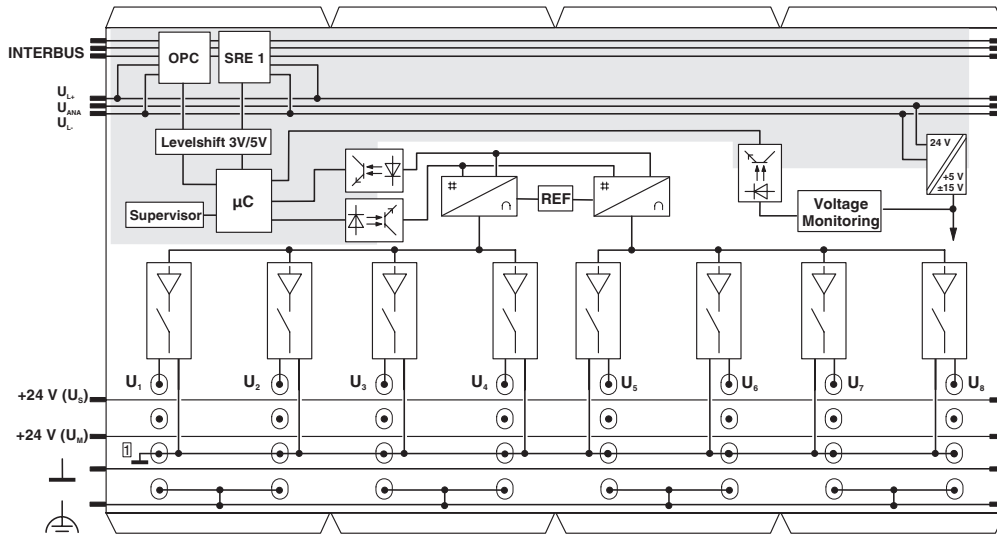


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Block diagram



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Approvals

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cULus Listed

Approval ID: E140324

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242601 |
| ECLASS-15.0 | 27242601 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001596 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 8767bde3-621f-4d89-9306-5a3ce35ca494 |

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