

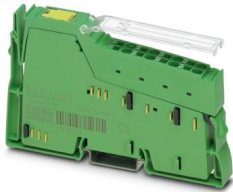
# IB IL AO 2/UI-PAC - Analog module



2700775

<https://www.phoenixcontact.com/us/products/2700775>

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Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

## Product description

The terminal is designed for use within an Inline station. It is used to output analog current and voltage signals.

## Your advantages

- 2 analog output channels
- Connection of actuators in 2-conductor technology
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA,  $\pm 20$  mA
- Voltage ranges: 0 V ... 10 V,  $\pm 10$  V
- Diagnostic and status indicators

## Commercial data

Item number	2700775
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI142
GTIN	4046356639965
Weight per piece (including packing)	80.6 g
Weight per piece (excluding packing)	66 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

### Notes

#### Note on application

Note on application	Only for industrial use
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### Material specifications

Color (Housing)	green (RAL 6021)
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### Interfaces

#### Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

### System properties

#### Programming data (LocalbusSlave)

Length code (hex)	04
ID code (dec.)	91
Length code (dec)	04
Process data channel	64 bit
Input address area	8 Byte
Output address area	8 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	64 bit

#### Fieldbus data telegram (PROFIBUS)

Required parameter data	10 Byte
Required configuration data	5 Byte

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## Output data

Analog:

Output name	Analog outputs
Connection technology	2-conductor
Note regarding the connection technology	shielded
Number of outputs	2
D/A conversion time	typ. 10 µs
D/A converter resolution	12 bit
Protective circuit	Short-circuit and overload protection; Electronic Transient protection; Suppressor diode
Data formats	IB IL, S7-compatible
Representation of output values	12 bits (11 bits + sign bit)
Process data update	bus-synchronous
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA -20 mA ... 20 mA
Load/output load current output	≤ 450 Ω
Voltage output signal	0 V ... 10 V -10 V ... 10 V
Load/output load voltage output	> 1 kΩ
Permissible cable length	max. 250 m (The specifications refer to nominal operation after complying with installation instructions. The specifications refer to the following reference cable type: Shielded power station cable: LiYCY; 2 x 2 x 0,5 mm <sup>2</sup> ; VDE0812)

## Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including Inline connector and labeling field
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler I/O supply failure Message in the diagnostic code (in the IB IL format) Short circuit/overload of the outputs Message in the diagnostic code (in the IB IL format) Configuration invalid Message in the diagnostic code (in the IB IL format)

## 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	2.3 W
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## Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 65 mA
	typ. 55 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	max. 75 mA (Nominal current load ( $I_{OUT1/2} = 20 \text{ mA}$ , $R_L = 0 \Omega$ ))
	max. 30 mA (No-load)
	typ. 38 mA (Nominal voltage load ( $U_{OUT1/2} = 10 \text{ V}$ , $R_L = 1 \text{ k}\Omega$ ))
	max. 45 mA (Nominal voltage load ( $U_{OUT1/2} = 10 \text{ V}$ , $R_L = 1 \text{ k}\Omega$ ))
	typ. 65 mA (Nominal current load ( $I_{OUT1/2} = 20 \text{ mA}$ , $R_L = 0 \Omega$ ))
	typ. 24 mA (No-load)

## Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V supply (bus logics)/24 V analog supply (analog I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logic)/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V analog supply (analog I/O)/functional ground	500 V AC, 50 Hz, 1 min

## Connection data

### Connection technology

Connection name	Inline connector
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### Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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)

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
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Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g
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## Standards and regulations

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

Mounting type	DIN rail mounting
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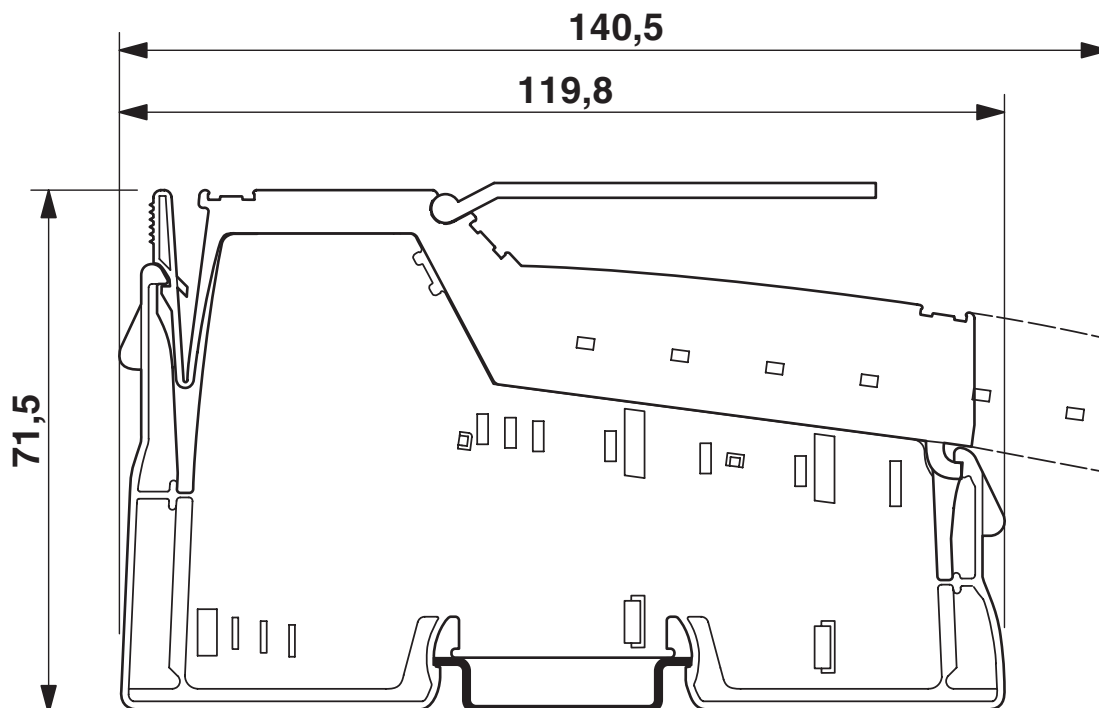
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## Drawings

Dimensional drawing



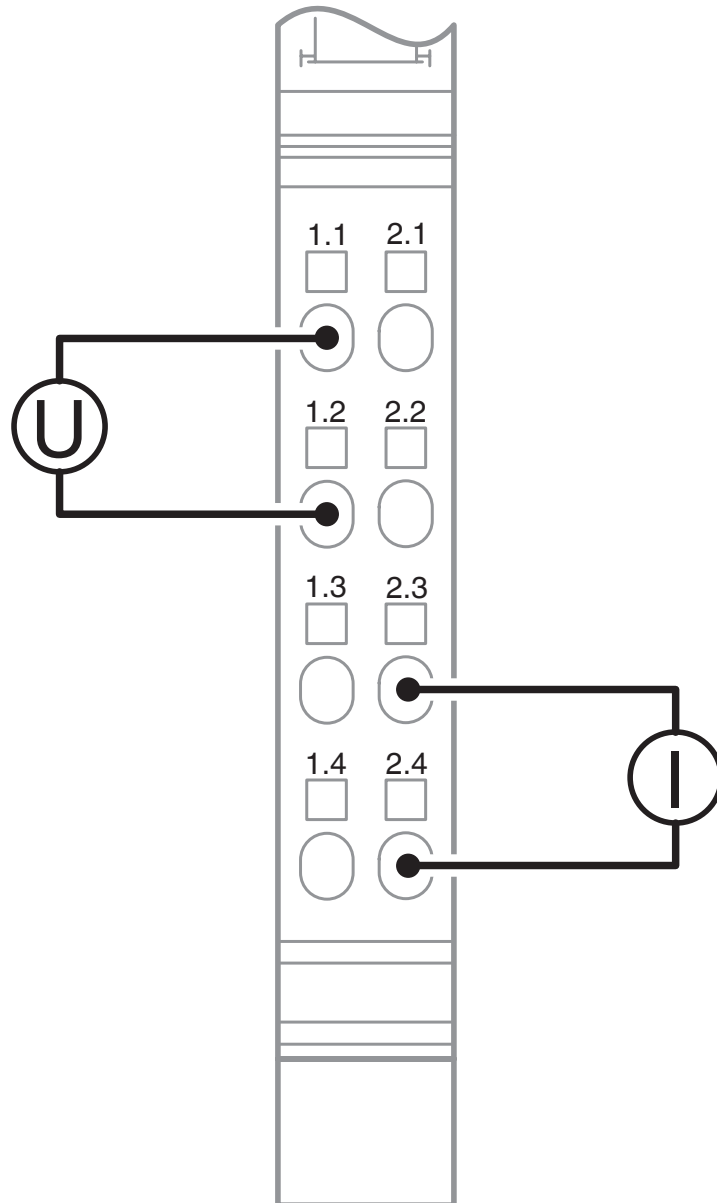
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Connection diagram



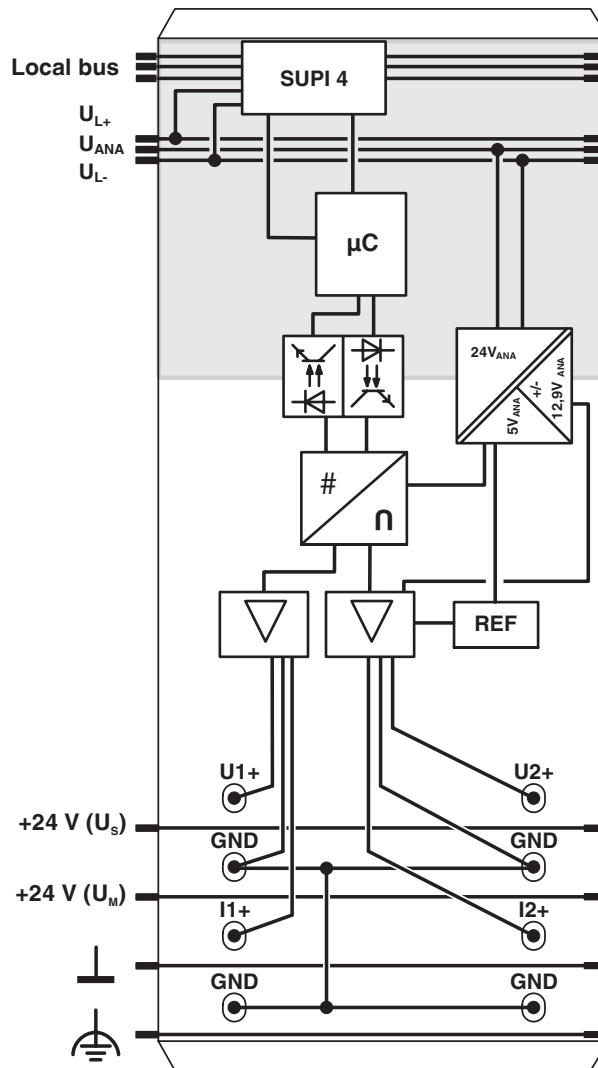
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Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2700775>



**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

### ETIM

ETIM 10.0	EC001596
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### 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)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	122f3673-ca89-49bf-9d79-213b5253ce53

### EF3.1 Climate Change

CO2e kg	8.45 kg CO2e
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