

# NLC-IO-4AI - I/O extension module



2701098

<https://www.phoenixcontact.com/us/products/2701098>

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I/O extension module for use with Nanoline base unit. Equipped with 4 analog input channels. A maximum of three I/O extension modules can be attached to a base unit.

## Your advantages

- Automatically recognized by the firmware
- I/O modules are electrically isolated
- Can be powered from a secondary power supply
- A system may have up to 8 analog inputs and 8 analog outputs
- Configuration options for 0 - 10 V DC,  $\pm 10$  V DC, 4 - 20 mA, and 0 - 20 mA
- Up to 3 modules can be added to the right side of a base unit

## Commercial data

Item number	2701098
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR11
Product key	DRACAC
GTIN	4046356325318
Weight per piece (including packing)	188 g
Weight per piece (excluding packing)	186.2 g
Customs tariff number	85389099
Country of origin	IN

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## Technical data

### Product properties

Product type	Extension module
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### Electrical properties

Supply: Module electronics

Supply voltage	24 V DC
Supply current	nom. 50 $\mu$ A
	max. 90 $\mu$ A

### Input data

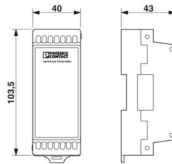
Analog:

Input name	Analog inputs
Description of the input	Single ended
Number of inputs	4 (Voltage or current can be chosen separately)
Connection method	Individual wires
Connection technology	Screw connection
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Input resistance current input	120 $\Omega$
Voltage input signal	0 V ... 10 V
	-10 V ... 10 V
Input resistance of voltage input	200 k $\Omega$
A/D converter resolution	12 bit
Limit frequency (3 dB)	5 Hz

### Connection data

Connection method	Screw connection
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### Dimensions

Dimensional drawing	
Width	40 mm
Height	103.5 mm
Depth	43 mm

### Material specifications

Color	white
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	0 % ... 90 % (at 25 °C)

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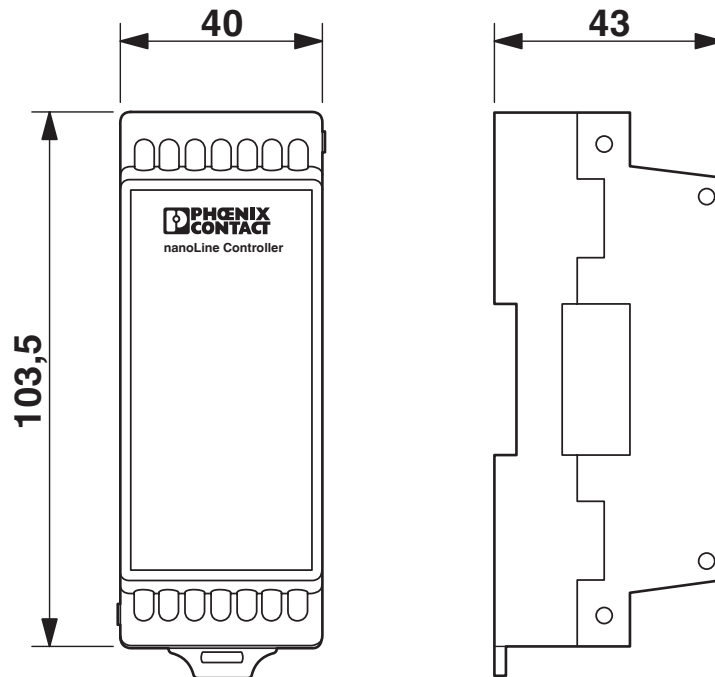
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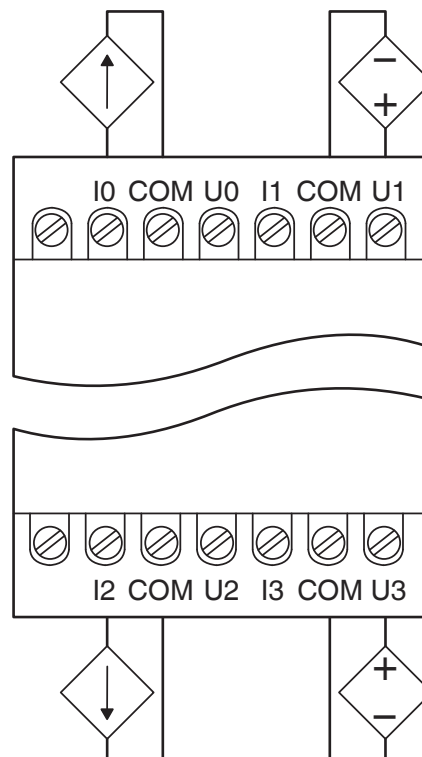


## Drawings

Dimensional drawing



Connection diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2701098>



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0

27242216

### ETIM

ETIM 9.0

EC001417

### UNSPSC

UNSPSC 21.0

39122300

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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