

# NLC-IO-2AI-2AO-01 - I/O extension module



2701040

<https://www.phoenixcontact.com/us/products/2701040>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



I/O extension module for use with Nanoline base unit. Equipped with 2 analog input (0...10 V DC, -10...+10 V DC, 0/4...20 mA) and 2 analog output (0...10 V DC, 0/4...20 mA) channels. A maximum of three I/O extension modules can be attached to a base unit.

## Commercial data

Item number	2701040
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR11
Product key	DRACAC
GTIN	4046356629522
Weight per piece (including packing)	206.4 g
Weight per piece (excluding packing)	199 g
Customs tariff number	85389099
Country of origin	IN

2701040

<https://www.phoenixcontact.com/us/products/2701040>

## Technical data

### Product properties

Product type	Extension module
--------------	------------------

### Electrical properties

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 24 V DC
Supply current	100 mA

### Input data

Analog:

Input name	Analog inputs
Description of the input	Single ended
Number of inputs	2 (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 Ω
Voltage input signal	0 V ... 10 V -10 V ... 10 V
Input resistance of voltage input	200 kΩ
A/D converter resolution	12 bit
Limit frequency (3 dB)	5 Hz

### Output data

Analog:

Output name	Analog outputs
Connection method	Individual wires
Connection technology	Screw connection
Number of outputs	2
D/A converter resolution	12 bit
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA
Load/output load current output	500 Ω
Voltage output signal	0 V ... 10 V
Load/output load voltage output	1000 Ω
Precision	1 %

### Connection data

# NLC-IO-2AI-2AO-01 - I/O extension module

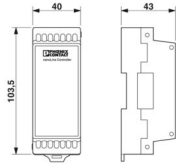


2701040

<https://www.phoenixcontact.com/us/products/2701040>

Connection method	Screw connection
-------------------	------------------

## Dimensions

Dimensional drawing	
Width	40 mm
Height	103.5 mm
Depth	43 mm

## Material specifications

Color	black
-------	-------

## 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)

# NLC-IO-2AI-2AO-01 - I/O extension module

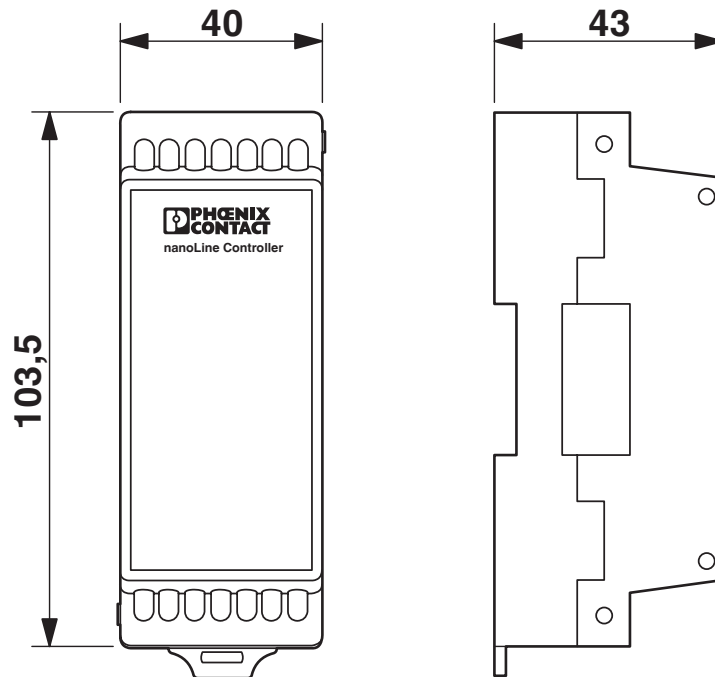
2701040

<https://www.phoenixcontact.com/us/products/2701040>



## Drawings

Dimensional drawing



# NLC-IO-2AI-2AO-01 - I/O extension module



2701040

<https://www.phoenixcontact.com/us/products/2701040>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2701040>



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

# NLC-IO-2AI-2AO-01 - I/O extension module



2701040

<https://www.phoenixcontact.com/us/products/2701040>

## Classifications

### ECLASS

ECLASS-13.0

27242216

### ETIM

ETIM 9.0

EC001417

### UNSPSC

UNSPSC 21.0

39122300

2701040

<https://www.phoenixcontact.com/us/products/2701040>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### 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	97944160-c72e-4e20-9690-e85af7d3ddb4

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)