

NLC-IO-06I-04QTN-01A - I/O extension module



2701085

<https://www.phoenixcontact.com/us/products/2701085>

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 6 digital input and 4 NPN digital output 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
- Up to 3 modules can be added to the right side of a base unit
- Can be powered from a secondary power supply

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2701085 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR11 |
| Product key | DRACAB |
| GTIN | 4046356325325 |
| Weight per piece (including packing) | 177 g |
| Weight per piece (excluding packing) | 149.9 g |
| Customs tariff number | 85389099 |
| Country of origin | IN |

Technical data

Product properties

| | |
|-------------------|---|
| Product type | Extension module |
| Product family | Nanoline |
| Mounting position | Attaches to DB-9 connector on right-side of base unit |

Electrical properties

Supply: Module electronics

| | |
|-------------------|--------------------------|
| Connection method | Screw connection |
| Supply voltage | 24 V DC |
| Supply current | typ. 50 mA max. 90 mA |

Input data

Digital:

| | |
|-----------------------------------|-------------------------------------|
| Input name | Digital inputs |
| Description of the input | PNP/NPN |
| Number of inputs | 6 |
| Connection method | Screw connection |
| Input voltage range "0" signal | 0 V DC ... 5 V DC |
| Input voltage range "1" signal | 15 V DC ... 30 V DC |
| Nominal input current at U_{IN} | 5 mA DC (On) < 100 μ A (Off) |
| Typical response time | 60 μ s (on) 70 μ s (OFF) |

Output data

Digital:

| | |
|---|---------------------------------------|
| Output name | Digital outputs |
| Output description | NPN outputs |
| Connection method | Screw connection |
| Number of outputs | 4 |
| Protective circuit | Short-circuit and overload protection |
| Maximum output current per channel | 500 mA |
| Maximum output current per module / terminal block | 2 A |
| Maximum output current per module | 2 A |
| Nominal load, inductive | 12 VA ((1.2H)) |
| Nominal load, lamp | 12 W |
| Nominal load, ohmic | 12 W |
| Maximum operating frequency with ohmic nominal load | 100 Hz |

NLC-IO-06I-04QTN-01A - I/O extension module



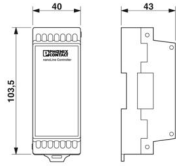
2701085

<https://www.phoenixcontact.com/us/products/2701085>

Connection data

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 40 mm |
| Height | 103.5 mm |
| Depth | 43 mm |

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 % |

Mounting

| | |
|-------------------|---|
| Mounting type | DIN rail mounting |
| | DIN rail mounting |
| Mounting position | Attaches to DB-9 connector on right-side of base unit |

NLC-IO-06I-04QTN-01A - I/O extension module

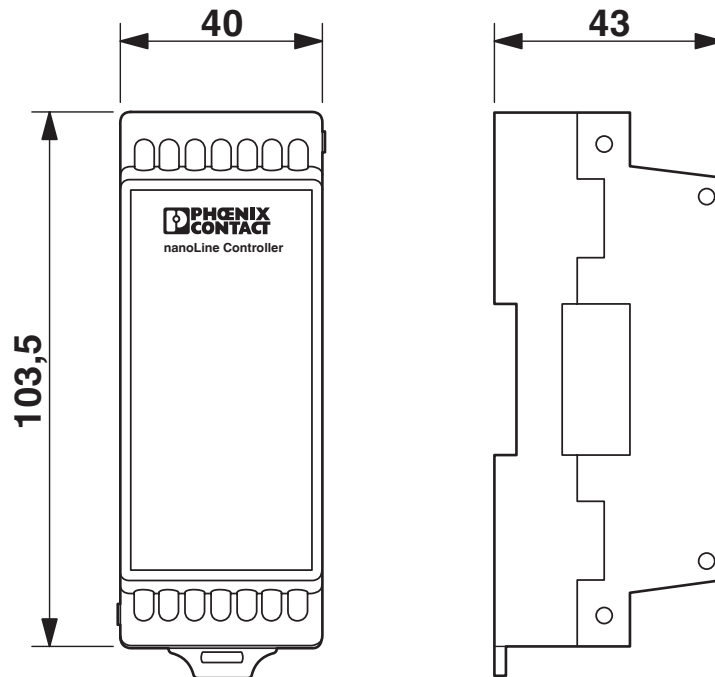


2701085

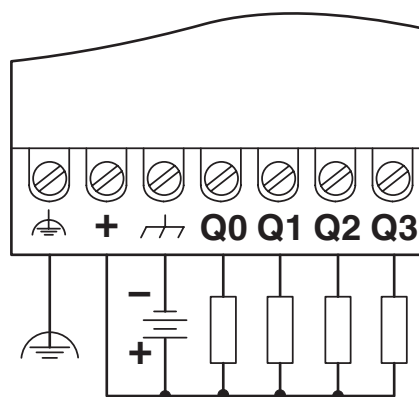
<https://www.phoenixcontact.com/us/products/2701085>

Drawings

Dimensional drawing



Connection diagram



NLC-IO-06I-04QTN-01A - I/O extension module



2701085

<https://www.phoenixcontact.com/us/products/2701085>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2701085>



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

2701085

<https://www.phoenixcontact.com/us/products/2701085>

Classifications

ECLASS

ECLASS-13.0

27242216

ETIM

ETIM 9.0

EC001417

UNSPSC

UNSPSC 21.0

39122300

2701085

<https://www.phoenixcontact.com/us/products/2701085>

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 | 04719544-f2cc-4bfe-a67f-44a6e7c268bf |

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