

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



2701085

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

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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                |
| Product key                          | DRACAB              |
| Catalog page                         | Page 465 (C-8-2015) |
| 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                  |

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## 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<br>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)<br>< 100 $\mu$ A (Off) |
| Typical response time             | 60 $\mu$ s (on)<br>70 $\mu$ 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                                |

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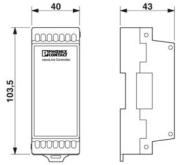
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## Connection data

|                   |                  |
|-------------------|------------------|
| 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

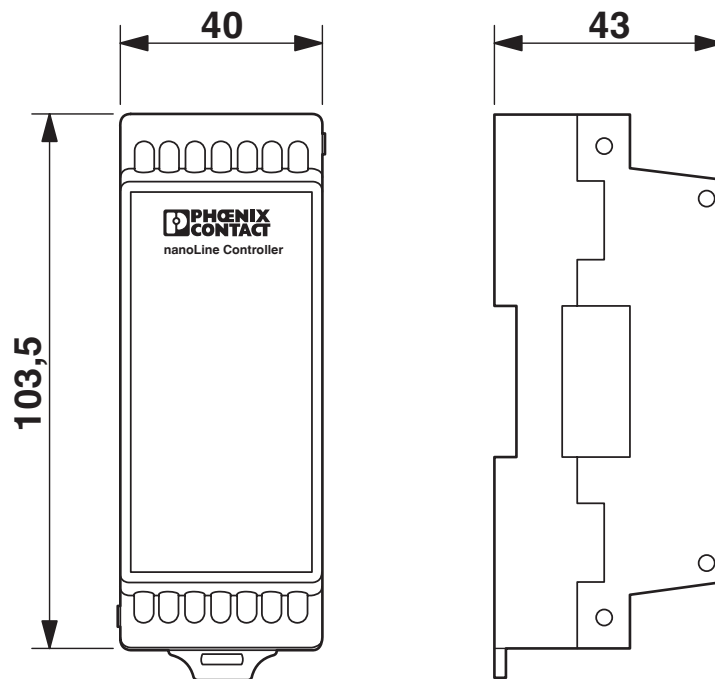
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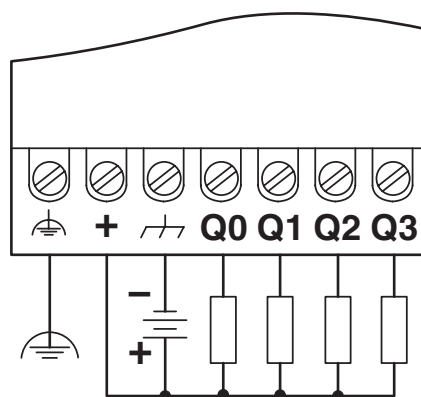


## Drawings

Dimensional drawing



Connection diagram



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## Approvals

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**UL Listed**  
Approval ID: FILE E 238705



**cUL Listed**  
Approval ID: FILE E 238705

**cULus Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242216 |
| ECLASS-12.0 | 27242216 |
| ECLASS-13.0 | 27242216 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001417 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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 |