

# NLC-050-024D-06I-04QTP-00A - Base unit



2701027

<https://www.phoenixcontact.com/us/products/2701027>

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24 V DC Nanoline base unit. Equipped with 6 digital input and 4 PNP digital output channels. Additional I/O channels can be added using a maximum of three I/O extension modules. Optional communication modules provide network or serial connectivity. Optional Operator Panel provides user interface. Programming is via nanoNavigator.

## Your advantages

- Basic unit has integrated digital inputs, relay outputs, and analog inputs, including high-speed counters
- An operating panel can be optionally integrated in the basic unit or installed on a wall in a decentralized manner
- Intuitive programming language with options for flowcharts and ladder diagrams

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2701027                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DR11                           |
| Product key                          | DRACAA                         |
| GTIN                                 | 4046356325387                  |
| Weight per piece (including packing) | 298.1 g                        |
| Weight per piece (excluding packing) | 294.8 g                        |
| Customs tariff number                | 85371098                       |
| Country of origin                    | IN                             |

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## Technical data

### Product properties

|                |           |
|----------------|-----------|
| Product type   | Base unit |
| Product family | Nanoline  |

### Electrical properties

#### Supply

|                             |   |
|-----------------------------|---|
| Supply voltage              | 24 V DC (Power available to the I/O and Communications modules) |
| Supply voltage range        | 19.2 V DC ... 30 V DC   |
| Power supply connection     | Screw connection  |
| Max. current consumption    | 250 mA  |
| Typical current consumption | 92 mA   |

#### Real-time clock

|                |                 |
|----------------|-----------------|
| Realtime clock | Optional module |
|----------------|-----------------|

### Input data

#### Digital:

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Input name                        | Digital inputs                      |
| Description of the input          | EN 61131-2 type 1 NPN/PNP           |
| Number of inputs                  | 6                                   |
| Connection method                 | Screw connection                    |
| Input voltage                     | 24 V DC                             |
| 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 mA (Off)      |
| Typical response time             | 60 $\mu$ s (on)<br>70 $\mu$ s (OFF) |

### Output data

#### Digital:

|  |                                       |
|--|---------------------------------------|
| Output name  | Digital outputs                       |
| Output description                                 | PNP outputs                           |
| Connection method                                  | Screw connection                      |
| Number of outputs                                  | 4                                     |
| Protective circuit                                 | Short-circuit and overload protection |
| Output voltage                                     | 24 V DC                               |
| Maximum output current per channel                 | 500 mA                                |
| Maximum output current per module / terminal block | 2 A                                   |
| Maximum output current per module                  | 2 A                                   |

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

## Connection data

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

## Interfaces

### Operator Panel

|                   |                 |
|-------------------|-----------------|
| Connection method | RJ45 / COMBICON |
|-------------------|-----------------|

### RS-232

|                   |        |
|-------------------|--------|
| Connection method | Slot 1 |
|-------------------|--------|

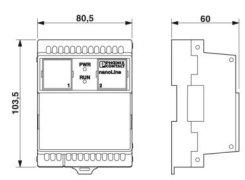
### USB

|                   |        |
|-------------------|--------|
| Connection method | Slot 1 |
|-------------------|--------|

### Realtime Clock

|                   |        |
|-------------------|--------|
| Connection method | Slot 2 |
|-------------------|--------|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 80.5 mm  |
| Height              | 103.5 mm   |
| Depth               | 60 mm  |

## Material specifications

|       |       |
|-------|-------|
| Color | white |
|-------|-------|

## Environmental and real-life conditions

### Ambient conditions

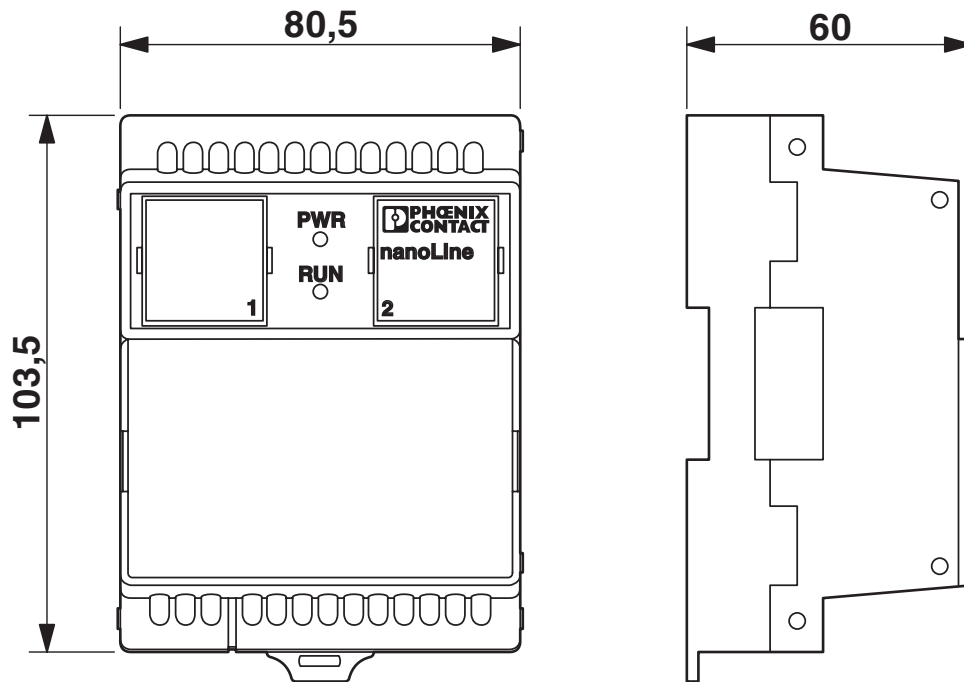
|  |                  |
|--|------------------|
| Degree of protection                     | IP20             |
| Ambient temperature (operation)          | -25 °C ... 60 °C |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C |
| Permissible humidity (operation)         | 90 %           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

## Mounting

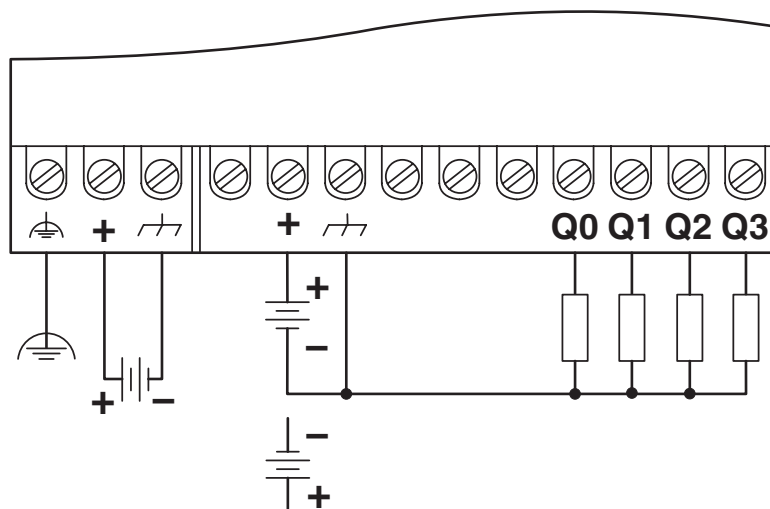
|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Drawings

Dimensional drawing



Connection diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122329 |
|-------------|----------|

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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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