

## Base unit - NLC-050-024D-06I-04QRD-05A - 2701043

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24 V DC Nanoline base unit. Equipped with 6 digital input and 4 relay 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.

### Product Features

- An operator panel can be integrated in the basic unit or installed remotely on a panel as an option
- Intuitive programming language with options for flowcharts and ladder diagrams
- Basic unit has integrated digital inputs, relay outputs, and analog inputs, including high-speed counters



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 320.0 g  |
| Custom tariff number                 | 85371099 |
| Country of origin                    | India    |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

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

#### 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 %             |

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### Technical data

#### Supply

|                             |   |
|-----------------------------|---|
| Power supply connection     | Screw connection  |
| Supply voltage              | 24 V DC (Power available to the I/O and Communications modules) |
| Supply voltage range        | 19.2 V DC ... 30 V DC   |
| Max. current consumption    | 250 mA  |
| Typical current consumption | 150 mA  |

#### Software interfaces

|                  |                      |
|------------------|----------------------|
| Programming tool | nanoNavigator 1 or 2 |
|------------------|----------------------|

#### Digital inputs

|  |                           |
|--|---------------------------|
| Input name                               | Digital inputs            |
| Description of the input                 | EN 61131-2 type 1 NPN/PNP |
| Connection method                        | Screw connection          |
| Number of inputs                         | 6                         |
| Typical response time                    | 60 µs (on)<br>70 µs (off) |
| 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 <sub>IN</sub> | 5 mA DC (On)              |

#### Digital outputs

|  |                                       |
|--|---------------------------------------|
| Output name  | Relay output                          |
| Output description                                 | Relay output                          |
| Connection method                                  | Screw connection                      |
| Number of outputs                                  | 4                                     |
| Protective circuit                                 | Short-circuit and overload protection |
| Maximum output current per channel                 | 5 A                                   |
| Maximum output current per module / terminal block | 20 A                                  |
| Maximum output current per module                  | 5 A                                   |
| Nominal load, ohmic                                | 600 W (@ 24 ohms)                     |

#### General

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

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250315 |
| eCl@ss 4.1 | 27250315 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27242216 |
| eCl@ss 5.1 | 27242216 |
| eCl@ss 6.0 | 27242216 |
| eCl@ss 7.0 | 27242216 |
| eCl@ss 8.0 | 27242216 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001417 |
| ETIM 3.0 | EC001417 |
| ETIM 4.0 | EC001417 |
| ETIM 5.0 | EC001417 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 43201404 |

### Approvals

#### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

|   |
|---|
| UL Listed  |
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## Approvals

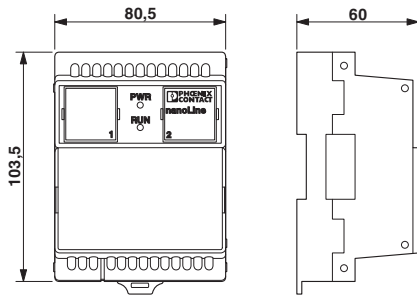
cUL Listed

EAC

cULus Listed

## Drawings

Dimensional drawing



Connection diagram

