

## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




100-240 V AC Nanoline base unit. Equipped with 8 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.

### Your advantages

- 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
GTIN	 4 046356 325349
GTIN	4046356325349
Weight per Piece (excluding packing)	321.800 g
Custom tariff number	85371098
Country of origin	India
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Width	80.5 mm
Height	103.5 mm
Depth	60 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %

#### Interfaces

Interface	Operator Panel
Connection method	RJ45/COMBICON
Interface	RS-232
Connection method	Slot 1

# Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

## Technical data

### Interfaces

Interface	USB
Connection method	Slot 1
Interface	Realtime Clock
Connection method	Slot 2

### Supply

Power supply connection	Screw connection
Supply voltage	100 V AC
Supply voltage range	100 V AC ... 240 V AC
Typical current consumption	70 mA (@ 230 V AC)

### 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	8
Typical response time	20 ms
Nominal input voltage $U_{IN}$	230 V AC
Nominal input current at $U_{IN}$	0.17 mA AC (On)
Input voltage range "0" signal	0 V AC ... 25 V AC
Input voltage range "1" signal	80 V AC ... 250 V AC

### 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
---------------	-------------------

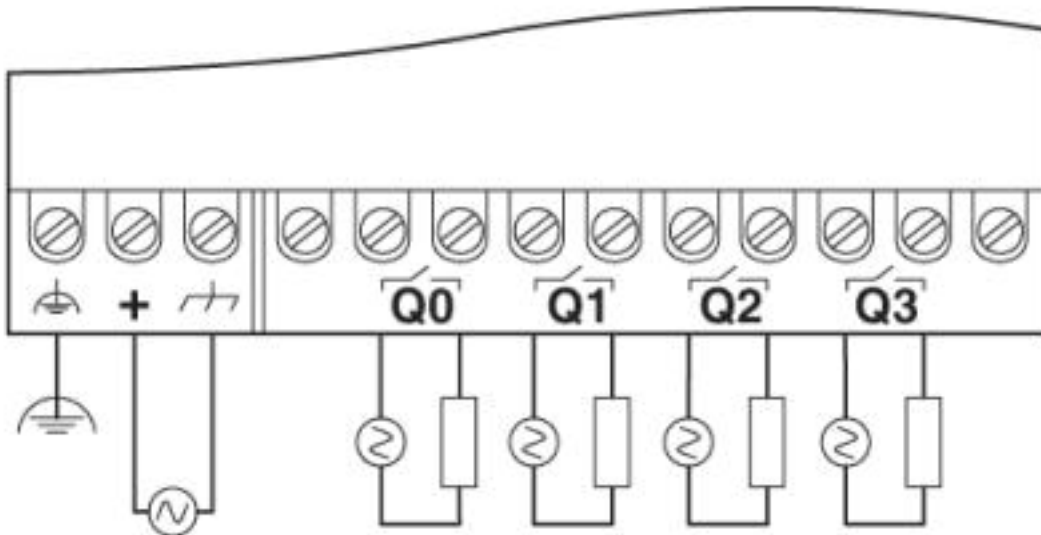
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

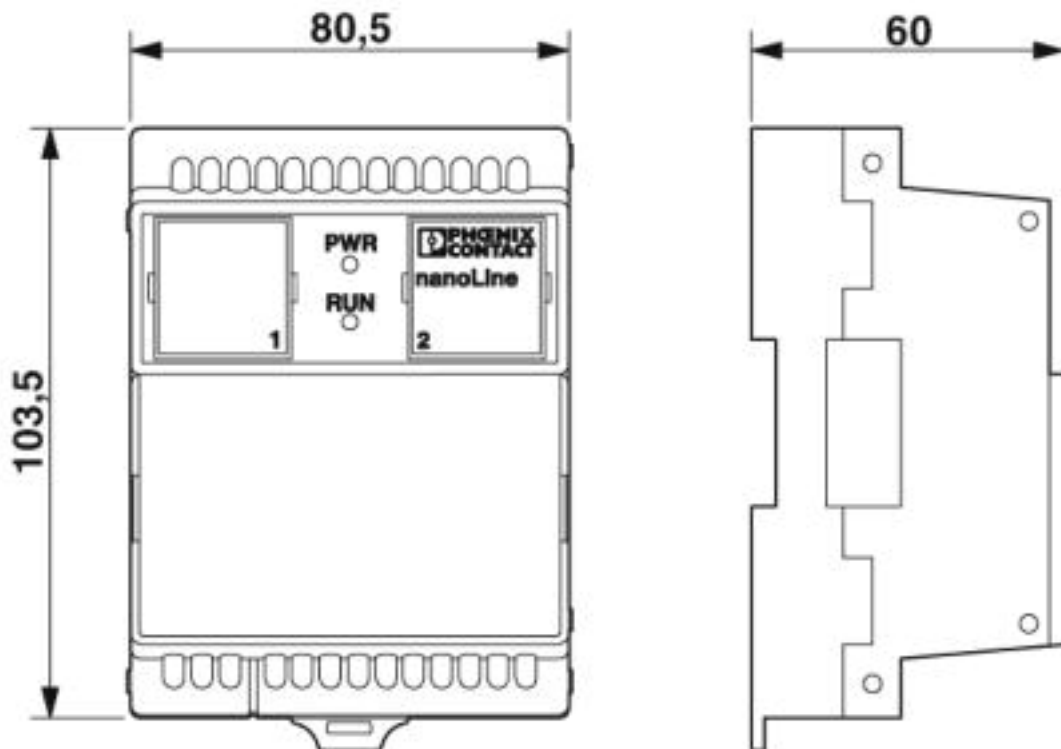
# Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

## Drawings

Connection diagram



Dimensional drawing



## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

### Classifications

#### eCl@ss

eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242216
eCl@ss 8.0	27242216
eCl@ss 9.0	27242216

#### ETIM

ETIM 2.0	EC001417
ETIM 3.0	EC001417
ETIM 4.0	EC001417
ETIM 5.0	EC001417
ETIM 6.0	EC001417
ETIM 7.0	EC001417

#### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39122329
UNSPSC 18.0	39122329
UNSPSC 19.0	39122329
UNSPSC 20.0	39122329
UNSPSC 21.0	39122329

### Accessories

#### Accessories

##### Communication module

nanoLC module - NLC-MOD-RS232 - 2701179



RS-232 connection for data transfer or software configuration

## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

### Accessories

Option module - NLC-MOD-RS485 - 2701182



RS-485 connection for data transfer or software configuration

---

nanoLC module - NLC-MOD-USB - 2701195



Serial connection to PC's USB port for data transfer or software configuration

---

Communication module - NLC-COM-ENET-MB1 - 2701124



Ethernet communication module. Allows the Nanoline controller to be connected to an Ethernet, operating as a Modbus TCP Server.

---

Communication module - NLC-COM-GSM - 2701344



GSM communication module. Allows SMS messaging to and from the Nanoline controller when connected to the GSM network.

---

### Cover

Covering hood - NLC-MOD-CAP-PXC - 2701292



Replacement cover for slot 2 in base unit.

---

## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

### Accessories

Covering hood - NLC-MOD-CAP - 2701289



Replacement cover for slot 1 in base unit.

---

### EMC choke

EMC core - NLC-EMC-PWR-01 - 2701070

EMC choke to reduce conducted emissions

---

### Extension module

I/O extension module - NLC-IO-06I-04QTP-01A - 2701072



I/O extension module for use with Nanoline base unit. Equipped with 6 digital input and 4 PNP digital output channels. A maximum of three I/O extension modules can be attached to a base unit.

---

I/O extension module - NLC-IO-06I-04QTN-01A - 2701085



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.

---

I/O extension module - NLC-IO-03I-04QRD-05A - 2701328



I/O extension module for use with Nanoline 24 V DC base unit. Equipped with 3 digital input and 4, 5 A relay output channels. A maximum of three I/O extension modules can be attached to a base unit.

---

## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

### Accessories

I/O extension module - NLC-IO-4AI - 2701098



I/O extension module for use with Nanoline base unit. Equipped with 4 analog input channels. A maximum of three I/O extension modules can be attached to a base unit.

---

Option module - NLC-MOD-RTC - 2701153



Real-time clock

---

### Mounting material

Mounting kit - NLC-OP1-MKT - 2701140



Mounting kit

---

### Operator interface

Operator terminal - NLC-OP1-LCD-032-4X20 - 2701137



User interface for Nanoline controllers. Mounts directly on the base unit. Can be mounted remotely using the mounting kit.

---

### Programming cable

Cable - NLC-PC/SERIAL-CBL 2M - 2701234



Cable, serial, 9-pos. D-SUB to RJ11/12

## Base unit - NLC-050-100A-08I-04QRA-05A - 2701069

### Accessories

Cable - NLC-PC/USB-CBL 2M - 2701247



Cable, serial

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>