

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.

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	
GTIN	4046356325363
Weight per Piece (excluding packing)	320.000 g
Custom tariff number	85371098
Country of origin	India

Technical data

Note

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

Width	80.5 mm
Height	103.5 mm
Depth	60 mm

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

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %

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
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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) 70 µs (OFF)
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	5 mA DC (On)
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC

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
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Environmental Product Compliance

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

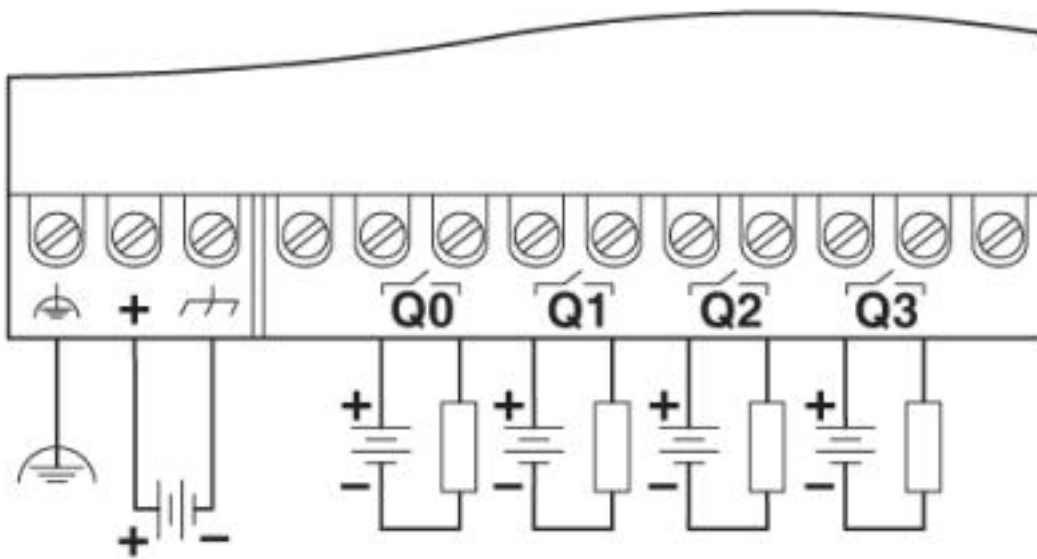
Technical data

Environmental Product Compliance

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

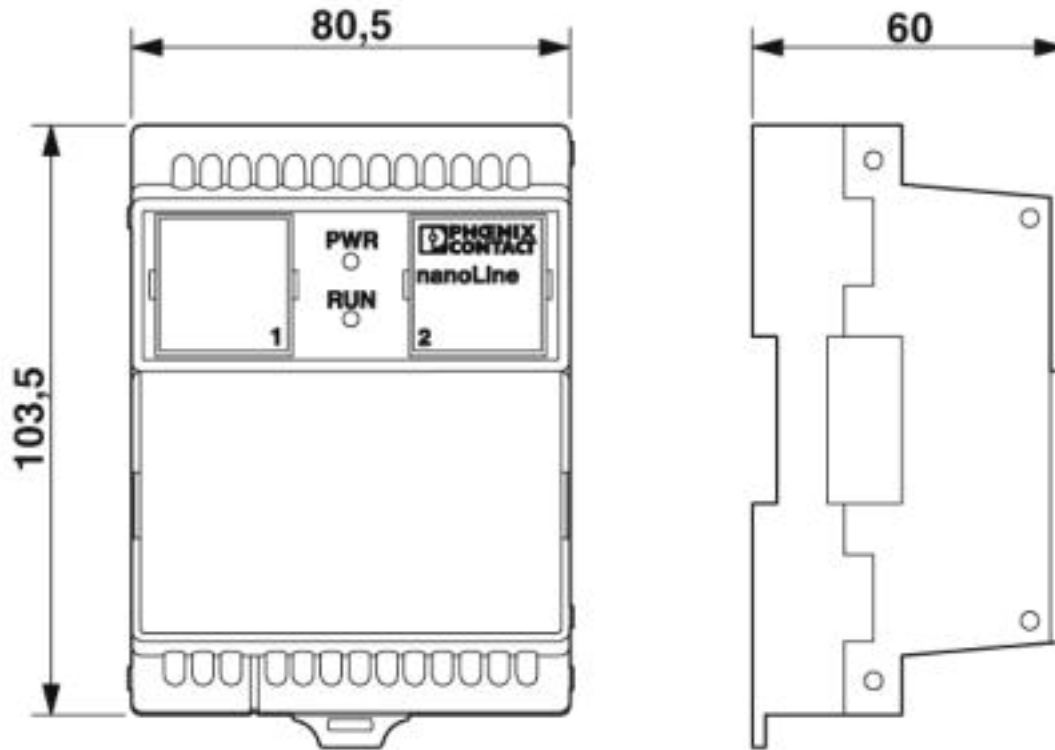
Drawings

Connection diagram



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

Dimensional drawing



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

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

Classifications

ETIM

ETIM 7.0	EC001417
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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

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		EAC-Zulassung
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Base unit - NLC-050-024D-06I-04QRD-05A - 2701043

Approvals

cULus Listed



Accessories

Accessories

Communication module

nanoLC module - NLC-MOD-RS232 - 2701179



RS-232 connection for data transfer or software configuration

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.

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

Accessories

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.

Covering hood - NLC-MOD-CAP - 2701289



Replacement cover for slot 1 in base unit.

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.

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

Accessories

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.

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

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

Accessories

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

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



Cable, serial