

Base unit - NLC-050-024D-06I-04QTN-00A - 2701030

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

Why buy this product

- ✓ 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

RoHS

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	300.800 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
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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

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Technical data

Ambient conditions

Permissible humidity (operation)	90 %
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Interfaces

Interface	Operator Panel
Connection method	RJ45/COMBICON
Interface	RS-232
Connection method	Slot 1
Interface	USB
Connection method	Slot 1
Interface	Realtime Clock
Connection method	Slot 2

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	92 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)
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)

Digital outputs

Output name	Digital outputs
Output description	NPN outputs
Connection method	Screw connection
Number of outputs	4
Protective circuit	Short-circuit and overload protection

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Technical data

Digital outputs

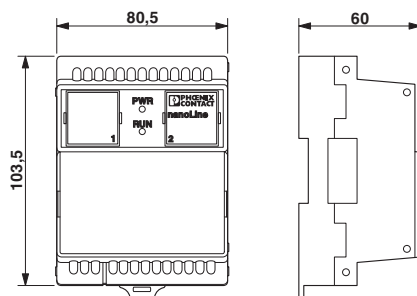
Output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	2 A
Maximum output current per module	2 A
Nominal load, inductive	12 VA ((1.2H))
Nominal load, lamp	12 W
Nominal load, ohmic	12 W

General

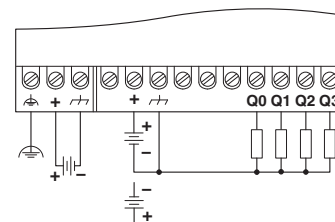
Mounting type	DIN rail mounting
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Drawings

Dimensional drawing



Connection diagram



Classifications

eCl@ss

eCl@ss 4.0	27250315
eCl@ss 4.1	27250315
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
eCl@ss 9.0	27242216

ETIM

ETIM 2.0	EC001417
ETIM 3.0	EC001417
ETIM 4.0	EC001417

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Classifications

ETIM

ETIM 5.0	EC001417
ETIM 6.0	EC001417

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39122329

Approvals

Approvals

Approvals

UL Listed / EAC

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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EAC		EAC-Zulassung
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Accessories

Accessories

Communication module

Base unit - NLC-050-024D-06I-04QTN-00A - 2701030

Accessories

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.

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

Base unit - NLC-050-024D-06I-04QTN-00A - 2701030

Accessories

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.

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.

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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

Base unit - NLC-050-024D-06I-04QTN-00A - 2701030

Accessories

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