

base unit - NLC-055-024D-08I-04QRD-05A - 2700464

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24 V DC Nanoline base unit. Equipped with 8 digital inputs, 2 analog (0-10 V) inputs 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

package_quantity	1
GTIN	4046356576611

Technical data

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 %

Interfaces

Interface	Operator Panel
Connection method	RJ45 / Combicon
Interface	V.24 (RS-232)
Connection method	Slot 1
Interface	USB
Connection method	Slot 1

Supply

Power supply connection	Screw connection
Supply voltage	24 V DC (Power available to the I/O and Communications modules)

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Technical data

Supply

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 3 or above
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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	8
Typical response time	20 ms (on)
Typical response time	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 _{IN}	5 mA DC (On)

Digital outputs

Output name	Relay output
Output description	Relay output
Connection method	Screw connection
Number of outputs	4
Protective circuit	External protection required
Nominal output voltage	24 V DC
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)

Analog inputs

Number of inputs	2
Connection method	Screw connection
Resolution A/D	12 bit (monotonic)
Limit frequency (3 dB)	1 Hz (3 dB)
Type of protection	Transient voltage suppression
Measuring principle	Successive approximation
Voltage input signal	0 V DC ... 10 V DC
Input resistance of voltage input	20 kΩ
Precision	2 % (full-scale)
Input filter	Digital

Counter inputs

Number of inputs	2
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Technical data

Counter inputs

Input frequency	6 kHz
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General

Mounting type	DIN rail
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classifications

eCl@ss

eCl@ss 4.0	27240101
eCl@ss 4.1	27240101
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 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

UL Listed /

Approval details



accessories

Cover

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accessories

NLC-MOD-CAP-PXC - 2701292



NLC-MOD-CAP - 2701289



Extension module

NLC-IO-06I-04QTP-01A - 2701072



NLC-IO-06I-04QTN-01A - 2701085



NLC-IO-03I-04QRD-05A - 2701328



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accessories

NLC-IO-4AI - 2701098



NLC-IO-2AI-2AO-01 - 2701040



Operator interface

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



Mounting material

NLC-OP1-MKT - 2701140



Communication module

NLC-MOD-RS232 - 2701179



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accessories

NLC-MOD-RS485 - 2701182



NLC-MOD-USB - 2701195



NLC-COM-ENET-MB1 - 2701124



NLC-COM-GSM - 2701344



Programming cable

NLC-PC/SERIAL-CBL 1M - 2701234



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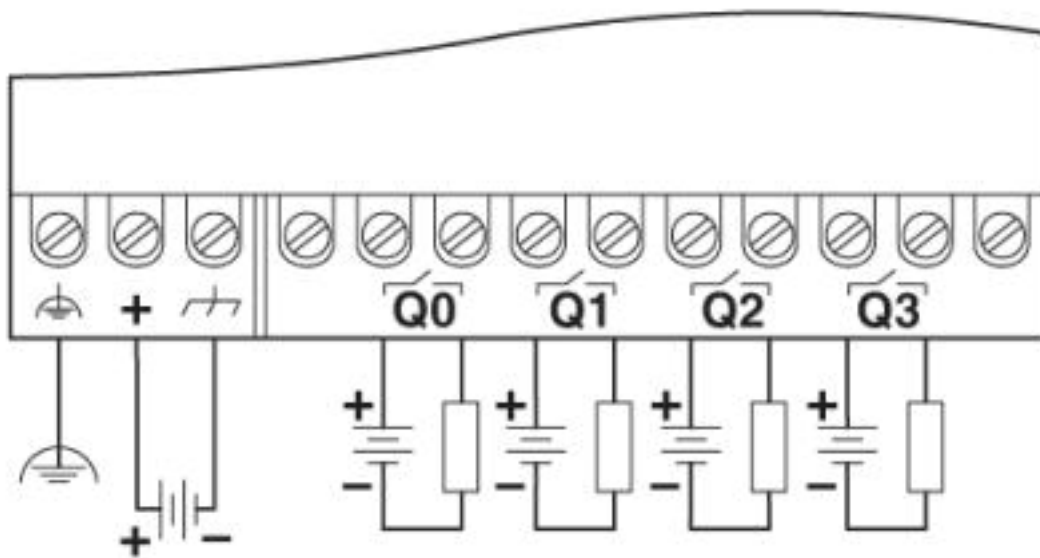
accessories

NLC-PC/USB-CBL 2M - 2701247



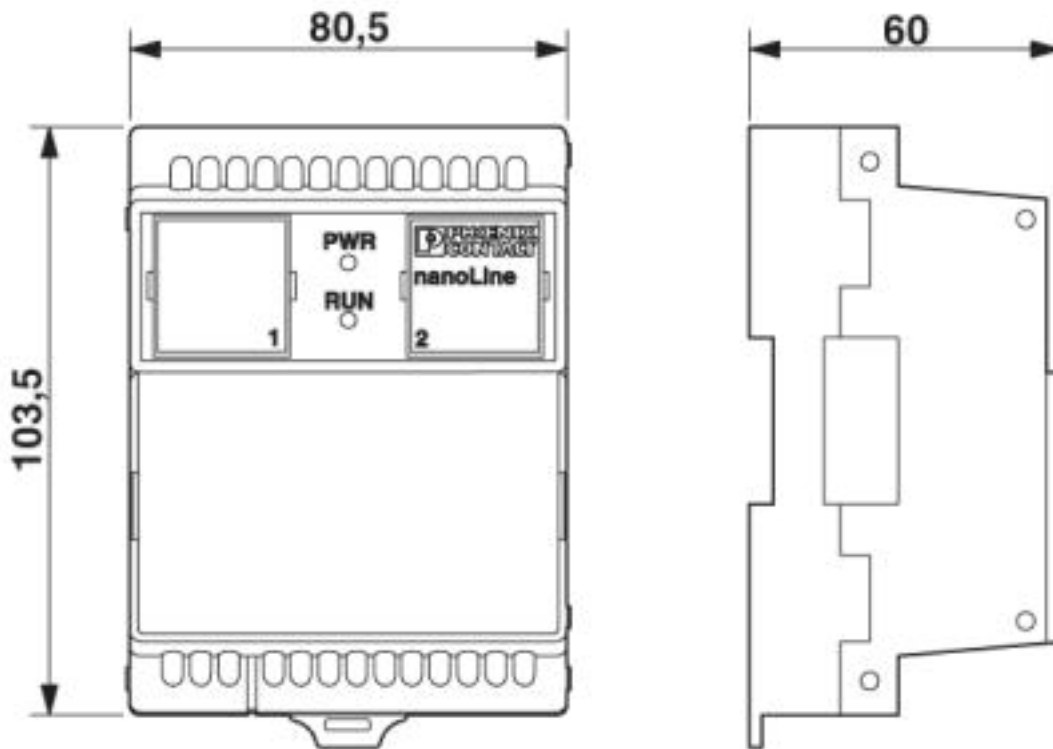
Drawings

Connection diagram



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Dimensioned drawing



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