

# NLC-055-024D-08I-04QTP-00A - Base unit



2700453

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24 V DC Nanoline base unit. Equipped with 8 digital inputs, 2 analog (0-10 V) inputs and 4 PNP 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.

## Commercial data

Item number	2700453
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR11
Product key	DRACAA
GTIN	4046356646536
Weight per piece (including packing)	335.6 g
Weight per piece (excluding packing)	321.5 g
Customs tariff number	85371098
Country of origin	IN

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## Technical data

### Product properties

Product type	Base unit
Product family	Nanoline

### System properties

#### System requirements

Engineering tool	nanoNavigator 3 or above
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### Electrical properties

#### Supply

Supply voltage	24 V DC (Power available to the I/O and Communications modules)
Supply voltage range	19.2 V DC ... 30 V DC
Power supply connection	Screw connection
Max. current consumption	250 mA
Typical current consumption	100 mA

#### Real-time clock

Realtime clock	Yes (battery-backed)
Description realtime clock	±2 s/day @ 25°C ±4 s/day @ -20 °C ... +60 °C Lithium BR2330

### Input data

#### Analog:

Description of the input	Analog input
Number of inputs	2
A/D converter resolution	12 bit (monotonic)
Connection technology	Screw connection
Voltage input signal	0 V DC ... 10 V DC
Input resistance of voltage input	20 kΩ
Input filter	digital
Limit frequency (3 dB)	1 Hz (3 dB)
Measuring principle	Successive approximation
Protective circuit	Transient voltage suppression

#### Digital:

Input name	Digital inputs
Description of the input	EN 61131-2 type 1 NPN/PNP
Number of inputs	8
Connection method	Screw connection
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC

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Nominal input voltage $U_{IN}$	24 V DC
Nominal input current at $U_{IN}$	5 mA DC (On)
	< 100 mA (Off)
Typical response time	60 $\mu$ s (on)
	70 $\mu$ s (OFF)

Counter:

Number of inputs	2
Input frequency	6 kHz

## Output data

Digital:

Output name	Digital outputs
Output description	PNP outputs
Connection method	Screw connection
Number of outputs	4
Protective circuit	Short-circuit and overload protection
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	2 A
Nominal output voltage	24 V DC
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Maximum operating frequency with ohmic nominal load	100 Hz

## Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## Interfaces

Operator Panel

Connection method	RJ45 / COMBICON
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RS-232

Connection method	Slot 1
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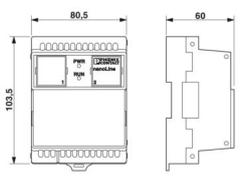
USB

Connection method	Slot 1
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## Dimensions

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Dimensional drawing		
Width		80.5 mm
Height		103.5 mm
Depth		60 mm

## Material specifications

Color	white
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## Environmental and real-life conditions

### 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 %
Permissible humidity (storage/transport)	90 %

## Mounting

Mounting type	DIN rail mounting
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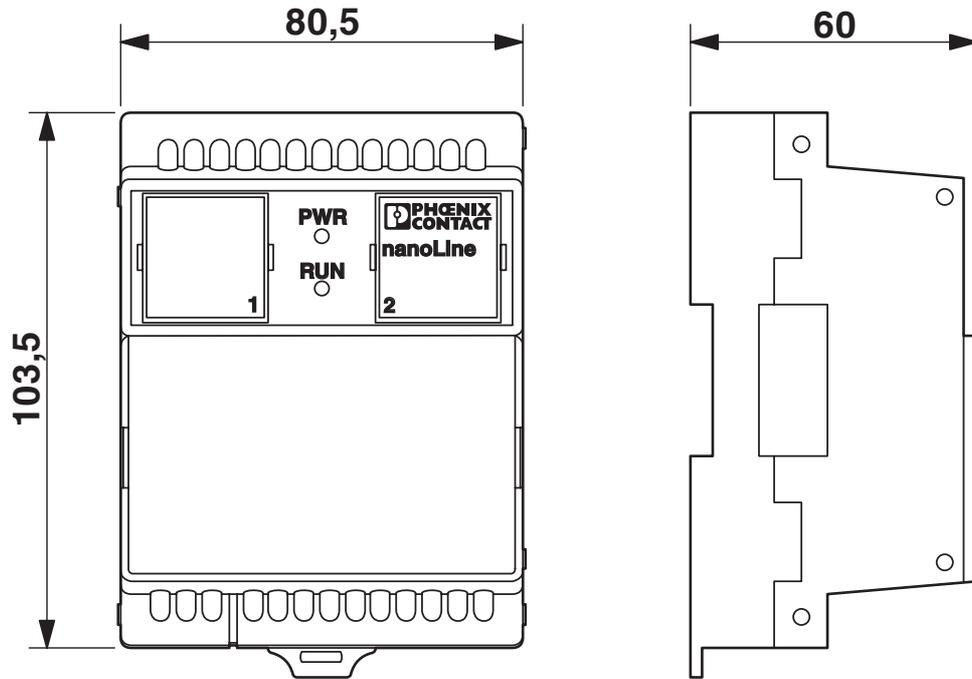


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## Drawings

Dimensional drawing



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## Approvals

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**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0

27242216

### ETIM

ETIM 9.0

EC001417

### UNSPSC

UNSPSC 21.0

39122300

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4956f986-b7c6-44ea-9943-85ae028ad01b

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