

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



2700464

<https://www.phoenixcontact.com/us/products/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.

Your advantages

- An operating panel can be optionally integrated in the basic unit or installed on a wall in a decentralized manner
- 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

Commercial data

Item number	2700464
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR11
Product key	DRACAA
GTIN	4046356576611
Weight per piece (including packing)	336.5 g
Weight per piece (excluding packing)	336.5 g
Customs tariff number	85371098
Country of origin	IN

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	150 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	20 ms (on)
	70 μ s (OFF)

Counter:

Number of inputs	2
Input frequency	6 kHz

Output data

Digital:

Output name	Relay output
Output description	Relay output
Connection method	Screw connection
Number of outputs	4
Protective circuit	External protection required
Maximum output current per channel	5 A
Maximum output current per module / terminal block	20 A
Maximum output current per module	5 A
Nominal output voltage	24 V DC
Nominal load, ohmic	600 W (@ 24 ohms)
Maximum operating frequency with ohmic nominal load	0.5 Hz (at full load)
Signal delay	10 ms (@ 20 °C (excludes bounce))

Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 2.5 mm ²
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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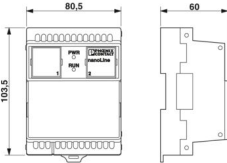
Dimensions

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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

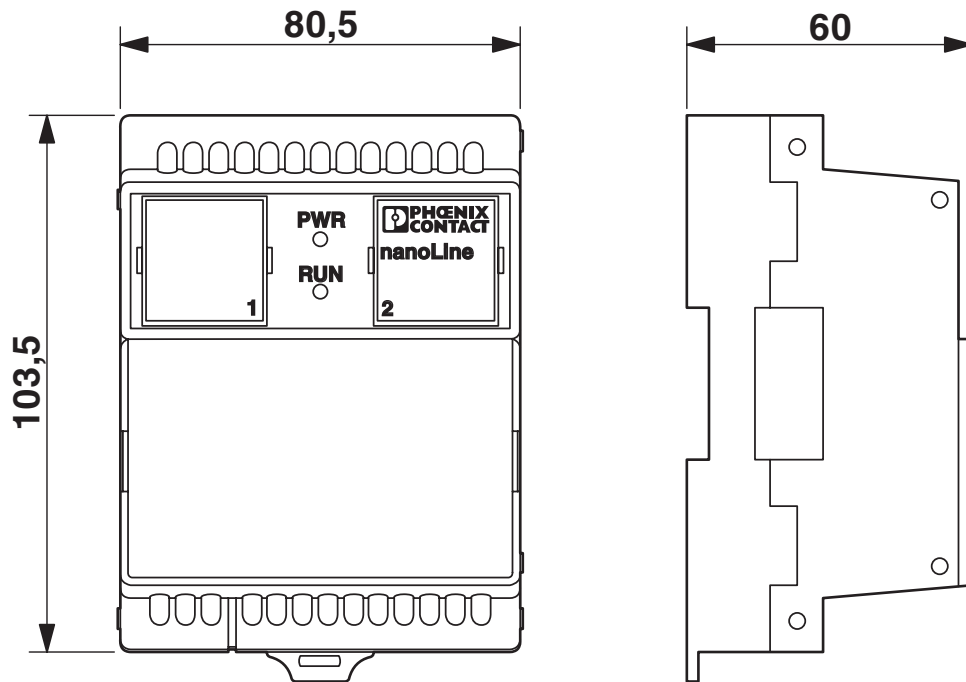
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %
Permissible humidity (storage/transport)	90 %

Mounting

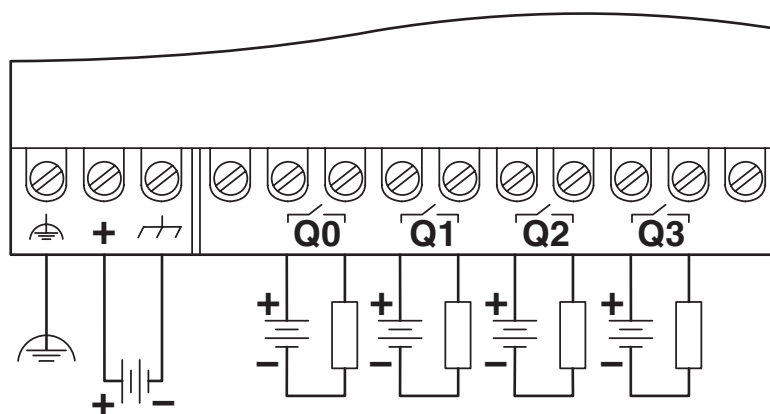
Mounting type	DIN rail mounting
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Drawings

Dimensional drawing



Connection diagram



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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
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ETIM

ETIM 9.0	EC001417
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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	d142a257-46e6-4429-8569-78d99a580adc