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

2700464

https://www.phoenixcontact.com/gb/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 operating 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

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2700464
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRACAA
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 limits

Number of local bus devices that can be connected	3

Functionality

Programming tool	nanoNavigator 3 or above

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

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
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 µs (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 mm² ... 2.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12

Interfaces

Operator Panel

Connection method	RJ45 / COMBICON

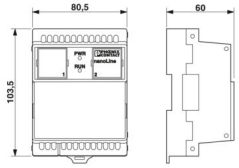
RS-232

Connection method	Slot 1

USB

Connection method	Slot 1

Dimensions

Dimensional drawing	
Width	80.5 mm
Height	103.5 mm
Depth	60 mm

Material specifications

Color	white

Environmental and real-life conditions

Ambient conditions

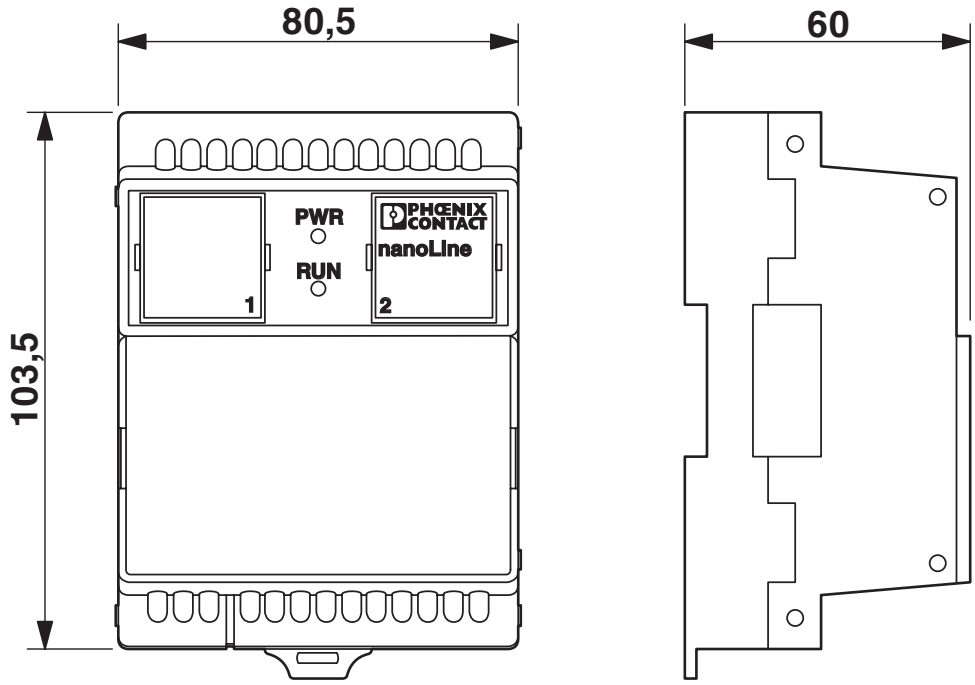
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %
Permissible humidity (storage/transport)	90 %

Mounting

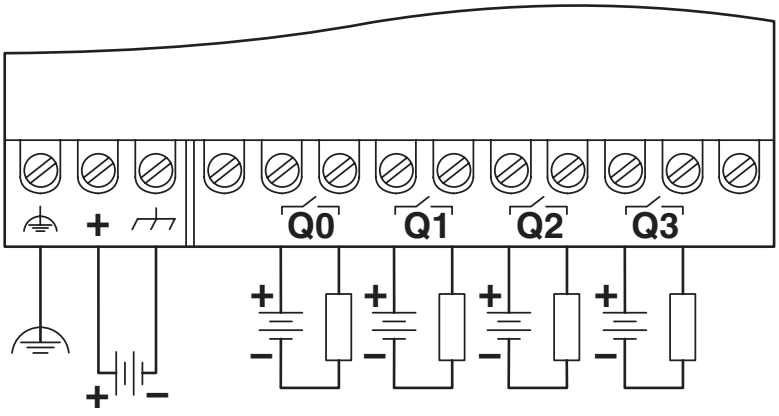
Mounting type	DIN rail mounting

Drawings

Dimensional drawing



Connection diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2700464

UL Listed
Approval ID: E238705

cUL Listed
Approval ID: E238705

Classifications

ECLASS

ECLASS-13.0	27242216

ETIM

ETIM 9.0	EC001417

UNSPSC

UNSPSC 21.0	39122300

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.)	1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)(CAS: 110-71-4)
	Lead(CAS: 7439-92-1)
SCIP	d142a257-46e6-4429-8569-78d99a580adc

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