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

2701027

https://www.phoenixcontact.com/us/products/2701027

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



24 V DC Nanoline base unit. Equipped with 6 digital input 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 operating panel provides user interface. Programming is via nanoNavigator.

Your advantages

- Basic unit has integrated digital inputs, relay outputs, and analog inputs, including high-speed counters
- 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

Commercial data

Item number	2701027
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR11
Product key	DRACAA
GTIN	4046356325387
Weight per piece (including packing)	298.1 g
Weight per piece (excluding packing)	294.8 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 1 or 2

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	92 mA

Real-time clock

Realtime clock	Optional module

Input data

Digital:

Input name	Digital inputs
Description of the input	EN 61131-2 type 1 NPN/PNP
Number of inputs	6
Connection method	Screw connection
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)
	< 100 mA (Off)
Typical response time	60 µs (on)
	70 µs (OFF)

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
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
Maximum operating frequency with ohmic nominal load	100 Hz

Connection data

Connection method	Screw connection

Interfaces

Operator Panel

Connection method	RJ45 / COMBICON

RS-232

Connection method	Slot 1

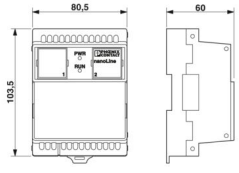
USB

Connection method	Slot 1

Realtime Clock

Connection method	Slot 2

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

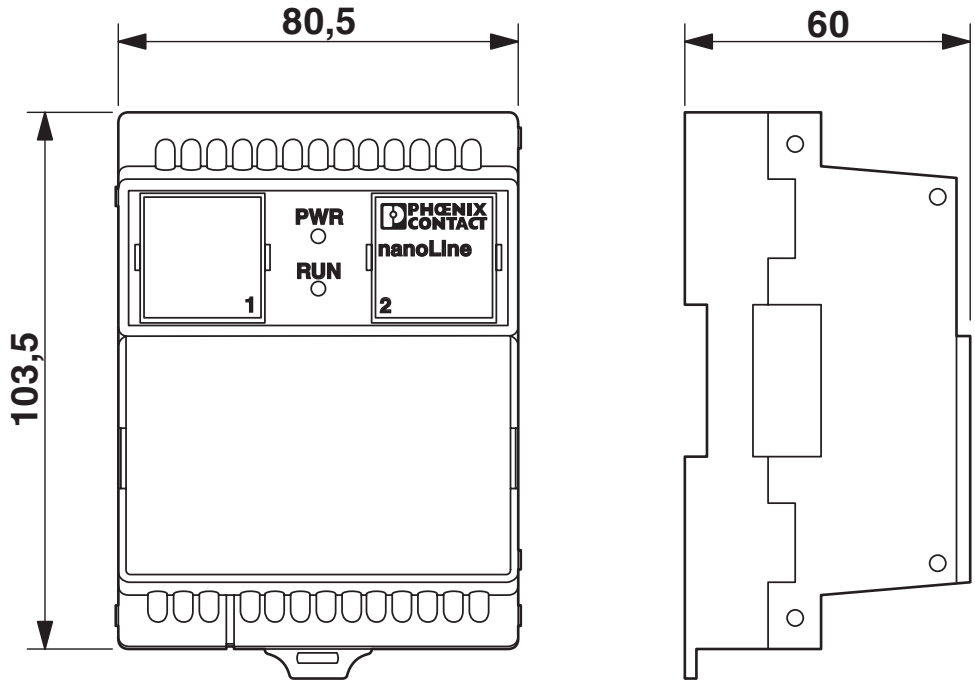
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %
Permissible humidity (storage/transport)	90 %

Mounting

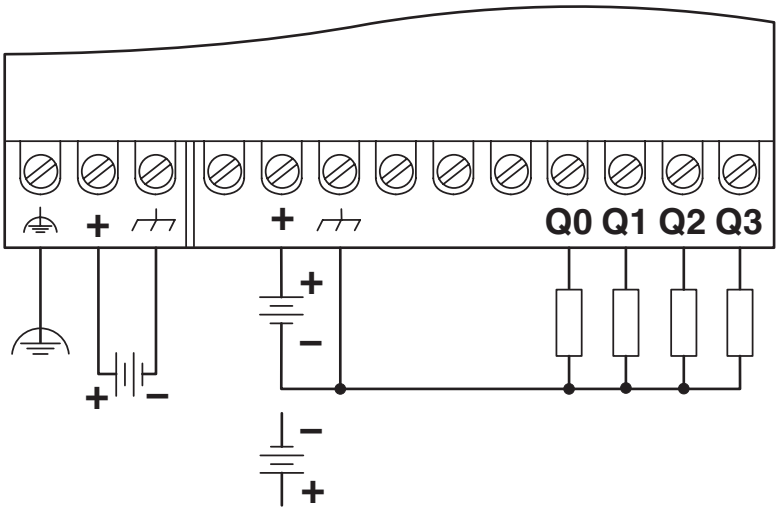
Mounting type	DIN rail mounting

Drawings

Dimensional drawing



Connection diagram



Classifications

UNSPSC

UNSPSC 21.0	39122329

Environmental product compliance

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.)	No substance above 0.1 wt%

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com