

Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

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 4 digital input and 2 relay output channels. Two inputs may be configured as analog inputs and two may be configured as high-speed counters. Accepts one additional expansion unit. Onboard RJ11 connector provides programming, serial connectivity and communication to remote operator panel. Programming is via nanoNavigator.

Commercial Data

Item number	2702031
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	D01
Product Key	DRACAA
Catalog Page	Page 464 (C-8-2015)
GTIN	4046356949521
Weight per Piece (including packing)	175.5 g
Weight per Piece (excluding packing)	172.9 g
Customs tariff number	85371098
Country of origin	IN

Technical Data

Product properties

Product type	Base unit
--------------	-----------

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	81 mA
Typical current consumption	74 mA

Input data

Analog

Description of the input	Analog input
Number of inputs	2 (configurable)
A/D converter resolution	10 bit
Connection technology	Screw connection
Current input signal	0 mA ... 20 mA 4 mA ... 20 mA
Input resistance current input	500 Ω
Voltage input signal	0 V DC ... 10 V DC
Input resistance of voltage input	200 kΩ
Input filter	Digital
Limit frequency (3 dB)	0.5 Hz (3 dB)
Measuring principle	Successive approximation
Protective circuit	Polarity reversal

Digital

Input name	Digital inputs
Description of the input	PNP
Number of inputs	4
Connection method	Screw connection
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Nominal input current at U_{IN}	1.2 mA (Channel 1 and 2) 0.13 mA (Channel 3 and 4)
Typical response time	10 μs (Channel 1 and 2) 2 ms (Channel 3 and 4)

Counter

Description of the input	High-speed counter
--------------------------	--------------------

Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

Number of inputs	2 (configurable)
Input frequency	10 kHz

Output data

Digital

Output name	Relay output
Output description	Relay output
Connection method	Screw connection
Number of outputs	2
Maximum output current per channel	5 A
Maximum output current per module / terminal block	10 A
Maximum output current per module	10 A

Connection data

Connection method	Screw connection
-------------------	------------------

Interfaces

Operator Panel

Connection method	RJ45/COMBICON
-------------------	---------------

RS-232

Connection method	Slot 1
-------------------	--------

USB

Connection method	Slot 1
-------------------	--------

System properties

INTERBUS-Master

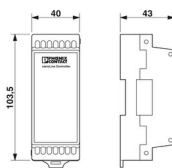
Number of supported branch terminals with remote bus branch	1 (I/O modules)
---	-----------------

Software

System requirements

Engineering tool	nanoNavigator 4.2 or above
------------------	----------------------------

Dimensions

Dimensional drawing	
Width	40 mm
Height	103.5 mm
Depth	43 mm

Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

Material specifications

Color	white
-------	-------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %
Permissible humidity (storage/transport)	90 %

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

Base unit - NLC-035-024D-04I-02QRD-05A

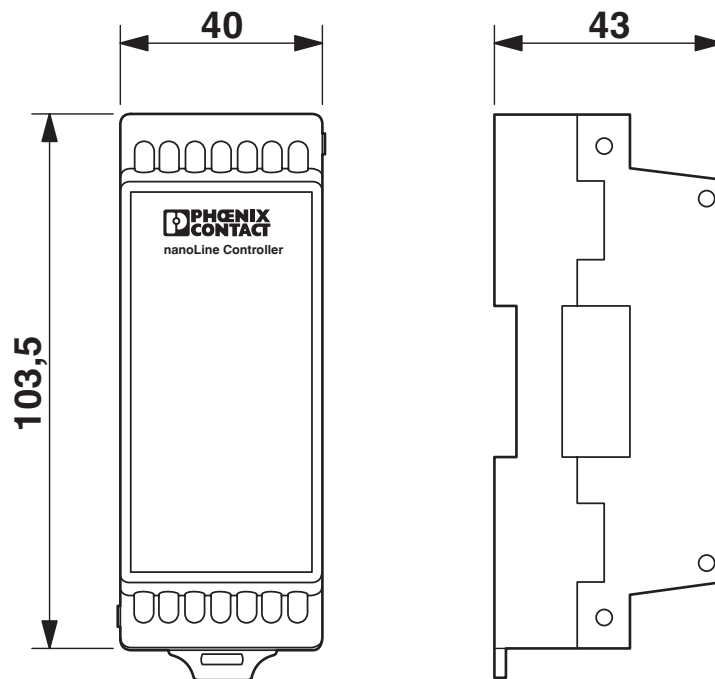
2702031

<https://www.phoenixcontact.com/us/products/2702031>



Drawings

Dimensional drawing



Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

Classifications

ECLASS

ECLASS-9.0	27242216
ECLASS-10.0.1	27242216
ECLASS-11.0	27242216

ETIM

ETIM 7.0	EC001417
----------	----------

UNSPSC

UNSPSC 21.0	39122329
-------------	----------

Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Base unit - NLC-035-024D-04I-02QRD-05A



2702031

<https://www.phoenixcontact.com/us/products/2702031>

Accessories

I/O extension module

I/O extension module - NLC-IOX-04I-02QRD-05A - 2702032

<https://www.phoenixcontact.com/us/products/2702032>



I/O extension module for use with NLC-035... and NLC-040 base units. Equipped with 4 digital input and 2 relay output channels. A maximum of one I/O extension modules can be attached to the base unit.

Cable

Cable - NLC-USB TO SERIAL-CBL 2M - 2400111

<https://www.phoenixcontact.com/us/products/2400111>

Cable, serial, USB to RJ11/12



Phoenix Contact 2022 © - 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