

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



2702031

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

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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	DR11
Product key	DRACAA
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
Product family	Nanoline

System properties

INTERBUS-Master

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

Engineering tool	nanoNavigator 4.2 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	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 k Ω
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

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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 μ s (Channel 1 and 2)
	2 ms (Channel 3 and 4)

Counter:

Description of the input	High-speed counter
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
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Interfaces

Operator Panel

Connection method	RJ45 / COMBICON
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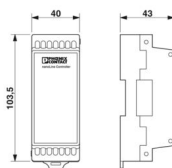
RS-232

Connection method	Slot 1
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USB

Connection method	Slot 1
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Dimensions

Dimensional drawing	
Width	40 mm
Height	103.5 mm
Depth	43 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 ... 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
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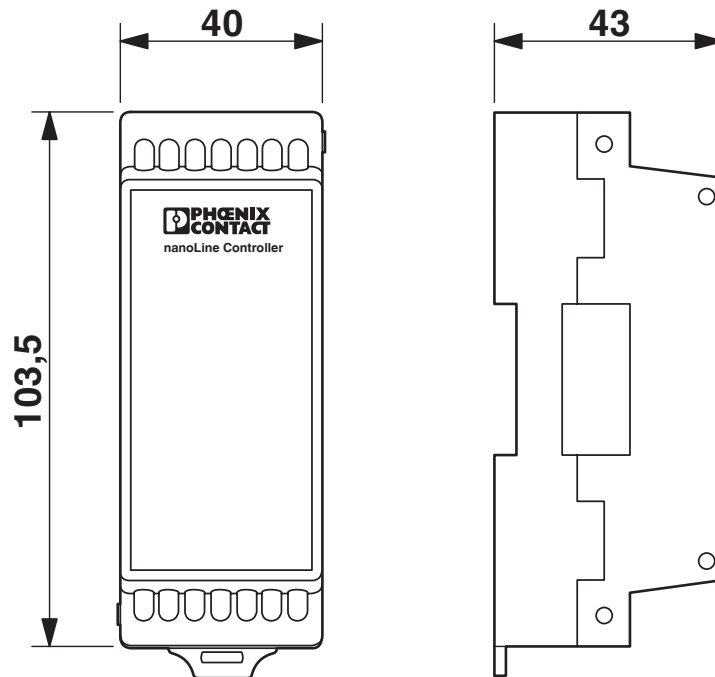
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Drawings

Dimensional drawing



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Classifications

UNSPSC

UNSPSC 21.0	39122329
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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%

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