

NLC-050-024D-06I-04QRD-05A - Base unit



2701043

<https://www.phoenixcontact.com/pc/products/2701043>

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24 V DC Nanoline base unit. Equipped with 6 digital input 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	2701043
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRACAA
Catalog page	Page 463 (C-8-2015)
GTIN	4046356325363
Weight per piece (including packing)	311.9 g
Weight per piece (excluding packing)	311.9 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	3 (I/O modules)
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System requirements

Engineering tool	nanoNavigator 1 or 2
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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	Optional module
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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 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	60 μ s (on) 70 μ s (OFF)

Output data

Digital

Output name	Relay output
Output description	Relay output

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

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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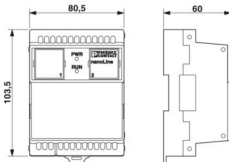
USB

Connection method	Slot 1
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Realtime Clock

Connection method	Slot 2
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Dimensions

Dimensional drawing	
Width	80.5 mm

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Height	103.5 mm
Depth	60 mm

Material specifications

Color	white
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Environmental and real-life conditions

Ambient conditions

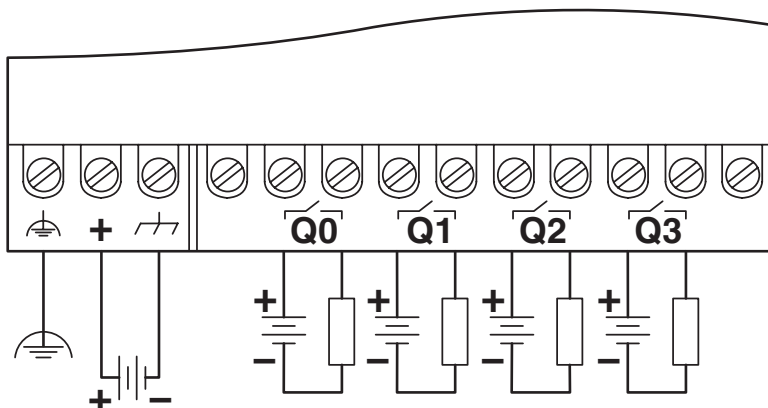
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	90 %
Permissible humidity (storage/transport)	90 %

Mounting

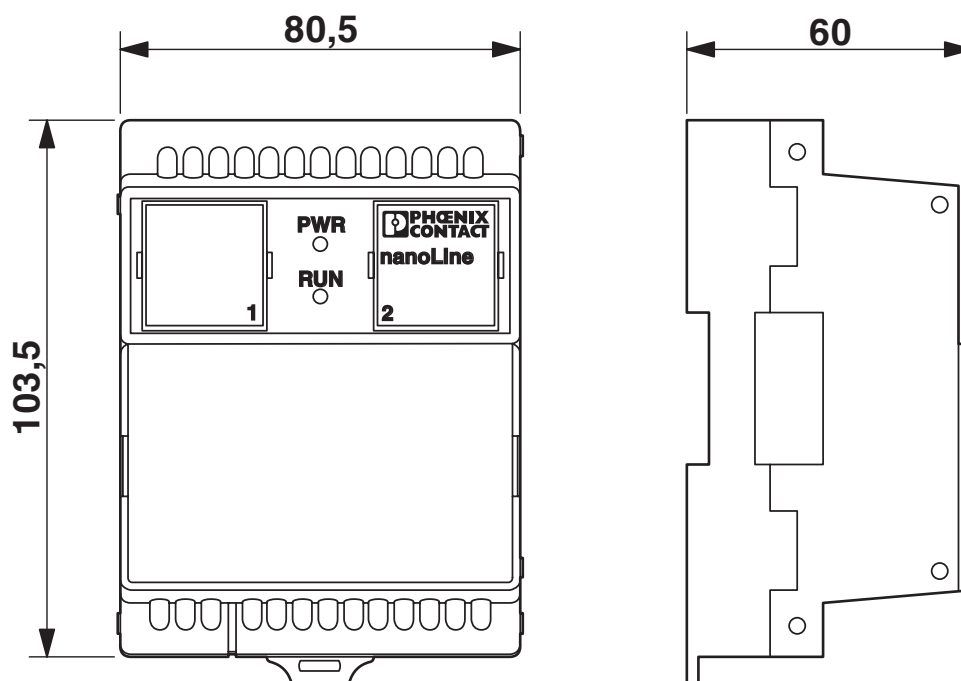
Mounting type	DIN rail mounting
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Drawings

Connection diagram



Dimensional drawing



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Approvals

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UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



EAC

Approval ID: TR_TS_D_01831-19

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27242216
ECLASS-12.0	27242216
ECLASS-13.0	27242216

ETIM

ETIM 9.0	EC001417
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com