

NLC-055-012D-08I-04QRD-05A - Base unit



2700486

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12 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 Operator Panel provides user interface. Programming is via nanoNavigator.

Commercial data

Item number	2700486
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR11
Product key	DRACAA
Catalog page	Page 461 (C-8-2015)
GTIN	4046356646543
Weight per piece (including packing)	364.6 g
Weight per piece (excluding packing)	364.6 g
Customs tariff number	85371098
Country of origin	IN

Technical data

Product properties

Product type	Base unit
Product family	Nanoline

System properties

System requirements

Engineering tool	nanoNavigator 3 or above
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Electrical properties

Supply

Supply voltage	12 V DC (Power available to the I/O and Communications modules)
Supply voltage range	9 V DC ... 15 V DC
Power supply connection	Screw connection
Max. current consumption	400 mA
Typical current consumption	250 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
A/D converter resolution	12 bit (monotonic)
Connection technology	Screw connection
Voltage input signal	0 V DC ... 10 V DC
Input resistance of voltage input	20 kΩ
Input filter	Digital
Limit frequency (3 dB)	1 Hz (3 dB)
Measuring principle	Successive approximation
Protective circuit	Transient voltage suppression

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	10.2 V DC ... 14.4 V DC

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Nominal input voltage U_{IN}	12 V DC
Nominal input current at U_{IN}	3 mA DC (On)
	< 100 mA (Off)
Typical response time	20 ms (on)
	40 μ s (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))
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 mm ² ... 2.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Interfaces

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Operator Panel

Connection method	RJ45 / COMBICON
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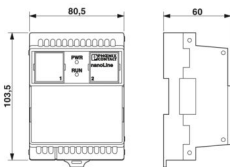
RS-232

Connection method	Slot 1
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USB

Connection method	Slot 1
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Dimensions

Dimensional drawing	
Width	80.5 mm
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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