

Power Supply NG4

110561-01



8038/899243-01



1. Description

The NG4 power supply supplies regulated direct voltages for supplying power to the respective devices of the product family of I/O components. The device supplies regulated direct voltage 24 V DC at a power of 16 watts. A parallel operation of several power supply units is not allowed. The secondary voltage can only be tapped at the right side of the plug connector and at the screw-type terminals on the top of the module. The bus communication is looped through on both sides of the plug connectors.

2. Important Notes

Declaration of Conformity

The device was tested according to the applicable standards. Conformity was proofed. The declaration of conformity is available at the manufacturer BTR NETCOM GmbH.

Notes Regarding Device Description

These instructions include indications for use and mounting of the device. In case of questions that cannot be answered with these instructions please consult supplier or manufacturer.

The indicated installation directions or rules are applicable to the Federal Republic of Germany. If the device is used in other countries it applies to the equipment installer or the user to meet the national directions.

Safety Instructions

Keep the applicable directions for industrial safety and prevention of accidents as well as the VDE rules.

Technicians and/or installers are informed that they have to electrically discharge themselves as prescribed before installation or maintenance of the devices.

Only qualified personnel shall do mounting and installation work with the devices, see section "qualified personnel".

The information of these instructions have to be read and understood by every person using this device.

Symbols

Warning of dangerous electrical voltage



means that non-observance may cause risk of life, grievous bodily harm or heavy material damage.

Qualified Personnel

Qualified personnel in the sense of these instructions are persons who are well versed in the use and installation of such devices and whose professional qualification meets the requirements of their work.

This includes for example:

- Qualification to connect the device according to the VDE specifications and the local regulations and a qualification to put this device into operation, to power it down or to activate it by respecting the internal directions.
- Knowledge of safety rules.
- Knowledge about application and use of the device within the equipment system etc.

3. Technical Data

Input

Operating voltage 110 - 240 V AC, 50 - 60 Hz
Internal fuse T1A/L/250 V soldered fuse

Output

Output voltage DC +24 V (SELV)
Output current (max) 700 mA
Output power 16 W
Load and control accuracy ±3% (Tu = 20 °C)

Protection and monitoring

Continuous short circuit protection yes
Idle test yes
Mains failure backup > 40 ms at 230 V AC and full load
Dielectric strength 4000 V AC input/output

Device security

Standard
Conformity was proofed.
The declaration of conformity is available at the manufacturer BTR NETCOM GmbH.
Safety Extra Low Voltage (SELV) according EN 60950
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EMV

CE conformity
Emitted interference/ Immunity to interference the device was tested according to the applicable standards; conformity was proofed, the declaration of conformity is available at BTR NETCOM

Contacting

Primary and secondary no
Cover IP20 (nach EN 60529)
Type of protection IP20 (nach EN 60529)
Wire cross section 1.5 mm²

Housing

Dimensions WxHxD 1.968 x 2.756 x 2.559 in.
50 x 70 x 65 mm
1.772 in. / 45 mm
Weight 108 g
Mounting position any
Mounting standard rail TH35 per IEC 60715
Material
Housing Polyamide 6.6 V0
Terminal blocks Polyamide 6.6 V0
Cover plate PolycarbonateB
Mounting in series without space
Type of protection (IEC 60529)
Housing IP40
Terminal blocks IP20

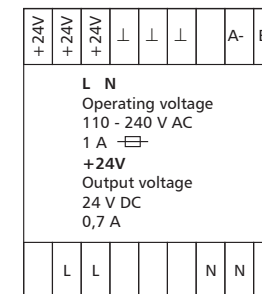
Terminal blocks

Wire cross section max. AWG 12 (4.0 mm²) solid wire
max. AWG 14 (2.5 mm²) stranded wire
Wire diameter min. 0.3 mm up to max 2.7 mm

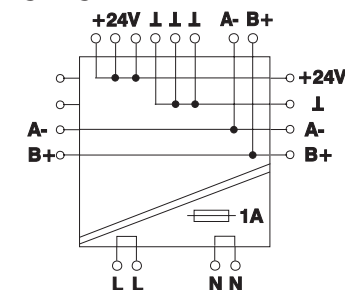
Temperature range

Operation -10 °C to +55 °C
Storage -25 °C to +85 °C

4. Connection Diagram



5. Wiring Diagram



6. Mounting

Power down the equipment

Mount the module on standard rail (TH35 per IEC 60715 in junction boxes and/or on distribution panels).

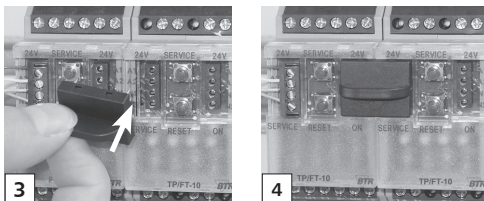
Installation

Electric installation and device termination shall be done by qualified persons only, by respecting all applicable specifications and regulations.



Preparing cable for connection.

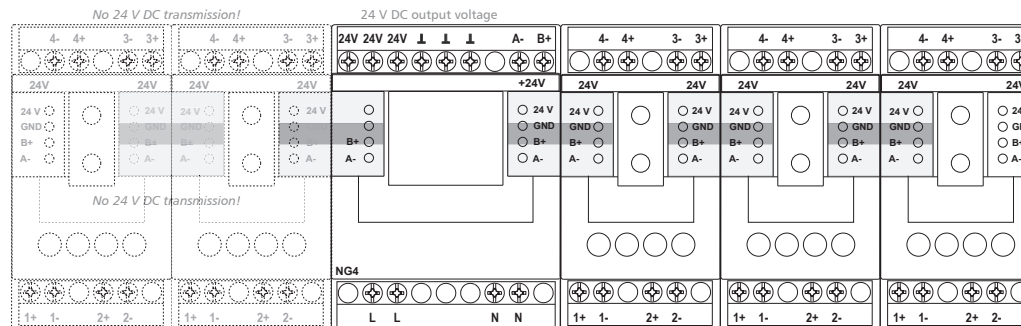
Strip the wire by 7 mm, attach an end sleeve if necessary, insert the wire into the contact and tighten the terminal screw with a screwdriver.



- The module can be aligned without interspace. Use the jumper plug to connect bus and supply voltage when the modules are mounted in series.
- The maximum quantity of modules connected in line is limited to 15 or to a maximum power consumption of 2 Amps (AC or DC) per connection to the power supply. For any similar block of additional modules a separate connection to the power supply is mandatory.

7. Termination possibility

- Connection on the right side of the NG4 for voltage feeding and bus tap to the following bus modules (with jumper connection for example)
- Connection on the left side of the NG4 transfer of the bus connection by jumper connection. No 24 V DC connection!
- Parallel connection of several NG4 devices is not possible.



L / N operating voltage 110-240 V AC

