FOX901 | FOX POWER

Instruction manual

Version 1.0 | 2016

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1 | Terms of use

We would like to thank you for choosing equipment from Nexwell Engineering.

The author made a great effort that the contained information in this document are accurate and reliable, but cannot be held responsible for the improper use of this manual, including the destruction or damage of the equipment.

Due to the product development, the manufacturer reserves the right to do changes.

For any questions or concerns regarding the operation of Nexwell devices, please contact: biuro.techniczne@nexwell.eu

Nexwell Engineering does not accept any liability deriving from the usage of the devices. Installations need to be carried out in accordance with all applicable standards for electrical safety conditions.

All connection work shall be done without any power supply.

You can find the current version of the instruction manual on the producer's website www.nexwell.eu

Important!

RESPONSIBILITY

Nexwell products are not intended for the use in: medical purposes as a direct threat and sustaining life and human health; industrial purposes, referring to controlling of critical for safety reasons, of technological processes and their safety systems, and in other applications, whose failure could danger human lives or cause environmental disasters.

INSTALLATION PLACE

Nexwell products shall be installed where the access is possible without any special equipment (e. g. ladders), and in that way the assembly or disassembly does not result in any material losses (e. g. do not immure it).

PACKAGING AND UTILIZATION

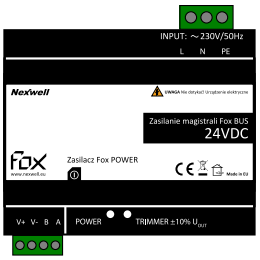
The products are packaged in biodegradable, environmentally-friendly, separable cardboard materials, and protecting ESD foil.

Disposal of waste of used electrical and electronic equipment (for the European Union and other European countries with separate collection systems) the European Directive 2002/96/EC on Waste Electrical & Electronic Equipment (WEEE) enunciates a ban on disposing used electrical and electronic equipment together with other waste as municipal waste – you could get fined. According to the law, used devices must be collected separately and sorted. The thwarted "trash" symbol on the product reminds you of your obligation of special sorting. Consumers should contact their local authority or retailer for information concerning the proceeding with used electrical and electronic equipment.

2 | Overview

Usage

This module is responsible for the power supply of the Fox system elements.



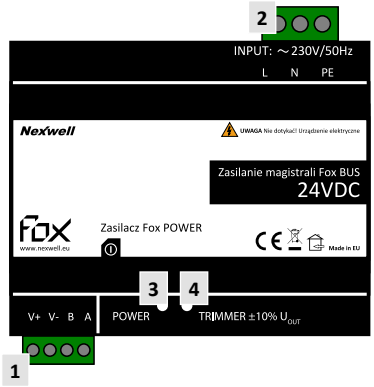
Physical characteristics

- Output voltage: 24 VDC
- Max. current: 2,5 A
- Max. power: 60 W
- Power supply: 200 – 260 VAC
- Original fuse: F1A/250 V
- Second fuse: T2,5A/250 V
- Installation: switchboard – DIN rail [TH-35]
- Width on the DIN rail: U/6

The power supply Fox POWER in the Fox system

The power supply Fox POWER is installed on the bus of the Fox BUS devices. Its task to ensure the power supply of the Fox devices.

Description of the device



1. Fox BUS connector
2. Power connector – device power supply 200-260 VAC
3. State LEDs
4. Trimmer – regulation of the output voltage within ± 10% of the nominal value

Meaning of module state LEDs

- **POWER** – power supply
  - LED lights up – power supply gives 24 VDC to the Fox BUS connector

Functionality of the power supply housing

The power supply is designed for connection to the Fox BUS rail. A bus connector is built-in in a suitable spot of the housing, which guarantees an easy and correct connection to the other Fox system components.

WARNING
The communication lines A and B are inactive. Their connection not required.

3 | Installation and connection

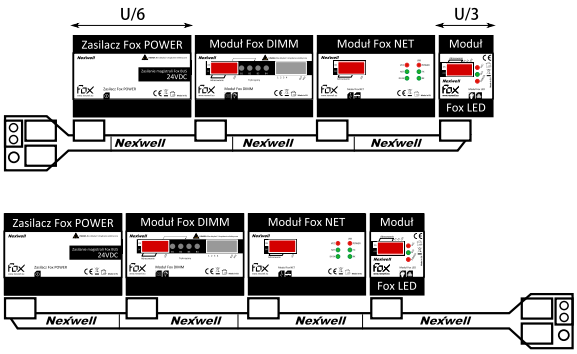
Installation

The power supply Fox POWER is a device to power the Fox BUS. It is designed for usage in switchboards on a DIN rail. **Module width on the rail - U/6 (104mm).** Please follow the general installation instructions for the installation of the bus. **The installation work should done without any power supply.**

Connection

WARNING
The connection needs to be done without any power supply in accordance with all applicable standards for electrical safety conditions.

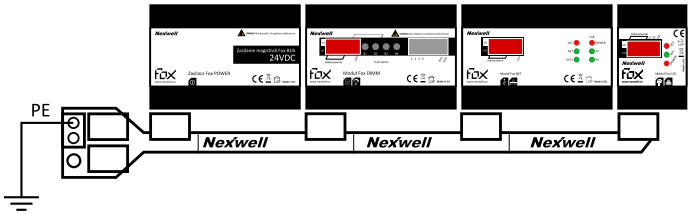
1. You need to connect the power to the Fox BUS. For this, you shall use the Fox BUS rails, there are right and left ones available (see figure).



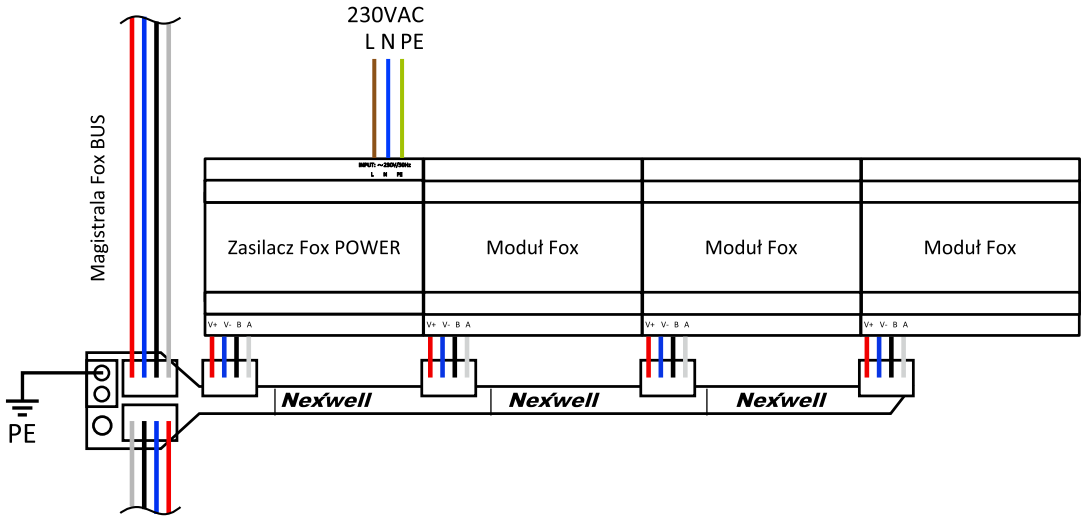
Left and right Fox BUS rail

The Fox BUS rails are designed to connect up to four modules with the width U/6 each. We suggest to place module with a smaller width at the end of the left rail, and to place smaller ones at the beginning of the right rail.

2. Afterwards you need to connect the PE cable to the Fox BUS (see figure).



3. Next connect the power supply to the network connectors according to the markings L, N and PE.



WARNING
Please tighten the screws 24 hours, after installing the connectors to the rail, to fix the electrical contact.

WARNING
The Fox BUS connection via power supply and communication cables is resistant to short--circuits up to -/+ 30 VDC.