

## Powernet Built-In Fourfold 24 V Binary Input

Art. Nr.: 0408 00

## System Information

This device is a product of the Gira-Powernet® EIB system and complies with EIBA directives. Detailed technical knowledge obtained in *instabus* or Gira-Powernet® EIB training courses is a prerequisite to proper understanding.

The functionality of this device depends upon the software. Detailed information on loadable software and attainable functionality may be taken from the manufacturer's ETS2 product database as well as from the Gira-Powernet® EIB controller database.

Planning, installation and commissioning of the unit is done by means of the ETS2 software, Ver. 1.1 or later, as well as by the Gira-Powernet® EIB controller.

## Function

This unit has four independent inputs for 24 V AC / DC signals which are processed separately. They serve for the coupling of switch or push-button contacts to the Gira-Powernet® EIB system. The 24 V signal voltage can alternatively be applied externally or produced by the unit.

## Connection with Internal Supply

Establish connection as shown in Figure ①. The input signal voltage produced by the binary input corresponds to the protection low voltage (SELV). The 230 V AC connection for the production of the input voltage may be on a phase other than that of the Gira-Powernet® EIB connection.

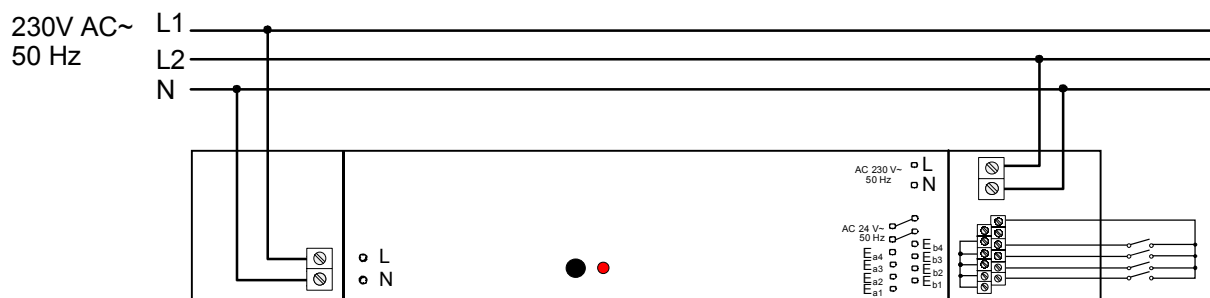


Figure ①

## Connection with External Supply

Establish connection as shown in Figure ②.

When the inputs are externally supplied with 24 V, SELV may be applied.

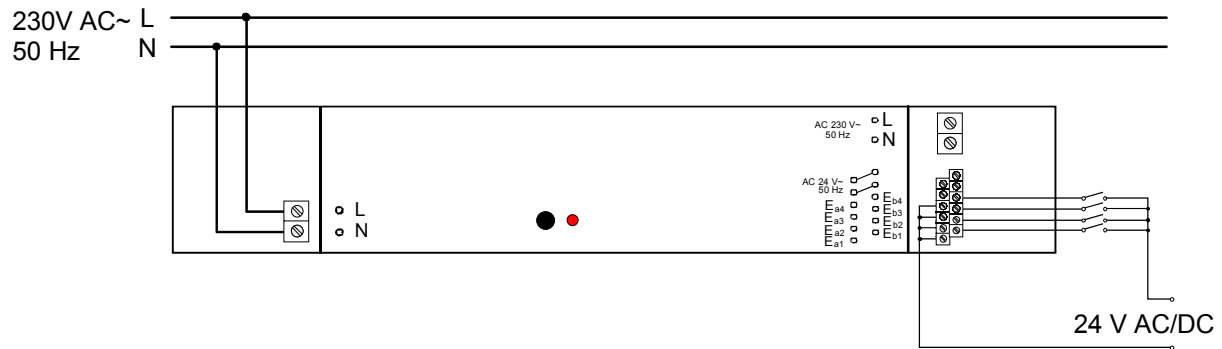


Figure ②

## Terminal Assignment:

Both for internal and external wiring, jumpers must be installed at terminals E<sub>a1</sub> - E<sub>a4</sub>, depending upon the number of inputs used. The polarities of terminal strips E<sub>a1</sub> - E<sub>a4</sub> and E<sub>b1</sub> - E<sub>b4</sub> must be uniform, e. g. E<sub>a1</sub> - E<sub>a4</sub> = +, E<sub>b1</sub> - E<sub>b4</sub> = -.

The terminal pair for the protection low voltage is arranged in duplicate.

## Important

Ensure, in any case, the separate laying of protection low voltage and mains voltage lines. Due to the low signal current of  $\leq 7,5$  mA, it is recommended that no AgCdO contacts should be used as these will tend to bring about impermissibly high transition resistances if not operated frequently.

## Warning

**Caution! The installation and assembly of electrical equipment may only be performed by a skilled electrician. When working on the system, make sure that all poles are disconnected.**

## Specifications

Supply	
Mains voltage	: 230 V AC (sine wave)
Mains frequency	: 50 Hz
Current consumption	: 7.5 mA per input
Connection	
Mains, Powernet® EIB	: 1 - 2,5 mm <sup>2</sup> screw terminals
Inputs	: 1 - 1,5 mm <sup>2</sup> screw terminals
Ambient temperature	: -5 °C to +45 °C
Protective system	: IP 20 acc. to EN 60529
Dimensions (in mm)	: 240 x 32 x 42 (W x H x D)
Line length	: 100 m max. per input
Input Signal Voltage	
For internal supply	: 24 V AC
For external supply	: 24 V AC / DC
Signal current	: ≤ 7.5 mA per input
Signal Threshold	
"0" signal	: < 12 V
"1" signal	: > 18 V

## Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

**Please return the unit postage paid to our central service department giving a brief description of the fault:**

Gira  
Giersiepen GmbH & Co. KG  
**Service Center**  
Dahlienstrasse 12  
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

Gira  
Giersiepen GmbH & Co. KG  
Postfach 1220  
D-42461 Radevormwald

Telefon: +49 / 21 95 / 602 - 0  
Telefax: +49 / 21 95 / 602 - 339  
Internet: [www.gira.de](http://www.gira.de)