:hager

EN

EEF012
IP Roombox basic

Safety instructions

The installation and mounting of electrical appliances must only be performed by qualified electricians, in compliance with installation standards and in accordance with the guidelines, provisions and safety and accident prevention regulations in force in the country concerned. Failure to follow these installation instructions may damage the device, cause a fire or give rise to hazards. Risk of electric shock. Switch off the installation before performing any operation on the device or the load. Do not forget to include all of the circuit breakers which supply potentially dangerous voltages to the device or to the load. Risk of electric shock. The appliance is not suitable for providing isolation. Risk of electric shock on SELV/FELV installations. Not suitable for switching SELV/FELV voltages. Only connect one motor per output. Use only motors with mechanical or electronic limit switch sensors. Check the adjustment of the limit switches. Follow the motor manufacturer's instructions. There is a risk of damage to the unit.
Do not connect to three-phase motors. There is a risk of damage to the unit. Observe the motor manufacturer's recommendations for the minimum reverse rotation time and the maximum continuous operation time. These instructions for use form an integral part of the product and must be retained by the end user.

Installation

The IP Roombox inputs are used for interfacing dry contacts (not 230 V ∼) with relay outputs and the dimming output of the IP Roombox. For example, push buttons, switches or conventional automation.

Functions
The exact functions of these inputs depend on the configuration that you establish in the "IP Roombox configuration software".
The push button on the front panel is used for navigation in the various menus offered by the product: NETWORK SETTINGS, RESET MODUL WITH DHCP ON, RESET MODUL WITH DHCP OFF, RESTART MODULE.
Depending on the configuration parameters that you define using the "IP Roombox configuration software", the device will switch electrical loads using its independent output relays.
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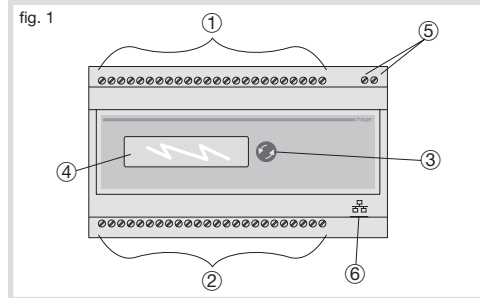
Typical use examples

- Switching of 230 V ∼ electrical loads via floating contacts.
- Control of 230 V ∼ motors for roller shutters and fan-coil units.

- Control of 24 V⎓ electric motors for roller shutters.
- Mounting on a DIN rail in accordance with standard EN60715 on a distribution board.

Product description
① Inputs: 12 dry contacts
② Outputs: 12 ON/OFF relay outputs
③ Push button for navigation of menus
④ LCD screen for viewing the I/O and menus
⑤ 230 V ∼ terminals
⑥ RJ45 network connector

fig. 1

Available functions
Several functions are available for configuration of the product using the "IP Roombox configuration software":
- On/Off
- Toggle
- Timer
- Shutters 230 V ∼
- Shutters 24 V⎓
- External dimmer (available only with the EEA001A external dimmer, not supplied).
- Fan-coil unit (**warning**: regulation is not provided by the IP Roombox. Rather it must be provided by an external thermostat, the outputs of which can be interfaced with the dry contact inputs of the IP Roombox).

⚡ Electric shock in the event of contact with live parts!
Electric shock can cause death!
Before working on the unit, switch off the installation and cover the neighbouring conductive parts!

⚠ A critical temperature increase may occur if too large a load is connected to the device!
The device and connecting cables may be damaged at the terminal connection!
Do not exceed the maximum permissible load per device!

⚠ Risk of damage in the event of parallel installation of multiple motors on a single output!
The limit switches risk being damaged!
The motors, opening elements and the device may be destroyed!
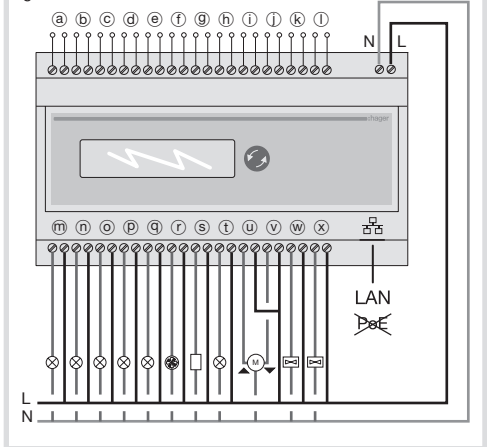Connect only one motor per output!

Installation of the device
Observe the operating temperature range, in order to ensure adequate cooling.

- Mount the unit on a DIN rail in accordance with standard EN60715.
- When wiring the product, make sure that you correctly separate/isolate the input and output cables from each other, as well as from the other LV cables of the installation.

Example connection of the device

fig. 2

Inputs
- ⓐ Card Holder
- ⓑ Button ring
- ⓒ Hall light
- ⓓ Do not disturb
- ⓔ Clean my room
- ⓕ Bathroom light
- ⓖ Emergency button
- ⓗ Bath water sensor
- ⓘ UP Button Shutter
- ⓙ DOWN Button Shutter
- ⓚ Master OFF
- ⓛ Free

Outputs
- ⓜ Entrance Light
- ⓝ Bathroom Light
- ⓞ Hall light
- ⓟ Do not disturb
- ⓠ Clean my room
- ⓡ Bath Airing
- ⓢ Doorbell
- ⓣ Alarm lamp
- ⓤ Shutter UP
- ⓥ Shutter DOWN
- ⓦ Heating
- ⓧ Cooling

Connecting roller shutter motors
230 V∼ Roller Shutters
For 230 V ∼ roller shutter motors, two adjacent outputs C1/C2, C3/C4, C5/C6, C7/C8, C9/C10 and/or C11/C12 can be used to form a shutter output.
- The first output of the pair C1, C3, C5, C7, C9 or C11 is assigned to the OPENING movement (Up)
- The second output of the pair C2, C4, C6, C8, C10 or C12 is assigned to the CLOSING movement (Down).
Connect the 230 V ∼ motor to the outputs in accordance with fig. 3 below. Use the same phase to do this.
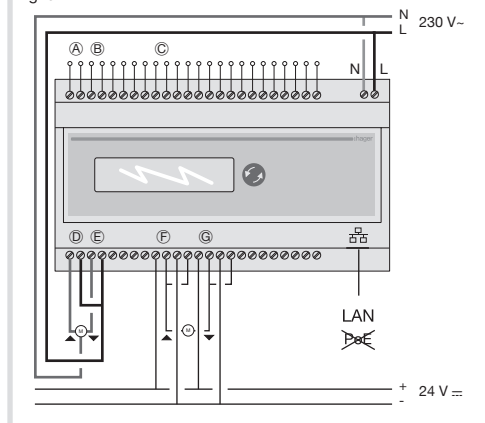
24 V⎓ Roller Shutters
For the roller shutter motors, four neighbouring 24 V⎓ outputs C1/C2/C3/C4, C5/C6/C7/C8 and/or C9/C10/C11/C12 can be used to form a shutter output.
- The first and second outputs of the group of 4 outputs C1/C2, C5/C6 or C9/C10 must be connected to the **+** terminal of the 24 V⎓ power supply.
- The third and fourth outputs of the group of 4 outputs C3/C4, C7/C8 or C11/C12 must be connected to the **-** terminal of the 24 V⎓ power supply.
Connect the 24 V⎓ motor to the outputs in accordance with fig. 3 below.

fig. 3

- Ⓐ Button UP
- Ⓑ Button DOWN
- Ⓒ Button UP-DOWN
- Ⓓ Shutter UP 230 V ∼
- Ⓔ Shutter DOWN 230 V ∼
- Ⓕ Shutter UP 24 V ⎓
- Ⓖ Shutter DOWN 24 V ⎓

Switching on/Configuration

- Switch on the product.
- Connect an RJ45 cable to the product and your computer.
- Download the "IP Roombox configuration software" to a computer.
- The computer used for the configuration must have a fixed IP address if the product as a fixed IP address (default configuration). It is possible to modify this setting directly on the product in the following manner:
  • access the Menus interface with a long key press.
  • Scroll the menus using short presses until "RESET MODUL WITH DHCP ON" is displayed to switch to dynamic IP.
  • Once you are positioned on "RESET MODUL WITH DHCP ON" give a long key press to restart the product with a dynamic IP address.
  • Wait for the product to re-initialise (it is possible to switch back at any time to fixed IP address mode by following the same procedure with "RESET MODUL WITH DHCP OFF").

The computer/session used for the configuration must be an Administrator.

- Double click on the ".exe" file of the "IP Roombox configuration software".
- Connect to the product using the IP address of the product or the Hostname (ex.: EEF012_15): the default IP address is available on the label on the back of the product. It is also possible to display the product IP address/Hostname using the navigation button on the front of the product:
  • access the Menus interface with a long key press.
  • Scroll through the menus using short presses until "VIEW NETWORK SETTINGS" is displayed.
  • Once you are positioned over "VIEW NETWORK SETTINGS", give a long key press to access the information on this menu.
  • Scroll the information using short presses until "IP ADDRESS" or "HOSTNAME" is displayed. Its also possible to use the "Search" function (🔍) in the "IP Roombox configuration" software to find the various IP addresses connected to the network.
- Once connected to the product, configure it using the functions available in the "IP Roombox configuration software".

Commissioning the device

Switch on the outputs.

Technical characteristics

Inputs dry contacts, do not connect a voltage	
Maximum connection distance	100 m.
Supply voltage	230 V ∼/+10%/-15%
	240 V ∼ +/-6%
Frequency	50/60 Hz
Output relays (x12)	breaking capacity
	µ8 A AC1 230 V ∼
Upstream protection	circuit breaker 10 A
Loads 230 V ∼	
Incandescent lamps	1500 W max.
Halogen lamps	1500 W max.
ULV halogen lamps for electronic or ferromagnetic ballast	900 VA max.
Fluorescent tubes for electronic ballast (mono/duo)	700 W max.
Compact fluorescent/LED lamps, 5 lamps max. of 20 W max. each	
Shutter motors	6 A max.
Fan-coil unit motors	4 A max.
External dimmer 500 W	EEA001A
Loads 24 V ⎓	
- 24 V ⎓ shutter motors	6 A max.
Minimum switching current	100 mA
Maximum operating altitude	2000 m.
Pollution level	2
Surge voltage	4 kV
Protection rating (box)	IP20
Protection rating of box under faceplate	IP30
Protection rating against mechanical shocks	IK02
Overvoltage category	III
Operating temperature	-10 °C ... +45 °C
Storage/transport temperature	-20 °C ... +70 °C
Screw terminal connection capacity of the inputs	0,25 mm²... 2,5 mm²
Screw terminal connection capacity of the outputs	0,75 mm²... 2,5 mm²
Maximum dissipation	5 W
Standby power consumption	0,9 W
Dimensions of 9 modules	158 x 91 x 60 mm

What to do if...

The outputs and the LCD screen no longer respond.
- Using the product IP address/Hostname: try to connect to the product using and RJ45 cable and the "IP Roombox configuration software" then attempt to download the configuration again.
- If you do not know the product IP address/Hostname: switch off and on the power supply to the product, so that it re-initialises.

The outputs no longer respond but the LCD screen is functional.
- Give a long key press to enter the menus.
- Use short key presses to scroll through the menus until "RESTART MODULE" is displayed.
- Give a long press to restart the product and wait for it to re-initialise.

It is not possible to connect to the product.
- Check the connection between the product and your computer.

🚮 **Correct Disposal of This product (Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with separate collection systems).

This marking shown on the product or its literature indicates that it should not be disposed with other household wasted at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes of disposal.

Usable in all Europe ⊂ ∊ and in Switzerland