

Installation and Operating Instructions

4-channel modular device

Switching receiver for

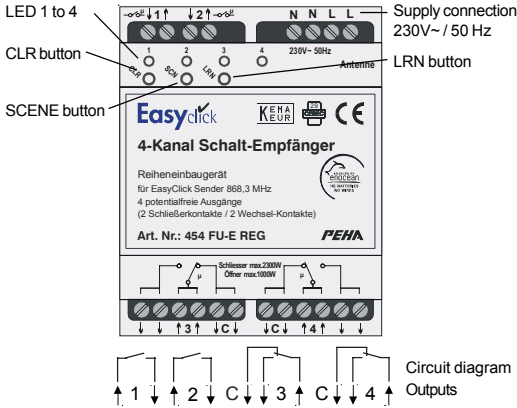
Easyclick transmitters

Art. no.: 454 FU-E REG



The switching receiver belongs to the PEHA Easyclick radio system. The radio transmission is at the European harmonized frequency of 868.3 MHz. The radio system is particularly suitable in those instances where repairs are not wanted such as renovations, retrofitting electrical systems or offices with mobile walls. The switching receiver is controlled by radio signals from the Easyclick transmitter and serves to switch different consumers such as incandescent lamps, high-voltage halogen lamps, electronic ballast and inductive loads. Outputs 1 and 2 are normally-open contacts, and outputs 3 and 4 are two-way switches.

Circuit diagram



The switching ceiling receiver has 4 potential-free relay contacts. Outputs 1↓ – 4↓ are normally open contacts. Outputs C↓ are normally-closed contacts. The contacts may not be operated at pulsating voltages (such as 12V DC and 230V AC). The supply line may only be fused with a maximum 16 A miniature circuit breaker.

Legal Provisions

The receiver may only be installed by authorized professionals. When connecting the system, shut off the power. The following points must be observed:

- Follow applicable laws, standards and regulations.
- ensure the state of the art at the time of installation.
- follow the operating instructions for the Easyclick transmitters and receivers.
- note that operating instructions can only provide general guidelines, and that they must be considered in the context of a specific system.

Note: The modules may not be used with devices that directly or indirectly affect human health or safety, or that could endanger humans, animals or property. The operating instructions are considered an essential part of the device and our warranty conditions. They must be provided to the user. The technical design of the equipment can change without prior notification. If a defect should be determined, you can return your PEHA Easyclick product together with a clear description of the problem (type of use, connected load, determined defect, etc.) to your PEHA distributor.

Technical data for the type 454 FU-E REG

Art. No.	454 FU-E REG
Transmission frequency	868.3 MHz
Power supply	230V~ / 50 Hz
Outputs	4 potential-free relay contacts 2 NO cont., 2 changeover cont.
Fusing per supply line	max. 16 A miniature circuit breaker
Surrounding temperature	-20° to +40°C
Storage temperature	-40° to +85°C
Test specifications	IEC 609-2-1
Certifications	CE KEMA/KEUR
Degree of protection	IP 20

Consumer connection data per channel		
	NO contact 1↓ 4↓	Break contact C↓
Incandescent lamp (ohm load)	2300 W	1000 W
High-voltage halogen lamps	1250 W	500 W
Inductive load	600 VA	250 VA
Electronic ballast load	3 items	1 item

Easyclick Wall Transmitter: Art. No.: Art. No.:
 - 2-channel wall transmitter 95.450.xx FU-BLS 450 FU-BLS
 - 4-channel wall transmitter 95.455.xx FU-BLS 455 FU-BLS

Paul Hochköpfer GmbH & Co. KG · Postfach 1727 · D-58467 Lüdenscheid
 Tel.: (02351)185-0 · Fax: (02351)27666 · e-mail: peha@peha.de · Internet: www.peha.de
 454FU-EREG-Rev04_041220.pdf

Startup

The PEHA Easyclick radio system with transmitters and receivers comes in a modular design. Each transmitter can simultaneously control an unlimited number of receivers. The transmitters have a fixed address. The transmitters must be programmed on a receiver. Each receiver can control a maximum of 30 transmitters. To do the actual programming, the receivers must be connected to the network. The programming is retained even in a power failure.

Mounting instructions and recommendations: NEVER mount the Easyclick transmitter in a metal housing or directly next to large metal objects. It is also not recommendable to mount the receivers on the floor or close to the floor.

Programming

The buttons LRN, CLR and SCENE serve to program the switching receiver and have the following function:

- LRN:** Press the button and hold it down. After approx. 0.3 s, programming mode (channel 1) becomes active, which is confirmed as LED 1 flashes. In programming mode, again pressing the LRN key switches you to channel 2 which is confirmed when the associated LED flashes. Outputs 1 to 4 of the channels are switched on and off for a second while the respective LED flashes.
- CLR:** The key is pressed approx. 2 s. During this time, the memory is completely deleted (condition upon delivery). Then the recessed receiver is in programming mode which is signaled as LED 1 flashes.
- SCENE:** Lighting scenes can be programmed and activated with a special Easyclick manual transmitter (see manual transmitter operating instructions).

30 transmitters can be assigned to the switching receiver. The memory of each switching receiver is empty when delivered. A transmitter may not be more than 5m from the switching receiver in programming mode since the receiver would then operate with a restricted range.

- If the switching receiver is in programming mode, the LED flashes of the channel selected for programming. By pressing one of the transmitter buttons, the transmitter is assigned to the switching receiver, and the LED briefly stop flashing. The LED status identify if the transmitter has been saved (LED on) or deleted (LED off). Then the LED starts flashing again, and another transmitter can be assigned. Independent of which transmitter button has been pressed, the entire functionality of the transmitter is recorded when it is assigned. If the transmitter button is not repressed, the switching receiver independently leaves programming mode after approx. 30 s. If you want to manually leave programming mode, press the LRN button in channel 1 until no LED flashes in channel 4.
- Selective deleting:** A transmitter that has been saved can be selectively deleted again. The programming mode is activated by pressing the LRN button. One of the transmitter's buttons has to be pressed to delete it. If the button is recognized, the transmitter assignment is deleted (LED status = off), and the switching receiver returns to programming mode.

During error analysis in the case of radio interference

- For a new or pre-existing system:**
- Check the system voltage of the receiver.
 - Check if the receiver receives a radio command.
 - Check if the receiver is connected as specified.
 - Check the operation of the connected consumers.
 - Delete the all programmed transmitters in the receiver, and reprogram the receiver.

- The receiver independently turns ON and OFF:**
- This can occur when an outside transmitter is activated within the receiver range that was previously programmed in the receiver.
 - Delete all the transmitters in the receivers, and reprogram the functions.

- A transmitter does not work:**
- Take the transmitter and move toward the receiver.
 - Check if the receiver receives a radio command.
 - If the system still works at a closer distance, the transmitter was installed outside of the transmission range, or there was interference. Mount the sensor at a better location.
 - If the system works when you are holding the transmitter, but it does not when it is on the wall, it may indicate that there is moisture or metal in the wall. Mount the transmitter at a better site. If the system still does not work, check the programming, delete it if necessary, and reprogram the receiver.