

Operation and installation manual

FELA SWITCH CASAMBI

Stationary 230 Volt wall switch / mobile battery switch



Read these instructions carefully before installation and first use.

Follow the instructions. Hand the manual over to the owner for safekeeping.

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QUALIFIED PROFESSIONEL ELECTRICIAN



Installation and connection of electrical devices may only be carried out by qualified electricians in compliance with the applicable accident prevention regulations. The five safety rules of electrical engineering (DIN VDE 0105) must be observed.

You are a qualified electrician if you know the relevant standards and guidelines due to your professional education, training and experience, if you can carry out the electrical connections professionally and safely according to the attached wiring diagram and if you can recognize and avoid risks and dangers due to electricity.

INTENDED USE

FELA SWITCH CASAMBI is used to control lights or actuators according to the CASAMBI standard. Other devices with other network protocols cannot be used.

The FELA SWITCH CASAMBI devices are intended exclusively for domestic use and similar purposes.

Operation is only permitted with:

- Fixed installation within buildings (FELA SWITCH CASAMBI stationary 230 Volt)
- Installation on the wall (FELA SWITCH CASAMBI stationary 230 Volt).
- electrical flush-mounted connection (FELA SWITCH CASAMBI stationary 230 Volt)

SAFETY INSTRUCTIONS AND WARNINGS



Indicates a potentially hazardous situation that could result in minor or moderate injury. Inobservance may result in in severe injury, fire or property damage.



Indicates a possible situation that could lead to material damage to the product or its surroundings.

FELA SWITCH CASAMBI stationary 230 Volt wall switch

Danger of electric shock. Before working on the device, disconnect all associated circuit breakers.

Protect the system from direct sunlight to avoid high temperatures.

Avoid using the switch in strongly heated rooms and, if possible, keep it away from heat sources.

Keep the switch away from rooms with high humidity.

If the glass is damaged, e.g. due to a fall, the switch must not be used again. There is a risk of injury. Damage to the glass can lead to false triggering.



There is a risk of burns if the glass surface is too hot. Let the system cool down before using the device again.

FELA SWITCH CASAMBI mobiler Batterieschalter



Danger of explosion if the wrong batteries are used.

Keep batteries out of the reach of children. Swallowing a battery can have life-threatening consequences. If necessary, consult a doctor immediately.

Dispose of used batteries according to the instructions.

For the mobile battery version, remove the batteries from the device if it is not used for a longer period of time. Protect the system from direct sunlight to avoid high temperatures.

Avoid using the switch in strongly heated rooms and, if possible, keep it away from heat sources.

Keep the switch away from rooms with high humidity.

If the glass is damaged, e.g. due to a fall, the switch must not be used again. There is a risk of injury. Damage to the glass can lead to false triggering.



There is a risk of burns if the glass surface is too hot. Let the system cool down before using the device again.

1. INTRODUCTION

1.1. Description FELA SWITCH CAMSAMBI

The present switch series is a glass light switch developed in Germany with up to four capacitive sensor surfaces. Using energy-saving Bluetooth technology, lights and actuators can be switched and controlled within a self-created network using the CASAMBI protocol.

The standard version of the switch is available in three colours (black, white, silver-grey) and with up to four freely configurable buttons (capacitive sensor surfaces). The switch is operated by touching the sensor surfaces with a finger across the entire surface. The number of keys depends on the device version; the keys are also illuminated.

Several CASAMBI switches and lights form a mesh network based on the far-reaching Bluetooth 4.0 standard. The range of a single module is up to 20 meters.

Switches and lights can be configured and operated via the free CASAMBI App. The functions include switching on and off, dimming the light, setting the light colour (warm white - cold white) or RGBW, combining groups or creating and retrieving scenes.

The following versions are available:

Stationary 230 Volt (wall switch)

The glass switch is designed for stationary operation by means of a flush-mounted insert (power supply unit) and fits into the existing installation (socket). The packaging contains both the flush-mounted insert with the power supply unit and the glass front panel.

Mobile battery switch

The glass switch is battery operated and is embedded in a high-quality housing made of anodised aluminium.

2. INSTALLATION AND INITIAL OPERATION

2.1. Installation situation of stationary 230 V wall switches

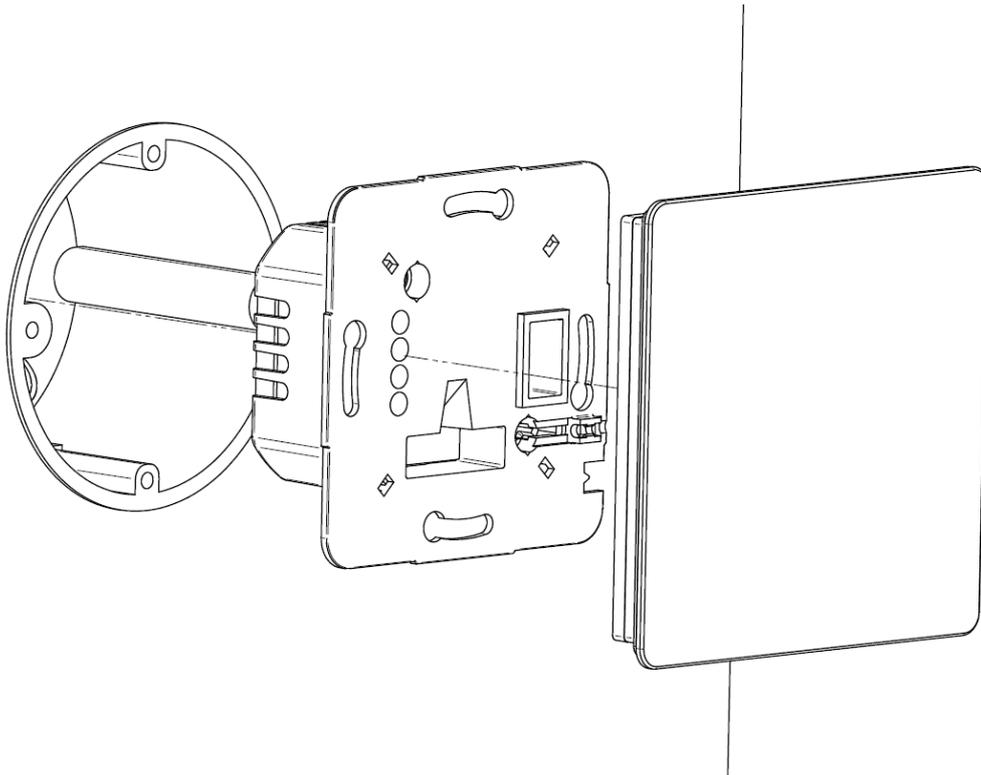


Fig.: Installation situation of stationary 230 V wall switches

2.2. Installation and electrical connection



The power unit must not be mounted or dismounted under voltage. Disconnect and check the connecting cables before starting work.

When selecting the installation location and drilling, pay attention to the run of electrical lines or existing supply lines.



DANGER!

Electric shock when touching live parts.

Electric shock can lead to death.

Before working on the unit, disconnect it and cover live parts in the environment.

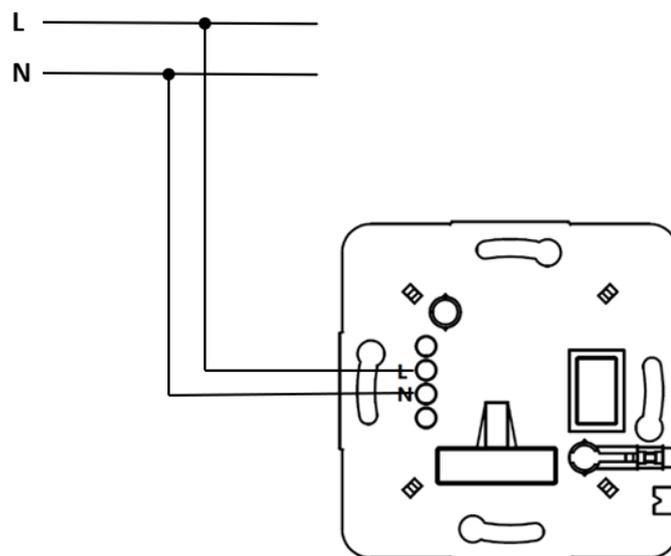


Fig.: Circuit diagram and connections

Make sure there is sufficient space for the connecting cables when installing the power section. Avoid the formation of trapped heat. The power section must be connected as shown above (L/N).

For this purpose, the connecting cables must be skinned approx. 6 - 8 mm. Then adjust the power unit and fix it using the mounting screws of the flush-mounted insert. Finally, the front cover must be pushed onto the power unit and clicked into place with an audible snap.

3. OPERATION

The device consists of one or more capacitive sensor surfaces that can be operated by touching the entire surface with a finger.

A "keystroke" is triggered by touching the glass surface on the sensor surface (marked areas).

A short touch triggers the (previously) stored function. A longer touch calls up the "Dimming" function.

After the button has been successfully pressed, it is illuminated for approx. 1 second for visual feedback.

3.1. Casambi App

The CASAMBI App offers a variety of useful features for the configuration of FELA SWITCH switches and CASAMBI-compatible lights or actuators.

The CASAMBI App is free and available in the App Store as well as in the Google Play Store. For configuration, the App must be opened and the Bluetooth function must be turned on.

By pressing any key of the FELA SWITCH, the automatic detection in the App is triggered. By tapping on "Add to ..." the desired network can be selected.

In the menu item "Switch", hidden behind "More", the individual buttons can now be configured. Each button can be assigned a scene, group, luminaire or all luminaires. Some options may not be available for all lights.

3.2. Integrating luminaires into a network

New lights or actuators can be assigned to an already existing network or to a previously created network. This is done by clicking on the module symbol and selecting the option "Add to ...".

The network to which the luminaire should belong can now be selected. The luminaire is then ready for smart configuration via CASAMBI App.

4. TECHNICAL DATA

	Stationär 230 Volt	Mobiler Batterieschalter
Operating voltage	220 – 240 V	3,3 V coin cell (CR2430)
Frequency	50 Hz	-
Power consumption	< 5 mA	< 50 µA
Certificate	CE	
Protection class	IP 20	
Connections	L / N	+ / -
Suitable for	Living and working spaces	
Operating temperature (non-condensing)	10 bis 30° C, ideal temperature 22 ° C	
Storage temperature	-20 °C to 60 °C	
Screw terminal	Up to max. 1,5 mm ²	-
Flush-mounted socked	yes	-
Mounting	socket	-
Signal transmission	Bluetooth 4.0 (Bluetooth Low Energy)	
Frequency	2,4 GHz	
Maximum transmission power	2,51 mW	
Range Bluetooth reception	Up to 30 m	
Surface	Glass in black, white or silver-grey	
Dimensions (L x W x H)	86 x 86 x 43,3 mm surface 11,6 mm	89 x 89 x 9,8 mm
Wallpaper compensation	max. 1 mm	-

4.1. Dimensional drawings

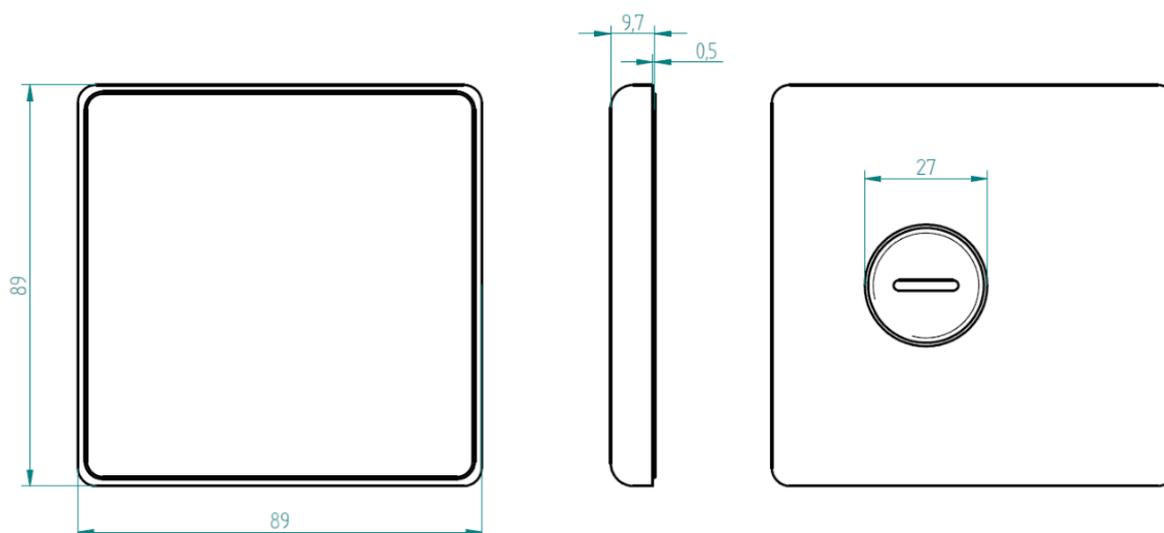


Fig.: Dimensional drawing of mobile battery switches

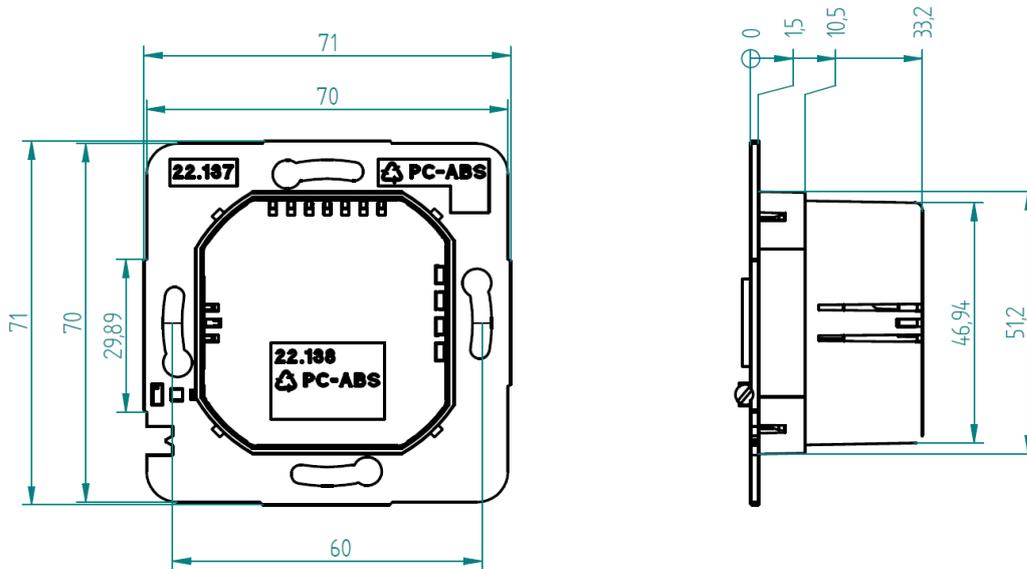


Fig.: Flush-mounted insert module for installation in the socket - stationary 230 V wall switch

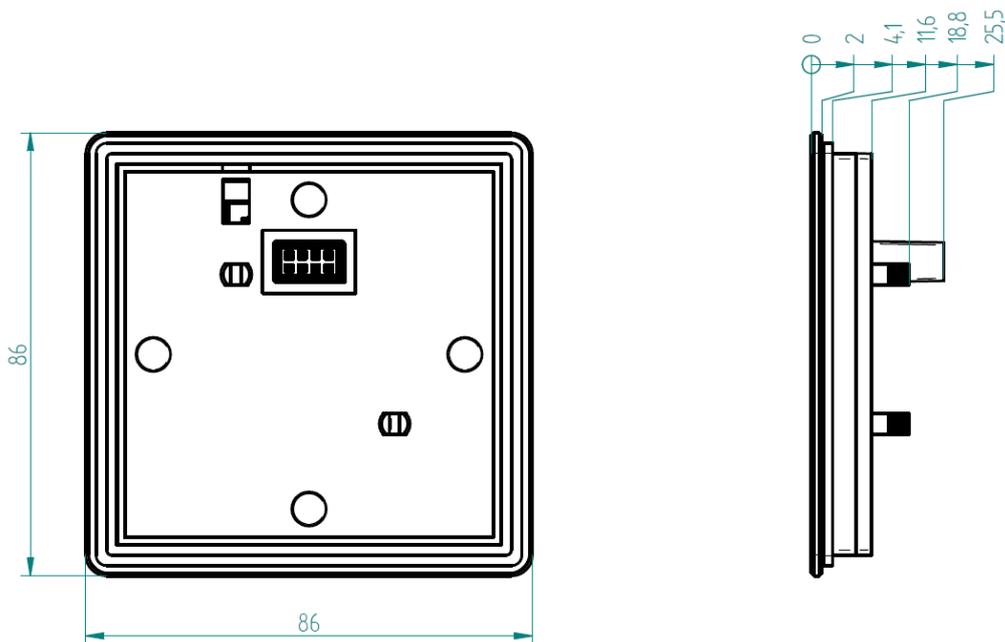


Fig.: Design module with glass front panel - stationary 230 V wall switch

5. MAINTENANCE AND MALFUNCTION

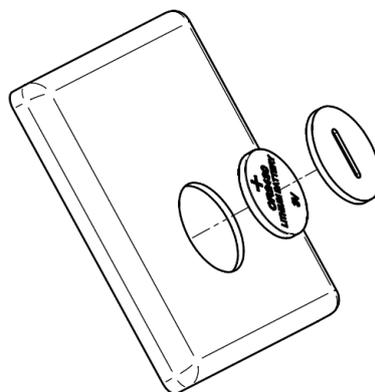
Malfunction	Cause	Remedy	Version
Sensors do not react	No power supply	Check connections or power supply	All versions
Sensors do not react	Fuse deactivated or defective	Check fuse and replace if necessary	Stationary 230 V wall switch
Controller malfunction		SOFT RESET - Press and hold 1 button for at least 10 seconds	1-way, 2-way switch, all versions
Controller malfunction		SOFT RESET - Keep 3 buttons pressed for at least 10 seconds	4-way switch, all versions
Controller malfunction		RESET - Disconnect the attachment from the socket and wait 10 seconds	Stationary 230 V wall switch
Controller malfunction		RESET - Remove battery and wait 10 seconds	Mobile battery switch

5.1. Battery change mobile switch

If the battery switch is used as intended, the batteries will last for about 1 year. Open the battery cover and replace the battery with a new one of type CR2430.

To open the battery compartment, carefully turn the battery cover with a plastic plate counterclockwise to open and clockwise to close. Opening the battery cover with a coin or other metallic object can cause scratches and damage.

 Only close the battery cover with the battery inserted.



5.2. Cleaning

Clean the glass front with a soft cloth moistened with a mild detergent. Then dry with another dry soft cloth. However, make sure that the system is not waterproof.

Do not use harsh detergents or chemical solvents; these can damage the product.

Incorrect triggering may occur during cleaning.

6. ENVIRONMENTAL PROTECTION AND DISPOSAL

Old devices must not be disposed of with household waste. According to EU regulations, electronic devices must be handed in at a designated collection point at the end of their service life. In doing so, the recyclable materials contained in the device are recycled and the burden on the environment is avoided.

Use the country-specific return and collection systems for the disposal of old electrical or electronic equipment and batteries.

Dispose of packaging materials in an environmentally friendly manner.



Pay attention to the disposal and recycling symbols attached to the packaging as well as the corresponding markings.

7. DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of FELA GmbH.

CE The product complies with the provisions for CE marking according to the following directives: RED 2014/53/EU RoHS 2011/65/EU

The CE mark is a free trade mark, which is addressed exclusively to the authorities and does not include any assurance of properties.

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Liability or further claims, in particular those for replacement, personal injury or damage to property beyond that of the device, due to missing or faulty function, are excluded.

We expressly reserve the right to make changes due to technical progress, changes in standards, modified production processes or design modifications.
