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Wireless actuator

Wireless socket heating actuator FSHA-230V

Temperature at mounting location:
0°C up to +35°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

1 NO contact nor potential free 10A/250V AC.
Encrypted wireless, bidirectional wireless
and repeater function switchable. Only 0.8
watt standby loss.

Adapter for German fused safety socket.
With increased shock protection.

Supply and switching voltage 230V. Zero
passage switching.

If a power failure occurs, the switching state
is retained.

Device is programmed to switch off when
the power supply is restored.

After installation, wait for short automatic
synchronisation before the switched
consumer is connected to the mains.

Encrypted sensors can be taught in.
Bidirectional wireless and/or a **repeater**
function can be switched on.

Every change of state is then confirmed by
a wireless telegram. This wireless telegram
can be taught in other actuators and the
GFVS.

**The FSHA evaluates the data of wireless
temperature controllers or sensors.**
**Can be supplemented by window/
door contacts, window handles, motion
detectors and wireless pushbuttons.**

The FSHA operates as a two-point
controller:

Switches off at 'actual temperature >= set
temperature'.

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temperature'.

Hysteresis is defined at 1°.

The **frost protection function** is always
enabled. As soon as the actual temperature
drops below 8°C, the temperature is regula-
ted to 8°C.

If one or several windows are open, the out-
put remains off **provided the window/door
contacts or window handles** are taught-in.
However, the frost protection remains ena-
bled.

As long as all taught-in **motion detectors**
detect no motion, the device is switched to
setback mode and the reference tempera-
ture is set back by 2°. As soon as a motion
detector signals movement again, the
device is switched to normal mode.

When a **wireless pushbutton** is taught-in,
the assignment of the 4 keys is assigned
with the following fixed functions:
Top right: Normal mode (AUTO), can also be
enabled by timer.

Bottom right: Night setback mode by 4°, can
also be enabled by timer.

Top left: Setback mode by 2°

Bottom left: Off (frost protection enabled)

If the motion detector and wireless push-
button are taught-in at the same time, the
last telegram received is always the one
that is valid. A motion detector therefore
switches off a setback mode selected by
wireless pushbutton when a movement is
detected.

Malfunction mode:

If a temperature sensor fails to receive a
wireless telegram for longer than 1 hour, the
LED lights up and the device switches to
fault mode. The FSHA-230V switches cycli-
cally between 'ON' for
4.5 minutes and 'OFF' for 10.5 minutes.

When a wireless telegram is again received,
the LED goes out and the device switches
back to normal mode.

The LED lights up during teach-in. Wireless
control commands are indicated by short
flickering during operation.

Teaching-in wireless sensors in wire- less actuators

**All sensors must be taught-in in the
actuators so that they can detect and
execute commands.**

The teach-in memory is empty on deli-
very from the factory. To ensure that
a device was not previously taught-in,
clear the memory completely:

Press the left button LRN/CLR for
approximately 3 seconds, the LED flashes
exitedly. Press the right button AUTO/*
approximately 5 seconds, the LED goes

out. All taught-in sensors are cleared, the
repeater and the confirmation telegrams
are switched off.

Clear individual taught-in sensors:

Press the left button LRN/CLR for
approximately 3 seconds, the LED flashes
exitedly. Press the sensor which is to be
cleared, the LED goes out. If all the func-
tions of an encrypted sensor are cleared,
teach-in must be repeated as described
under Teach-in encrypted sensors.

Teach in sensors:

Teaching in temperature controllers
FTR, FUTH, FTF and FTFB (set tempe-
rature 20°C), motion detectors, window/
door contacts, window handles and
GFVS:

Press the left button LRN/CLR for
approx. 0.5 seconds and then release.

The LED lights up.

Press the teach-in sensor. The LED goes
out.

Teach in wireless pushbuttons:

Press the left button LRN/CLR for approx.
0.5 seconds and then release. The LED
lights up. Briefly press the right button
AUTO/* once to confirm. The LED flickers
once. Press the teach-in wireless push-
button. The LED goes out.

Briefly press the LRN/CLR button to exit
the teach-in and clear mode immediately.
The teach-in and clear mode is automa-
tically cleared after 60 seconds.

To prevent unintentional teach-in, teach in pushbuttons by 'double- clicking' (pressing rapidly twice in succession).

1. Briefly press the left button LRN/CLR
button 2 times, the LED blinks 2 times
for confirmation.

2. Select the desired teaching-in function
with the right button AUTO/*.

3. Press the taught-in button with 'double
click'. The LED goes out.

Unencrypted and encrypted sensors can
be taught-in.

Teach in encrypted sensors:

1. Press the left button LRN/CLR for
approximately 0.5 seconds and then
release, the LED lights up.

2. Briefly press the right button AUTO/*

5 times, the LED flashes very excitedly.
3. Enable encryption of the sensor within 120 seconds. The LED goes out.

Attention! The power supply should not be turned off.

4. Now teach-in the encrypted sensor as described among teaching-in sensors.

If further encrypted sensors should be taught-in, go back to point 1.

With encrypted sensors, use the 'rolling code', i.e. the code changes in each telegram, both in the transmitter and in the receiver.

If a sensor sends more than 50 telegrams when the actuator is not enabled, the sensor is no longer recognised by the enabled actuator and you must repeat teach-in as 'encrypted sensor'. It is not necessary to repeat the function teach-in.

Switch on/off AUTO:

Briefly press the right button *AUTO*/*. Normal mode is switched off. Frost protection is activated.

The LED lights up for 0.5 seconds to signal the state.

Briefly press the right button *AUTO*/*. Normal mode is switched back on (as-delivered state).

To signal the state, the relay and the LED are switched on for 2 seconds.

Switch on/off repeater:

Press and hold the right button *AUTO*/* and plug the FSHA-230 V into the socket.

The repeater is switched on and off.

The LED lights up for 2 seconds to indicate the status = repeater off (as-delivered state) or for 5 seconds = repeater on.

Switch on/off confirmation telegrams:

Press and hold down the left button *LRN/CLR* and the right button *AUTO*/* together and plug the FSHA-230 V in the socket. Confirmation telegrams are switched on and off.

The LED lights up for 0.5 seconds = confirmation telegrams OFF (as-delivered state)

or for 2 seconds = confirmation telegrams ON to indicate the status.

Confirmation telegrams:

The FSHA-230 V sends a feedback message containing its own ID to the Eltako wireless network.

0x70 is sent when the relay is switched on.

0x50 is sent when the relay is switched off.

In addition, the data telegrams of taught-in temperature sensors are sent.

In defect mode, 0x00 is also sent every 5 minutes.

Teach in confirmation telegrams in other actuators or in the GFVS:

Press the right button *AUTO*/* to change the switch position and send the confirmation telegram at the same time.



May only be used in closed dry rooms.

The socket must be easily accessible.

Don't insert in a row.



THE UNIQUE WIRELESS PROFESSIONAL SMART HOME STANDARD

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FSHA-230 V is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: eltako.com

WEEE registration number DE 30298319

Must be kept for later use!

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03/2021 Subject to change without notice.