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Wireless sensor

Wireless motion detector and brightness sensor FBH55ESB-

Eltako

Temperature at mounting location: -20°C up to +50°C. Storage temperature: -25°C up to +70°C. Relative humidity: annual average value <75%.

valid for devices from production week 26/23 (see bottom side of housing)

Wireless motion detector and brightness sensor for single installation 80x80x27 mm or installation in the E-Design switch system. With solar cells and battery.

In the FBH mode factory setting, the sensor sends a , Motion' telegram every 60 seconds when motion is detected. If no more motion is detected, a , No motion' telegram is sent after 2 minutes. At the same time as motion or no motion is detected, brightness values are sent to the Eltako building wireless system.

The sensor sends a status message cyclically about every 17 minutes.

- The power supply is an internal 3 V CR2032 button cell and has a service life of several years. The battery is backed by the two solar cells which extend the service life of the battery provided there is sufficient light.
- The mounting panel can only be screwed on a flat surface or fixed to the ceiling or wall using the enclosed adhesive film.
- We recommend stainless-steel countersunk screws 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes.

In FBH mode, the left slide switch is up and the sensor can be taught in the following actuators:

F4HK14, FDG14, FDG71, FGM, FHK14, FHK61, FLC61, FSG14, FSG71, FSR14, FSR61, FSR71, FTN14, FTN61, FUD14, FUD61, FUD71.

If the left slide switch is pushed down, the device switches over to TF mode:

If the right slide switch 'active' is set to 'P' (passive), the sensor sends data for semiautomatic motion detection. Trained light actuators and dimming actuators switch off automatically if no new

- movement has been detected for 5 minutes. It is switched on using the light button. If the right slide switch 'active' is pushed to 'A' (active), the fully automatic motion detection is active.
- The sensitivity can be selected with the right sliding switch , sens'.
- 'H' = high or 'L' = low.
- The brightness threshold above which the sensor sends motion telegrams is set on the internal potentiometer.
- When motion is detected, the sensor sends a 'Motion' telegram every 60 seconds. If no more motion is detected, a 'No motion' telegram is sent after 2 minutes.
- The sensor sends a status message cyclically every 17 minutes.
- In TF mode the sensor can be taught-in in the following tap-radio actuators: FL62, FD62, FSLA and FASSA.

Start-up and installation:

- 1. Carefully raise the front panel using a small screwdriver and remove it. Then pull out the battery insulation.
- 2. If the sensor is bonded, please skip Point 3.
- 3. If you screw the mounting plate, the frame must be pulled off from the retaining plate. Now screw on the retaining plate and snap the frame back.
- 4. After adjustment and teach-in, snap the front panel back on.
- Attention: When snapping on the front panel, the polarity of the solar cells must be observed! To do this, align the Eltako inscriptions on the front and circuit board uniformly.
- To replace the battery, carefully lift and remove the front panel.

The position of the antenna must be observed:



To teach in an actuator set to teach-in mode or Professional Smart Home controller, press the teach-in button.

- FBH-Modus-Data telegram acc. to EEP: A5-08-01 Data_byte3 = voltage 0-5,1V (0-255)
- Data_byte2 = brightness 0-510 lux (0-255) Data_byte1 = -Data_byte0 = 0x0D = motion

0x0F = no motion

FBH mode teach-in telegram: 0x20080D85

TF mode data telegram acc. to

EEP: A5-07-01 Data_byte3 = -Data_byte2 = -

 $Data_byte1 = 0xC8 = semiautomatic$

motion detection 0xFF = fully automatic

motion detection 0x00 = no motion

Data_byte0 = 0x08 TF mode teach-in telegram: 0x1C080D80

Wall mounting



Ceiling Ceiling 3m Floor 5m



The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste.



Attention: Danger of explosion if battery is replaced improperly. Only replace it by an equivalent type! Manuals and documents in further languages



http://eltako.com/redirect/FBH55ESB-





ENOCEAN® 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 FBH55ESB- 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

Must be kept for later use!

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24/2023 Subject to change without notice.