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Eltako ELECTRONICS

Wireless sensor

CE

Motion/brightness sensor
FBH65TF/12 V DC

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

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

Wireless motion detector and brightness sensor with temperature and humidity sensor, for surface mounting 84x84x39 mm or mounting into the E-design switching system. Power supply from 12 V DC switch mode power supply unit. Standby loss only 1 mW. Smart Home Sensor. Brightness from 10 to 2000 Lux, temperature -20°C to +60°C, humidity 0% to 100%.

In delivery state, the energy storage is empty and must be charged before startup.

When operating with 12 V DC via the red/black connection cable, the sensor is ready for operation after approx. 3 minutes.

The complete module can be removed from the frame for screw mounting.

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. Set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.

To teach-in an actuator in teach-in mode, hold the supplied blue magnet or any other available magnet below the point on the side panel of the sensor marked by ■. This sends a teach-in telegram. First use the rotary switches to select the teach-in telegram to be transmitted for the time setting and the brightness threshold.

A red LED behind the Fresnel lens confirms transmission of the teach-in telegram by flashing briefly.

In delivered state, only **the pushbutton telegram** is activated. If the brightness threshold and motion detection settings are undershot, an 'on' pushbutton telegram is immediately sent twice to the Eltako wireless network. An 'off' pushbutton telegram is sent once on expiry of the time delay setting.

If **an FBH data telegram** is activated, a motion detection telegram is immediately sent twice. A switch-off telegram is sent once after approx. 1 minute without any motion detected. If a change in brightness of min. 10 Lux occurs, a telegram is sent every 100 seconds.

If **a TF data telegram** is activated, a telegram is sent immediately on motion detection, every 100 seconds if the temperature changes by min. 0.6°C or if the air humidity changes by at least 2%.

If no change occurs, a status telegram containing all the active data telegrams is sent approx. every 17 minutes.

The pushbutton telegram and the FBH and TF telegrams can be activated together.

The rotary switches for setting the time delay (1-10 minutes) and the brightness threshold (10-2000 Lux) are only evaluated for the pushbutton telegram and have no impact on the FBH data telegram.

The 'on' pushbutton telegram is taught-in to an actuator (e.g. FSR61, FSR14) as 'Central ON'.
The 'off' pushbutton telegram is taught-in to an actuator (e.g. FSR61, FSR14) as 'Central OFF'.

Send an 'on' pushbutton telegram:

1. Turn the left rotary switch for time setting to centre.
2. Turn the right rotary switch for brightness to left stop (anticlockwise).
3. Hold magnet at marked point on ■ housing. The red LED behind the Fresnel lens flashes briefly and an 'on' pushbutton telegram is sent.

Send an 'off' pushbutton telegram:

1. Turn left rotary switch to centre.
2. Turn right rotary switch to right stop (clockwise).
3. Hold magnet at marked point ■ on housing. The red LED behind the Fresnel lens flashes briefly and an 'off' pushbutton telegram is sent.

Activate and send a TF teach-in and data telegram: (EEP: A5-08-02)
Teach-in in suitable actuators (e.g. FHK61, FHK14, F4HK14) as temperature/humidity sensor.

1. Turn left rotary switch to right stop (clockwise).
2. Turn right rotary switch to left stop (anticlockwise).
3. Hold magnet at marked point ■ on housing. The red LED behind the Fresnel lens flashes briefly. A teach-in telegram is sent.

Remove magnet. The red LED behind the Fresnel lens flashes briefly. A TF data telegram is sent.

Deactivate TF data telegram:

1. Turn left rotary switch to right stop (clockwise).
2. Turn right rotary switch to right stop (clockwise).
3. Hold magnet at marked point ■ on housing. The red LED behind the Fresnel lens flashes briefly.

Activate and send a FBH teach-in and data telegram: (EEP: A5-08-01)
Teach-in in suitable actuators (e.g. FSR61, FSR14, FHK61, FHK14) as FBH.

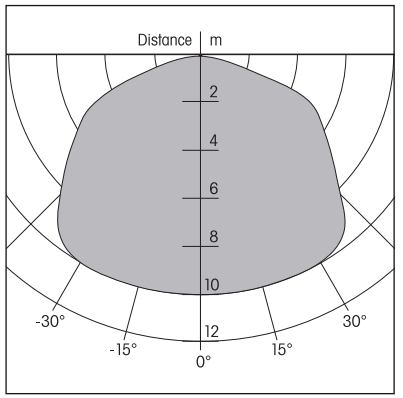
1. Turn left rotary switch to left stop (anticlockwise).
2. Turn right rotary switch to left stop (anticlockwise).
3. Hold magnet at marked point on ■ housing. The red LED behind the Fresnel lens flashes briefly. A teach-in telegram is sent.

Remove magnet. The red LED behind the Fresnel lens flashes briefly. An FBH data telegram is sent.

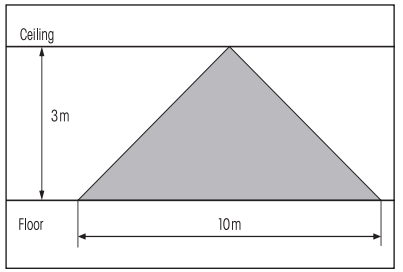
Deactivate FBH data telegram:

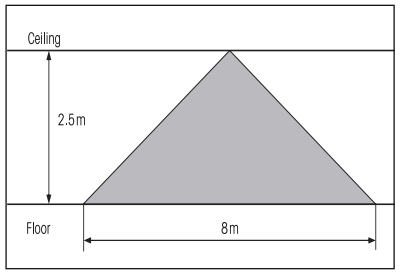
1. Turn left rotary switch to left stop (anticlockwise).
2. Turn right rotary switch to right stop (clockwise).
3. Hold magnet at marked point ■ on housing. The red LED behind the Fresnel lens flashes briefly.

Wall mounting



Ceiling mounting





EnOcean wireless

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FBH65TF/12 V DC 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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