



30 065 860 -1

Wireless sensor Motion/brightness sensor FBH65S/12V 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/brightness sensor for surface mounting 84x84x39 mm or mounting into the E-Design65 switching system. Power supply with the integrated solar cell or a 12V DC power supply unit. Only 1mW standby loss. Smart Home Sensor.

In the as-delivered condition, the energy storage is empty and needs to be charged before use.
When operating only with a solar cell, the energy storage must be charged for several days. For later operation, an ambient brightness of at least 200 lux is required in the daily average. When operating with 12V DC via the red/black connection cable, the sensor is ready for operation after approx. 3 minutes. If the connecting cable is not needed, it can be cut off. This means the sensor requires no installation depth behind the mounting plate. It can be screwed to any flat surface. 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.

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

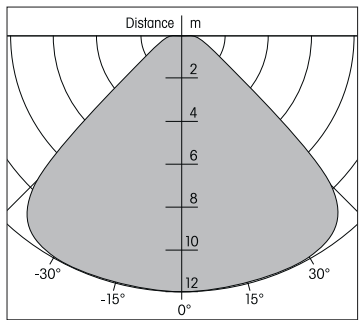
The sensor measures from 0 to 510 lux and transmits a message to the Eltako wireless network every 100 seconds if the brightness changes by min 10 lux.

If the sensor detects motion, it sends a signal twice immediately. The switch-off signal is sent after the off delay which has a fixed setting of 1 minute. If there is no change, a status message is sent every 20 minutes.

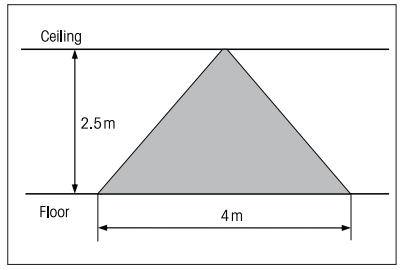
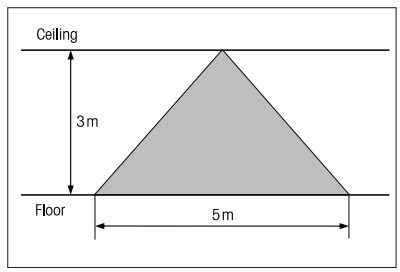
When teaching-in in actuators, the switching threshold is defined for switching the light on/off depending on the brightness.

If a FBH65S detects motion, then the device is switched on and only when all the FBH65S taught-in in an actuator fail to detect motion for one minute, the actuator return delay starts if this was previously set.

Wall mounting



Ceiling mounting



Wireless telegrams according to EEP A5-08-01 (Exceptions by Eltako)
Expanded brightness range, no Occupancy Button in DB0_Bit0)
ORG = 0x07
Data_byte3 = operating voltage 0..5,1V (0..255)
Data_byte2 = brightness 0..510 lux (0..255)
Data_byte1 = -
Data_byte0 = 0x0D = motion
 0x0F = no motion
Teach-in telegram: 0x20080D85

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 FBH65S/12V 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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03/2022 Subject to change without notice.