

Outdoor motion/brightness sensor

FABH130/230V

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 outdoor motion/brightness sensor pure white, 130x85x100mm, protection class IP55. 1 NO contact not potential free 10A/250V AC, incandescent lamps 2300 Watt. Only 0.9 watt standby loss 0,9 Watt.

Motion sensor for automatic lighting control depending on motion and brightness.

The wireless sensor sends 'pushbutton telegrams' to the Eltako Wireless Building system in the event of motion or non-motion.

Suitable for mounting on outdoor walls, for entrances, garages, gardens, corridors, parks, etc. Only designed for installation out of arm's reach.

Supply voltage and switching voltage 230V.

The sensor head can be turned by 30° downwards and by 90° to left and right.

Detection angle 180°, horizontal detection range max. 12m, frontal detection range max. 5m, mounting height 2 to 4m, additional creep under protection diameter 6m.

Light threshold value adjustable from 5 to 1000 lux and delay time from 1 second to 20 minutes. Mixed light measurement (daylight and artificial light) suitable for controlling LEDs, fluorescent tubes, light bulbs and halogen lamps. Zero cross switching for relay-saving switching and high lamp loads.

Teach-in the current brightness value, impulse function, test function to verify the detection range. Installable on flush-mounted box (60mm).

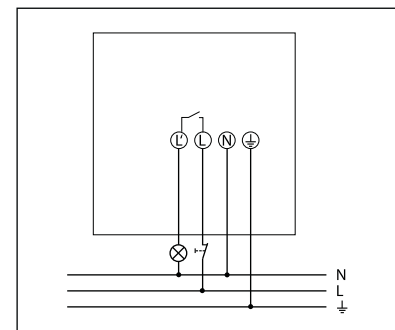
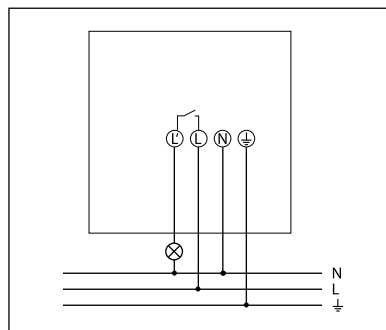
One-handed plug base installation. Immediate start-up due to pre-adjustment. Adjusting elements protected. Blind terminal for earth conductor.

2 screws and 2 rawl plugs included.

Teach in wireless sensor into an actuator:

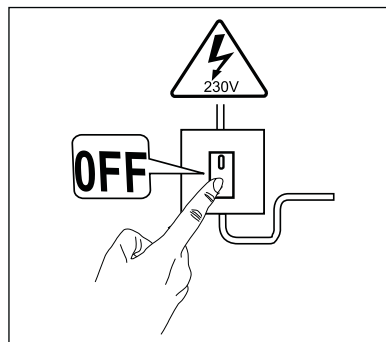
The wireless sensor is taught in as 'universal pushbutton' into an actuator in teach-in mode setting. To do this, switch on the wireless sensor power supply. The internal relay switches on and a 'pushbutton telegram' is sent. The flashing LED on the actuator then goes out. Operate the actuator in the ER function without EW time.

Typical connections

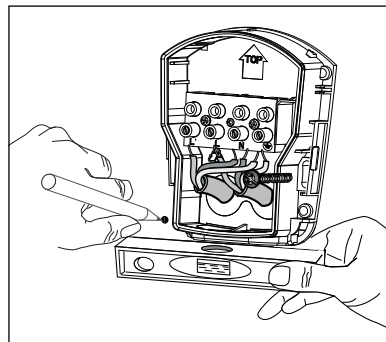


The device can be manually activated with a circuit breaker. After releasing the button (return of power) the device switches on (for at least 40 secs or for the time set on the device).

Mounting



■ Disconnect power source.

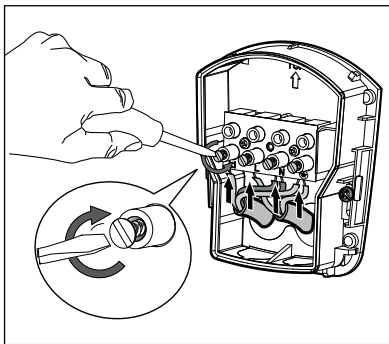


■ Make marks for the holes on the wall (with en-closed drill template/base).

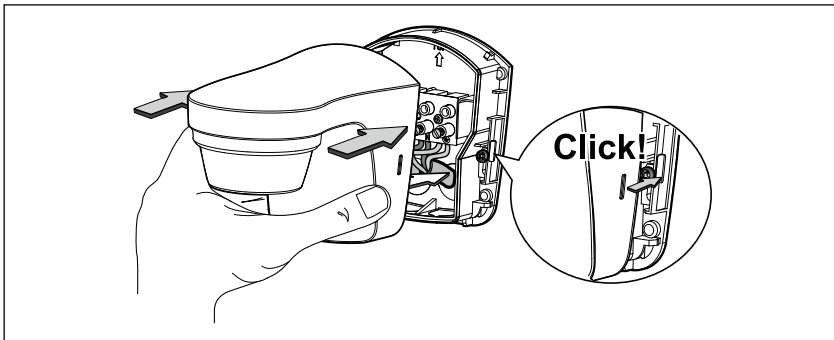
■ Drill holes.

■ Feed cable through the seal of the base.

■ Fasten base to the wall.

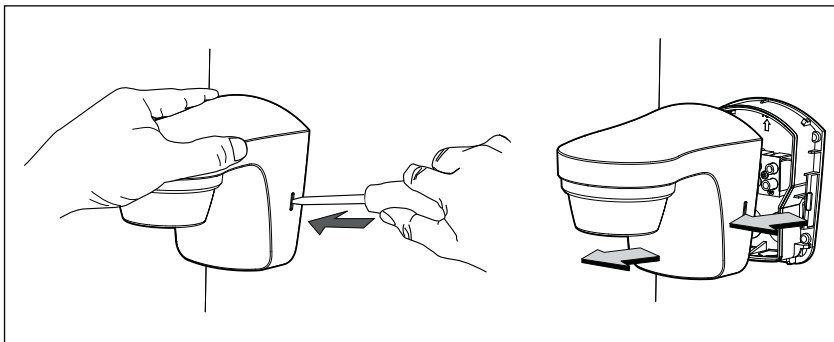


- Connect the individual wires to the appropriate terminal.



- Plug motion sensor into base and click in.

Dismantling

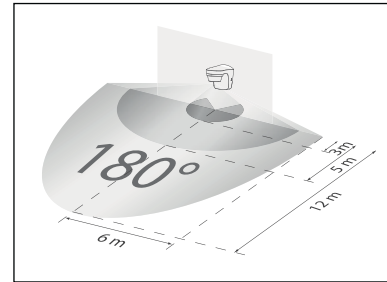
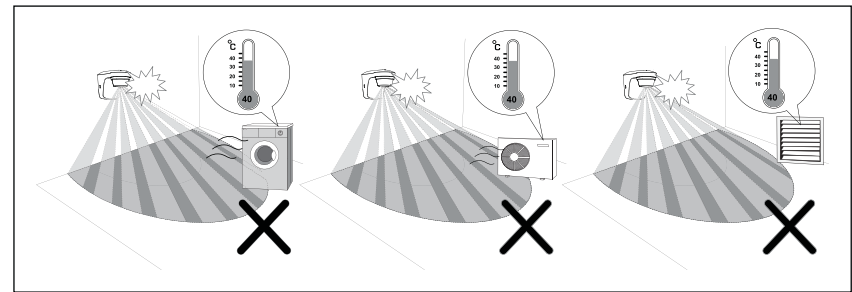


- Using the screwdriver, **carefully** loosen the snap-in hook at the side and pull the device forward.

Installation instructions

As the sensor reacts to variations in temperature, avoid the following situations:

- Do not direct motion sensor at objects with highly reflective surfaces such as mirrors etc.
- Do not install motion sensor near heat sources such as heating outlets, air conditioning systems, lamps etc.
- Do not direct the motion sensor at objects that turn in the wind such as curtains, large plants etc.
- Take account of motion direction during test run.

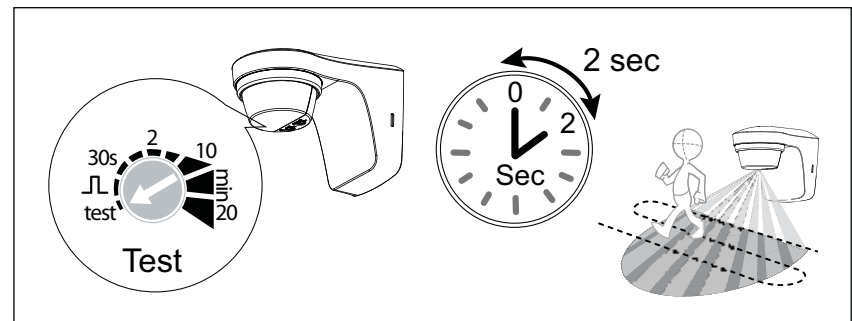


- Recommended installation height: 2-4 m
- Crosswise detection area: 12 m (crosswise to the detector)
- Frontal detection area: 5 m (in front of the detector)
- Detection angle: 180°

Direction test and alignment

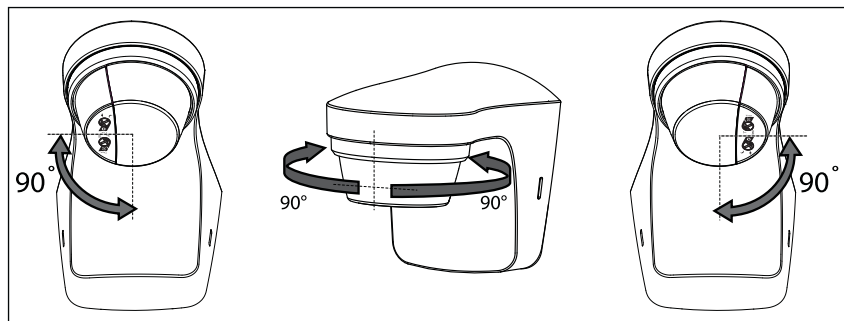
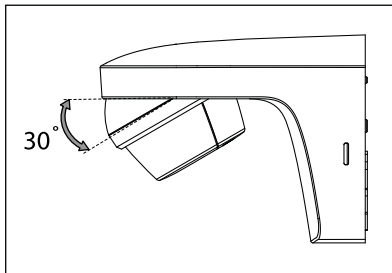
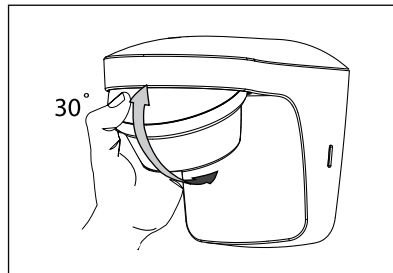
The walk test is used to test the detection range and to restrict it if necessary.

- Set the rotary switch (min) to test. The motion sensor now only reacts to movement (independent of brightness).
- Crosswise to the detection area. After the motion sensor has detected a movement, it switches on for 2 s.
- Note direction of motion during the test.



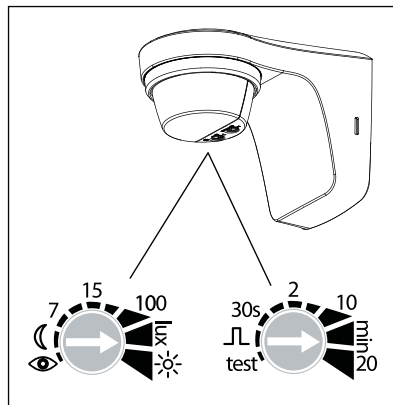
Align motion sensor with sensor head

The sensor head can be turned by 30° downwards and by 90° to left and right.



Setting

The motion sensor has two rotary switches underneath for setting the time (min) and brightness (lux).

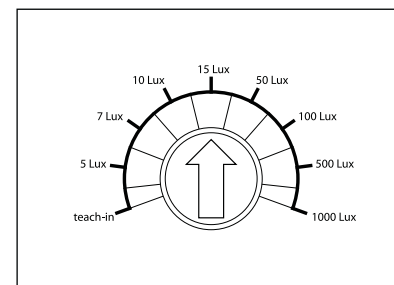
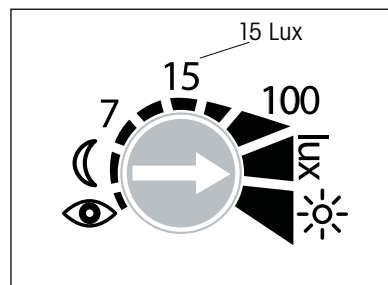


Set brightness (lux)

You can set different brightness values (lux) with the rotary switch.

If you want to change the preset brightness (15 lux default).

- Set rotary switch to desired brightness (5-1000 lux).



- or want a specific brightness value to be learned using the teach-in function.

- At the desired brightness set the rotary switch to . The value will be learned after 15 s.

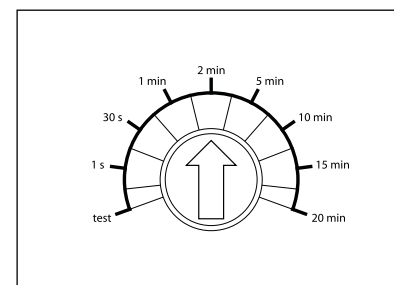
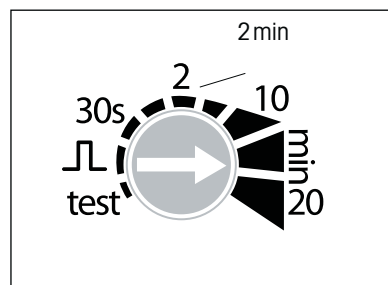
- Leave rotary switch at position .

Set time (min)

If the motion sensor detects no further movement, it switches off after the set time.

If you want to change the preset time (2 min default)

- set rotary switch to desired time (0,5 s-20 min).



If you want to use the pulse function (e.g. for a staircase light time switch)

- Set rotary switch to position . The motion sensor is switched on for <1 s, then off for 9 s. If it detects a movement again, it switches on again for 1 s.

Technical data	
Operating voltage	230 V AC, +10%-15%
Frequency	50 Hz
Standby	0.9 W
Detection angle	180°
Detection range	horizontal: max. 12 m, frontal: max. 5 m
Mounting height	2-4 m
Creep under protection	yes
Brightness setting range	5-1000/∞ Lux
Switching period range	5 s-20 min
Permissible ambient temperature	-25°C to +45°C
Protection class	II
Protection rating	IP55 according to EN 60529
Switching capacity	10 A (cos φ = 1) 6 A (cos φ = 0.6) 3 A (cos φ = 0.3)
Min. switching capacity	10 mA
Switching contact	μ terminal 230 V AC
LED lamps <2 W	25 W
LED lamps >2 W <8 W	90 W
LED lamps >8 W	100 W
Incandescent/halogen lamps	2300 W
Low-voltage halogen lamps	2300 VA
Fluorescent lamps (low-loss series devices)	uncorrected: 400 VA series corrected: 400 VA parallel-corrected: 400 VA (42 μF)
Fluorescent lamps (electronic series devices)	600 VA
Compact fluorescent tubes (electronic series devices)	150 W

ELTAKO GmbH hereby declares that the products that relates to this operating manual, are in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC.
A copy of the EU declaration of conformity can be requested at the address below.

Must be kept for later use!

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