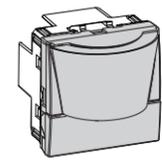


KNX Movement detector 180

Operating instructions



Art. no MGU3.533.xx

For your safety



DANGER

Risk of fatal injury due to electrical current
All work on the device must only be carried out by trained and skilled electricians. Observe the country-specific regulations as well as the valid KNX guidelines.

Getting to know the movement detector

The movement detector detects moving heat sources, (e.g. people), within a radius of 180° and up to a distance of approx. 9 m at a mounting height of 2.15 m.



The range refers to average conditions for the specified mounting height and is therefore a guide value. The range and sensitivity can vary greatly when the temperature fluctuates.

When a movement is detected, a defined data telegram is transmitted. The rotary switch for detection brightness is used to regulate from which ambient brightness level at which movements should be detected. Here, values between 10 and 1000 lux are possible (in the ETS value from 10 to 2000 lux are possible). The range and the overshoot time can be set at two further rotary switches.

The movement detector also has two movement sensors. You can set their sensitivity and range sector-specifically in the ETS.

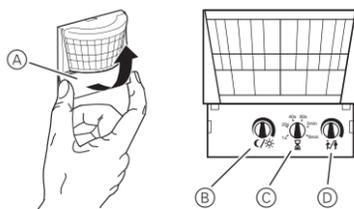
The movement detector has an integrated bus coupler and its power is supplied via KNX.

Using movement detectors with alarm systems

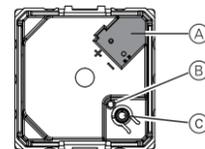


Movement detectors can trigger false alarms if the installation site has been chosen unfavourably. (see section "Selecting the installation site")

Connections, displays and operating elements



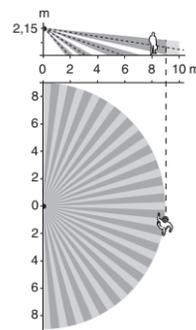
- (A) Cover
- (B) Setting the detection brightness
- (C) Setting the overshoot time
- (D) Setting the range



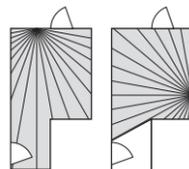
- (A) Bus connection
- (B) Programming LED
- (C) Programming button

Selecting the installation site

- Observe the area of detection: Any mounting height which deviates from this will affect the range.



- Install the movement detector laterally with respect to the direction of movement so that the beam paths are intersected as vertically as possible.
- Only mount the movement detector in positions which allow the required area to be monitored optimally.



- In order to ensure continuous monitoring, e.g. of a long hall, the areas of detection have to intersect.

- Movement detectors can detect all objects that radiate heat. You should select an installation site that will not result in undesired heat sources being detected, such as:

- switched-on lights in the area of detection
- open fires (such as in fireplaces)
- windows where the influence of alternating sunlight and clouds could cause rapid changes in temperature.
- larger heat sources (e.g. cars), that are detected through windows.
- sunlit rooms with reflecting objects (e.g. the floor), which can be the cause of rapid changes in temperature.
- windowpanes heated up by sunlight
- dogs, cats, etc.

- Install movement detectors in a wind-resistant switch box: With switch boxes and pipe cabling systems, a draught at the back of the equipment could trigger the movement detector.

- Avoid direct sunlight. This can destroy the sensor in extreme cases.

Mounting the movement detector

A frame is required for installation.

- 1 Connect the red bus wire to the red terminal (+) and the black bus wire to the dark grey terminal (-) (A).



- 2 Store the screen and the stability wire, as well as the white and yellow bus wire (B). They are not required.
- 3 Connect the terminal to the bus connection.
- 4 Put the movement detector into operation.
- 5 Mount movement detector with frame

Putting the movement detector into operation

- 1 Make the desired settings in the ETS.
 - 2 Press the programming button.
- The programming LED lights up.
- 3 Load the physical address and application into the device from the ETS.

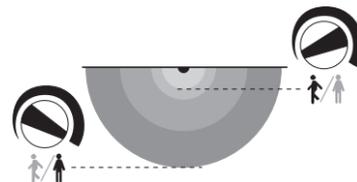
The programming LED goes out.

Setting the movement detector

Below the cover it is possible to adjust the range, the detection brightness and the overshoot time. These settings can also be made in the ETS.

Setting the range

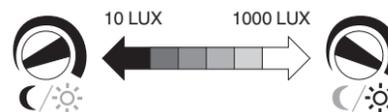
Here, you can set, in 10 steps, up to which distance movements are to be detected.



At maximum range, the movement detector detects smaller movements and therefore reacts more quickly to undesired sources of heat.

Setting the detection brightness

Here you can infinitely adjust, from which ambient brightness the device should be activated.



- Moon symbol: movements are only detected in the dark (up to approx. 10 lux).
- Sun symbol: movements are detected up to approx. 1000 lux
- Right stop: Movements are detected independently of the ambient brightness.

Setting the overshoot time

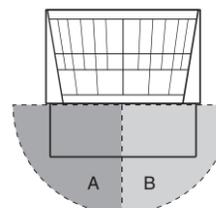
With the overshoot time you specify how long the connected load will remain switched on after the last movement has been detected. Depending on the ETS application, the overshoot time is either set in the ETS program (any time between 1 second and 255 hours) or directly on the device (six steps from approx. 1 second to approx. 8 minutes).



Depending on the settings in ETS, each registered movement can reset the overshoot time from the beginning. If the movement detector no longer switches off, it may be because it is continually detecting new movement and thus extending the overshoot time.

Setting the movement sensors

The movement detector has two movement sensors "A" and "B". You can regulate their sensitivity and range sector-specifically in the ETS.



Technical data

Power supply:	Via KNX
KNX connection:	bus connecting terminal
Angle of detection:	180°
Number of movement sensors:	2, sector-orientated, adjustable (ETS)
Recommended mounting height:	1 m to 2.5 m
Range:	at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness:	Infinite setting from approx. 10 lux to approx. 1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time:	Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
Display elements:	1 red programming LED
Operating elements:	1 programming button, rotary switch for detection brightness, range, and overshoot time

Ambient operating temperature:	-5 °C to +45 °C
EC guidelines:	EMC guideline 2004/108/EC
Initialisation:	Due to the limitation of the telegram rate, a telegram cannot be generated until 20 seconds after initialisation at the earliest.
Type of protection:	IP 20

Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.