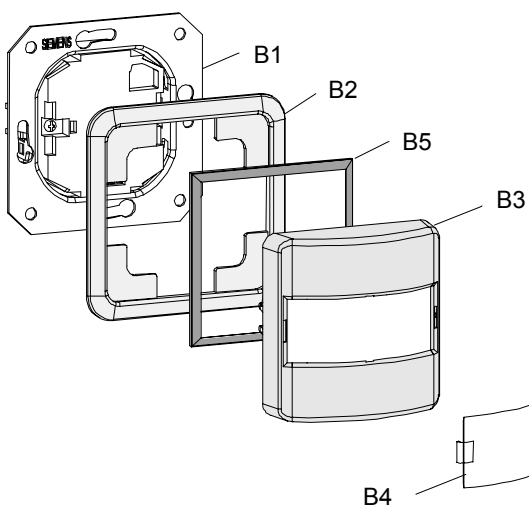


Motion detector UP 255, UP 256, UP 257, UP 258	5WG1 255-2AB__
	5WG1 256-2AB__
	5WG1 257-2AB__
	5WG1 258-2HB__



Product	DELTA profil	DELTA ambiente	DELTA style	DELTA i-system
Motion detector 1,10 m	5WG1 255-2AB01 pearl grey 5WG1 255-2AB11 titanium white 5WG1 255-2AB21 anthracite 5WG1 255-2AB71 silver	5WG1 256-2AB01 arctic white 5WG1 256-2AB11 cosmos grey 5WG1 256-2AB21 royal blue	5WG1 255-2AB11 titanium white 5WG1 257-2AB21 basalt black	5WG1 258-2HB11 titanium white 5WG1 258-2HB21 carbonmetallic 5WG1 258-2HB31 aluminiummetallic
Motion detector 2,20 m	5WG1 255-2AB02 pearl grey 5WG1 255-2AB12 titanium white 5WG1 255-2AB22 anthracite 5WG1 255-2AB72 silver	5WG1 256-2AB02 arctic white 5WG1 256-2AB12 cosmos grey 5WG1 256-2AB22 royal blue	5WG1 255-2AB12 titanium white 5WG1 257-2AB22 basalt black	5WG1 258-2HB12 titanium white 5WG1 258-2HB22 carbonmetallic 5WG1 258-2HB32 aluminiummetallic
Tier frame	-	-	5TG1 328 titanium white 5TG1 368 basalt black	must be ordered separately by used DELTA vita
Frame	must be ordered separately from the DELTA range			
Bus coupling unit	UP 110, UP 114			



- B1 Bus coupling unit UP
- B2 Frame
- B3 Motion detector *
- B4 Detachable masking plate *
- B5 Tier frame

*) Scope of supply

Diagram 1: Installing the motion detector

Motion detector UP 255, UP 256, UP 257, UP 258

5WG1 255-2AB	__
5WG1 256-2AB	__
5WG1 257-2AB	__
5WG1 258-2HB	__

Product and Applications Description

The motion detector UP 255 / UP 256 / UP 257 / UP 258 is a proximity sensor which reacts to movements of people, animals or other moving objects.

If a motion is detected the corresponding telegrams are sent on the bus. It is used for example to detect people moving in its monitoring area. Using an appropriate application program, it gives switching commands via the flush-mounted bus coupling unit to actuators such as binary outputs to switch groups of luminaries or to signalling units. The motion detector can be operated in stand-alone mode, as a master or extension unit.

Note:

The device is not fitted to be used in connection with alarm systems.

It is placed on the flush-mounted bus coupling unit, together with the relevant frame and is only operational when used together with the bus coupling unit and the corresponding application program i.e. the motion detector UP 255 / UP 256 / UP 257 / UP 258 (with flush-mounted bus coupling unit] consists of the device (hardware) and the application program (software).

The flush-mounted bus coupling unit and the relevant frame are not included with delivery and must be ordered separately. When using DELTA style a tier frame must be employed.

Using the detachable masking plate supplied (B4), it is possible to reduce the detection range on the left or right.

Application Programs**12 S1 Mot.detect. standalone 211D01**

- Brightness level can be set
- Cyclical sending is possible
- Overshoot time, dead time and blocking function

12 S1 Mot.detect. central 211E01

- Can be configured as a master unit in the case of multiple operation
- Brightness level can be set
- Cyclical sending is possible
- Dead time and blocking function can be assigned

12 S1 Mot.detect. branch 211F01

- Can be configured as an extension input in the case of multiple operation
- Brightness level can be set
- Overshoot time, dead time and blocking function

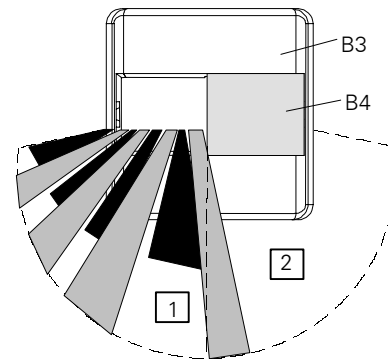


Diagram 2: Reducing the detection range

- 1** Detection range
- 2** Screened range
- B3 Motion detector
- B4 Detachable masking plate

Using the ETS software (*EIB Tool Software*), it is possible to select the application programs and assign the specific parameters and addresses.

Installation Instructions

- The device can be used for permanent interior installations, in dry rooms and for insertion in flush-type boxes.

⚠ DANGER

- The device must be mounted and commissioned by an authorised electrician.
- The device may not be inserted in the same box as 230 V devices.
- The device may be used in switch sockets, if VDE approved devices have been used.
- The prevailing safety and accident regulations must be observed.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Motion detector UP 255, UP 256, UP 257, UP 258

5WG1 255-2AB__

5WG1 256-2AB__

5WG1 257-2AB__

5WG1 258-2HB__

Technical data

Power supply

via the flush-mounted bus coupling unit

Operating elements

Potentiometer for stepless adjustment of the range between 100% and 20%.

Properties

- Light sensor: adjustable in steps from approx. 1 ... 1000 lx (daylight mode to night mode)
- Horizontal detection angle: 180 degrees on two levels (can be reduced to 90° on the left or right using a detachable masking plate)
- Range for mounting height of 1.10 m: approx. 10 m
- Range for mounting height of 2.20 m: approx. 10 m
- Lateral range: 2 x approx. 6 m each side
- Optical system: Fresnel lens (2 levels with 18 segments)

Connections

10-pole plug connector (PEI): for connection to the flush-mounted bus coupling unit

Physical specifications

- Housing: plastic
- Dimensions (L x W x D): 65 x 65 x 23 mm / 55 x 55 x 23 mm
- Weight: approx. 45 g
- Fire load: approx. 750 kJ ± 10 %
- Mounting: clipped onto the flush-mounted bus coupling unit
- Mounting height: 1.10 m / 2.20 m

Electrical safety

- Degree of pollution (according to IEC 60664-1): 2
- Type of protection (according to EN 60529): IP 20
- Protection class (according to IEC 61140): III
- Overvoltage category (according to IEC 60664-1): III
- Bus: safety extra-low voltage SELV DC 24 V
- Device complies with EN 50 090-2-2 and IEC 60664-1

EMC requirements

Complies with EN 50081-1, EN 61000-6-2 and EN 50090-2-2

Environmental conditions

- Climatic withstand capability: EN 50090-2-2
- Ambient temperature during operation: - 5 ... + 45 °C
- Storage temperature: - 25 ... + 70 °C
- Relative humidity (not condensing): 5 % to 93 %

Markings

KNX / EIB

CE mark

in accordance with the EMC guideline (residential and functional buildings) and the low voltage guideline

Location and function of the operating and display elements

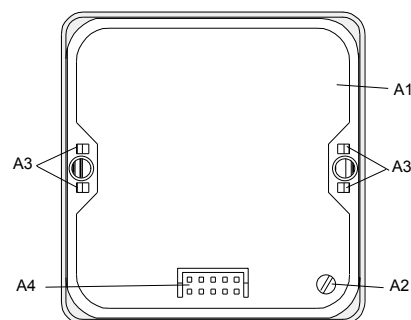


Diagram 3: Motion detector rear view:
Location of the display and operating elements

- A1 Motion detector UP 255 / UP 256 / UP 257 / UP 258
- A2 Potentiometer for setting the range (left limit stop 20%, right limit stop 100%)
- A3 Mounting springs
- A4 10-pole plug connector (PEI)

Motion detector UP 255, UP 256, UP 257, UP 258	5WG1 255-2AB 5WG1 256-2AB 5WG1 257-2AB 5WG1 258-2HB
-------------------------------------------------------	------------------------------------------------------------------------------------------

Representation of the detection ranges

Mounting height type	Spatial view	Top view	Side view
1,10m			
2,20m			
Type 2,20 Mounting height 1,10			

Diagram 3: Representation of the detection ranges

Mounting

Note:

- The installation site and type of installation should be carefully selected according to the area that is to be monitored while considering any possible interference. The mounting wall should not be exposed to vibration or motion, as any movement of the motion detector has the same effect as thermal movement in the detection area. In order to prevent unwanted switching operations, the motion detector should if possible be installed so that it is not exposed to direct sunlight. Air turbulence caused by heaters, vents from air-conditioning units, dropping leaves of flowers etc. can also trigger switching operations in the monitoring area of the motion detector. Since infrared radiation is largely absorbed or reflected by glass, plastic, brickwork, metal and cardboard, it is not picked up by the motion detector.

Depending on the lamp type, fluorescent lamps and incandescent lamps may not be placed less than 1-3 m away from the motion detector in the detection area. Otherwise, the motion detector may be switched on again due to the thermal variation in the sensor range generated when the lamp is switched off.

- The optimum range is achieved if the sensor is mounted sideways to the direction of movement. There could otherwise be a reduction in the range.
- Sources of interference (lamps, heating systems etc.) should be excluded from the detection area (e.g. using the detachable masking plate).
- Sensors should not be aligned towards the sun. The high level of thermal energy can destroy the sensors.
- In the event of voltage recovery and after each programming process, it is necessary to wait for an immunity period of approx. 80 seconds before the motion detector is ready for operation again. No telegrams are sent by the motion detector during this time.

Motion detector UP 255, UP 256, UP 257, UP 258

5WG1 255-2AB__

5WG1 256-2AB__

5WG1 257-2AB__

5WG1 258-2HB__

General description

The motion detector is placed on the flush-mounted bus coupling unit together with the relevant frame (DELTA profil cut-out, DELTA ambiente or DELTA style with the relevant tier frame).

Mounting sequence

- The flush-mounted bus coupling unit is connected and fixed in position in the flush-type box (see installation instructions for the flush-mounted bus coupling unit).
- If required, the uninstalled detachable masking plate (B4) is inserted on the left or right of the motion detector and induced to click into place by a strong pressure onto the 4 mounting clamps.
- It must not be forgotten to adjust the potentiometer for setting the range (A2) of diagram 2.
- Place the motion detector (B3) with the relevant frame (B2) on the flush-mounted bus coupler (B1).
- The brightness limit is set in the application program.
- It is possible to check the function of the detector or the detection area after programming by carrying out a walk test (according to detection area in Diagram 3). Before this the setting "maximum" has to be selected for the brightness and the setting "minimum" has to be selected for the switching interval in the parameter list.

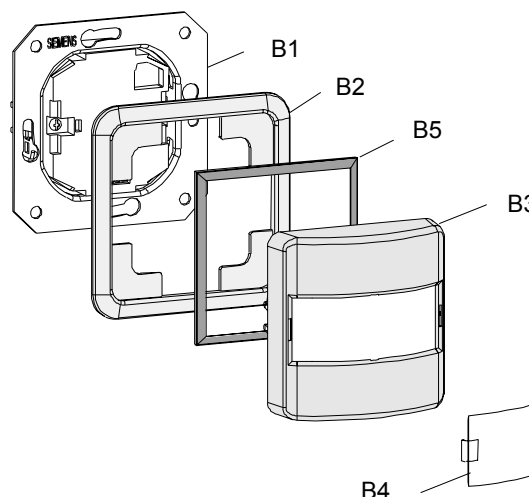


Diagram 4: Installing the motion detector

- B1 Flush-mounted bus coupling unit
- B2 Frame
- B3 Motion detector
- B4 Detachable masking plate
- B5 Tier frame

Dismantling

The motion detector (B3) together with the frame is manually removed from the flush-mounted bus coupling unit (B1).

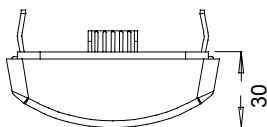
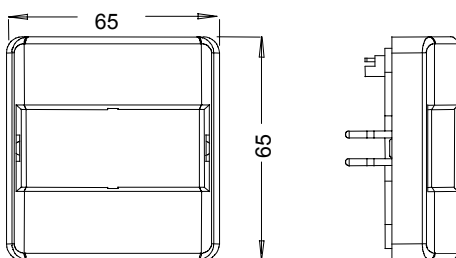
If a modification of the viewing area is required, the detachable masking plate can be removed careful.

Motion detector UP 255, UP 256, UP 257, UP 258	5WG1 255-2AB__
	5WG1 256-2AB__
	5WG1 257-2AB__
	5WG1 258-2HB__

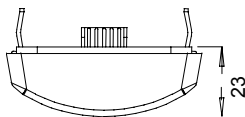
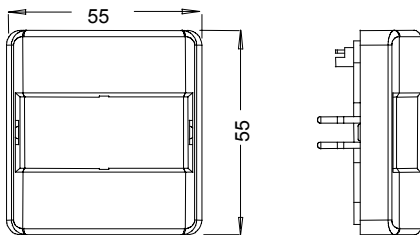
Dimensions Diagram

Dimensions in mm

UP 255 / UP 256 / UP 257



UP 258



General Notes

- Any faulty devices should be returned to the local Siemens office.
- If you have further questions about the product, please contact our Technical Support:

☎ +49 (0) 180 50 50-222
☎ +49 (0) 180 50 50-223
✉ adsupport@siemens.com