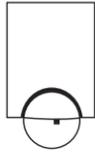


**Radio ARGUS 220 CONNECT**

Operating instructions

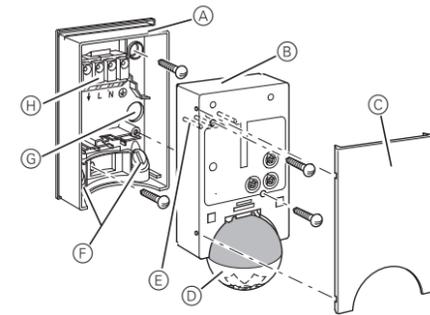


Art. no. MTN5052-31..

**Using ARGUS with alarm systems**

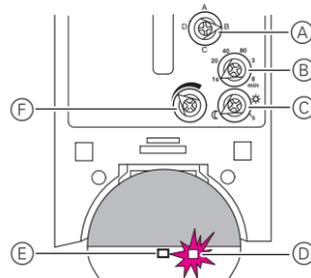
- i** Movement/presence detectors are not suitable for use as components of an alarm system.
- i** Movement/presence detectors can trigger false alarms if the installation site has been chosen unfavourably.

Movement/presence detectors switch on as soon as they detect a moving heat source. This can be a person, but also animals, trees, cars or differences in temperature in windows. In order to avoid false alarms, the chosen installation site should be such that undesired heat sources cannot be detected (see section „Selecting the installation site“).

**Connections, displays and operating elements**

- A Wall connection box
- B Top section
- C Cover plate
- D Sensor head
- E Contact pins
- F Cable routing for connecting cable from underneath
- G Cable routing for connecting cable from behind
- H Terminal block for the connecting cable and for locating the contact pins

The ARGUS operating elements are protected under the cover plate. The arrow's position on the controllers shows you the set values.



- A ARGUS settings controller
  - A = Operating mode
  - B = Learning mode (also for PC-Tool)
  - C = Reset
  - D = Adopt potentiometer settings
- B Switching duration controller
- C Brightness threshold controller
- D Functional display (lights up each time movement is detected)
- E Brightness sensor (must not be covered)
- F Sensitivity controller

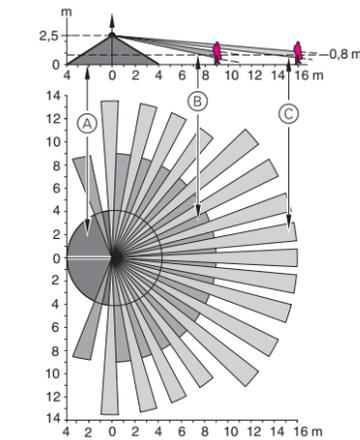
**Selecting the installation site**

Explanation of the symbols used

- OK** Correct
- ✗** Not optimal
- ✗** Incorrect

When selecting a suitable installation site, you should take a number of factors into account so that the movement detector operates optimally.

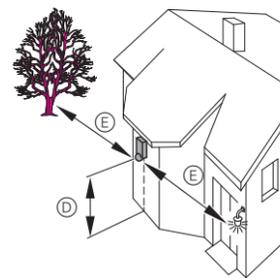
- i** The following figure shows the ranges of the ARGUS at average temperature conditions and a mounting height of 2.5 m. The range of a movement detector can vary greatly depending on the temperature.



**Inner security zone (A):** Angle of detection 360° over a radius of approx. 4 m.

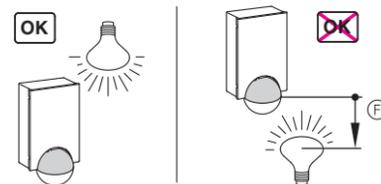
**Middle security zone (B):** Angle of detection 220° with an area of detection of approx. 9 m x 18 m.

**Outer security zone (C):** Angle of detection 220° with an area of detection of approx. 16 m x 28 m.



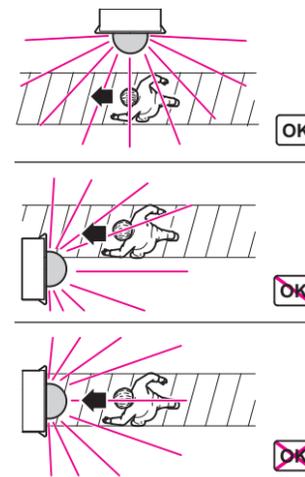
**Mounting height (D): 2-3 m.** For optimum monitoring, we recommend a height of 2.5 m on a solid and even base.

**Minimum distance (E) to sources of optical interference: 5 m** If necessary, use the segments supplied to shade the device.

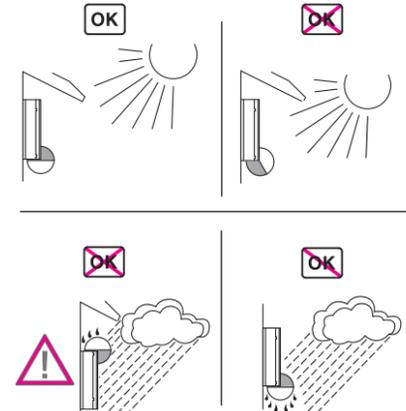


**Minimum distance (F) between luminaire and movement detector: 5 m.** If this distance cannot be achieved, you can use the segments provided to "mask" the light source from the area of detection.

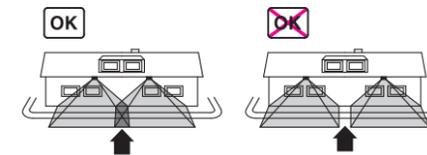
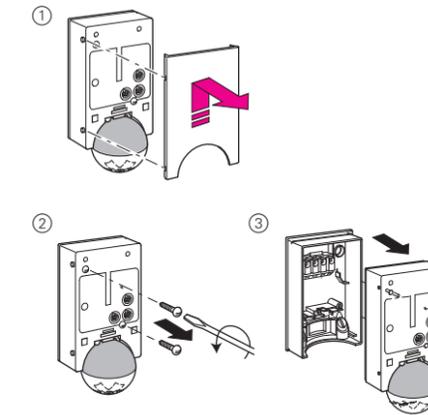
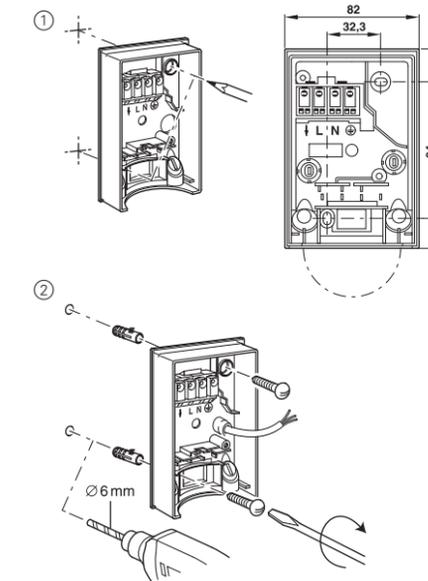
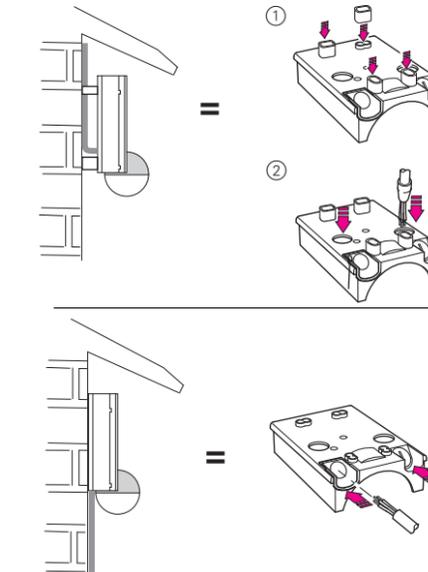
If possible, install the movement detector sideways to the direction of movement.



To avoid the connected load being switched on due to environmental influences, the ARGUS should be installed so that it is protected against rain and direct sunlight. A raindrop running over the lens, for example, can activate the movement detector.

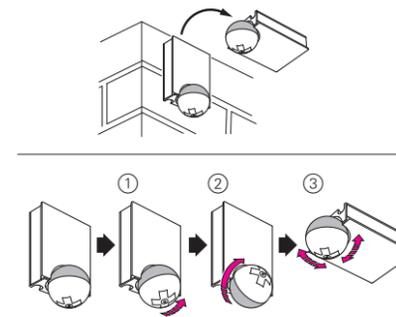


If you wish to attach several movement detectors, install them so that the detection areas of the individual movement detectors intersect each other.

**ARGUS installation****Dismantlement of the top section of the ARGUS****Installing the ARGUS to the wall****Feeding in the connecting cable****Installing the ARGUS on the ceiling**

In order to install the ARGUS on the ceiling, you must rotate the sensor head. Change the direction of rotation once you have reached the end stops.

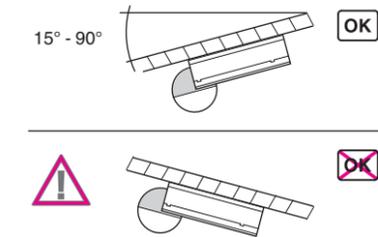
- 1 Turn the sensor head upwards as far as it will go.
- 2 Turn the sensor head clockwise as far as it will go.
- 3 Align the sensor head.



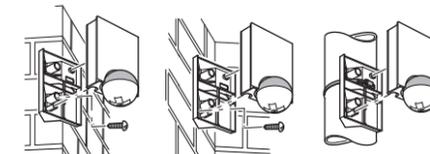
**CAUTION**  
**If not installed correctly, the device can be damaged by condensation.**

In the case of sloping ceilings, install the device so that spherical head is pointing down and always at an angle of 15° - 90°. When the spherical head points downwards, any water from condensation could run down the device.

- i** Type of protection IP 55 cannot be guaranteed if the mounting bracket is not 15° - 90°.

**Installing the ARGUS on corners and fixed pipes**

You can attach the ARGUS to inner/outer corners or fixed pipes using the mounting bracket (art. no. MTN5652..). You can feed the connecting cable to the device from behind through the mounting bracket.



## Connecting the ARGUS

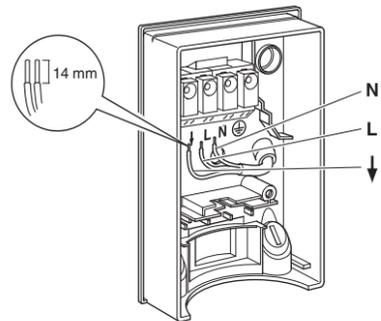
### CAUTION

#### The device can become damaged.

Operation only possible with sinusoidal mains voltages. Phase control dimmers or inverters with square-wave or trapezoidal voltage curves will damage the device.

Protect the ARGUS using a 16 A circuit breaker.

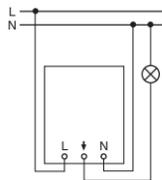
When switching inductive loads such as transformers, relays, contactors or fluorescent lamps, spikes occur which could lead to the load being switched on again ("maintained light effect"). Connect a capacitor in parallel to the inductive load to reduce these spikes.



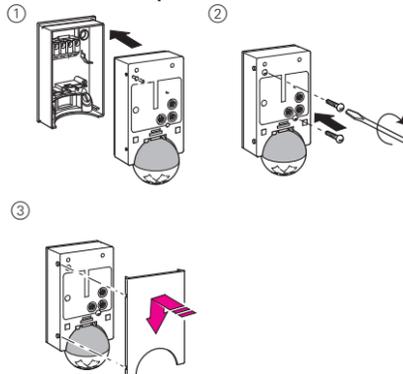
"Through-wiring" to other loads is permitted.

### ARGUS permanently connected to the mains

The ARGUS constantly monitors its area



### Installation of the top section of the ARGUS



The ARGUS can now be put into operation.

### Putting ARGUS into operation

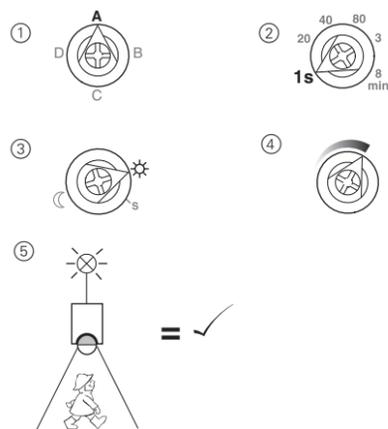
1 Connect the supply voltage.

The load is switched on for approx. 10 s or for the set period. The functional display lights up for approx. 10 s.

2 Teach the remote control.

### Conducting a functional test

The brightness sensor must not be covered up.



The functional display lights up each time movement is detected.

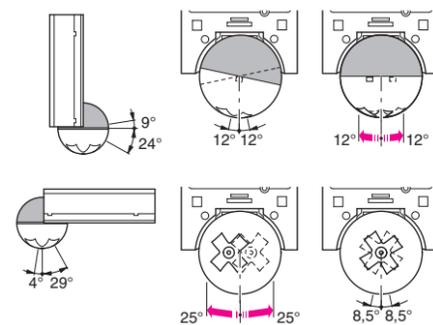
### Setting up the ARGUS manually

### CAUTION

#### The device could become damaged.

The sensor head should only be rotated until it reaches the stop and no further. To achieve an angle "above" the stop, change the direction of rotation.

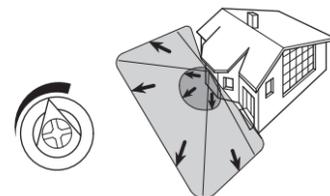
1 Align the sensor head in the direction of the area that is to be monitored.



2 From its edge step into the area of detection to see whether the ARGUS switches the load and the functional display as required.

### Setting the sensitivity

Here you can infinitely set the distance up to which ARGUS detects movements (any distance up to max. 16 m).

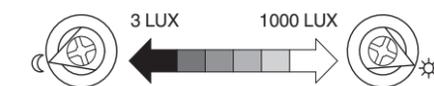


### Setting the brightness threshold

Here you can infinitely set the ambient brightness level at which the ARGUS detects movements and triggers a switching procedure.

– Moon symbol (night operation): The ARGUS will only detect movements during the hours of darkness (approx. 3 lux).

– Sun symbol (day and night operation): The ARGUS detects movements up to approx. 1000 lux.



### Setting the switching duration

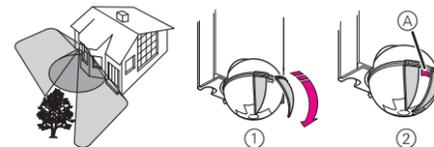
Here you can set how long the loads connected to ARGUS are switched on for. When a movement is detected, the load is switched on and stays switched on until the set period has elapsed. Every further movement restarts the switching duration.



The ARGUS ignores the light-sensitive switch once the load has been switched on. If the movement detector does not switch the load off again, the reason probably is that the ARGUS constantly detects further movements and thus keeps restarting the switching duration.

### Blocking out individual areas

Using the four segments supplied, you can block out unwanted zones and sources of interference from the area of detection.



Ensure that the brightness sensor (A) is not covered, as the sensitivity to light is otherwise reduced.

Turn the controller (A) on the ARGUS back to position A: The ARGUS is ready to use.

### Resetting the ARGUS

#### Reset to the factory settings

Under certain circumstances, it may be necessary to reset this device to its factory settings and to reconfigure it:

CAUTION Malfunctions can occur! When resetting to the factory settings, all the settings and connections for this CONNECT device are deleted. Maybe the radio system is not working any longer and must be reconfigured (See the separate description of the CONNECT radio system).

1 Turn the controller (A) on the ARGUS to position C.

2 After approx. 1 s the LED flashes short: The device has now been reset to its factory settings.

## Radio ARGUS in the CONNECT radio system

As a component of the radio system CONNECT you can connect the ARGUS with 5 additional CONNECT devices.

If you want to connect the ARGUS with other CONNECT devices (excepted the radio ARGUS 220 CONNECT), you should do this connection via the CONNECT radio USB data interface (with a corresponding PC) and the CONNECT radio configurator.

1 Turn the controller A on the ARGUS to position B: The learning mode is activated.

### What should I do if there is a problem?

You can analyse and check faults throughout the radio system with the help of the CONNECT radio USB data interface (on a suitable PC) and the CONNECT radio configuration tool.

### The device is not reacting to the transmitter

- Make sure that the maximum range is not exceeded and that there are no metal surfaces such as metal cabinets in the radio transmission path.
- If necessary, check that the device is connected correctly to the supply voltage.
- Make sure that the device is not in programming mode. (If the LED is constantly flashing or constantly lit up, this is the case).
- If necessary, repeat the programming process again.

## Technical data

### ARGUS

Nominal voltage: AC 230 V ±10%, 50 Hz  
Fuse: Protect the ARGUS using a 16 A circuit breaker.

Max. switching current: 16 A, AC 230 V, cosφ = 1

Nominal output

Incandescent lamps: AC 230 V, max. 2000 W

Halogen lamps: AC 230 V, max. 1200 W

Fluorescent lamps: AC 230 V, max. 1200 W, uncompensated

Capacitive load: 35 µF

Transformer load: max. 600 VA

Power consumption: < 1 W

Connecting terminals: for 2x1.5 mm<sup>2</sup> or 2x2.5 mm<sup>2</sup> rigid conductor, stripped length 14 mm

External diameter of one cable: max. 14.5 mm

Angle of detection: 220°

Range: max. 16 m

Number of levels: 7

Number of zones: 112 with 448 switching segments

Minimum mounting height: 1.7 m

Recommended mounting height: 2.5 m

Sensitivity: infinitely adjustable

Light sensor: infinitely adjustable externally, from appr. 3 lx to appr. 1000 lx

Switching duration: externally adjustable in 6 levels of approx. 1 s to appr. 8 min

Possible settings for sensor head

Wall mounting: 9° up, 24° down, 12° left/right, ± 12° axial

Ceiling mounting: 4° up, 29° down, 25° left/right, ± 8.5° axial

Type of protection: IP 55 at an angle of inclination from 15° to 90°

EC directives: Low-voltage guideline 2006/95/EC  
EMC directive 2004/108/EC

Information for experienced users who want to use this device with Z-wave compatible devices from other manufacturers:

### Z-wave device type Enhanced Slave

Learn-Mode: Turn the controller (A) on the ARGUS to position B. LED flashes for a period of approx. 6 s (for integration into Z-wave systems of other manufacturers)

Transmit „Node Info Frame“: Turn the controller (A) on the ARGUS to position B

List of functions	Parameter number
Power-on time	181, 182

### Association Group Verwendung

1	Master (Output Light Control)
2	Report (Output „Status Report“)

### Z-wave designation CONNECT designation

Inclusion: Program (transmits Node Info Frame), see the separate description of the CONNECT radio system

Exclusion: Reset to the factory settings; complete programming

Primary: Device with system administration

This device can be used with other Z-wave compatible devices; also with devices from other manufacturers. Each Z-wave compatible device can be added to a Z-wave system and also works as a router unless the routing of orders is supported. The configuration of a CONNECT radio system is described in the separate "CONNECT radio system" description. Some programming is only possible with devices that are compatible with the CONNECT radio system.

### Schneider Electric Industries SAS

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

www.schneider-electric.com