

ARGUS Presence Slave

User Guide



Art. no. MEG5570-1019

Accessories

- Surface-mounted housing for ARGUS Presence (Art. no. 550619)
- PlusLink Expander (Art. no. MEG5130-0000)

For your safety**DANGER****HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

DANGER**HAZARD OF ELECTRIC SHOCK**

The PlusLink carries an electrical current and the outputs may carry an electrical current even when the device is switched off.

- Before working on the device or the loads, always disconnect the device from the supply via the upstream miniature circuit breaker.

If one or more PlusLink lines are separately fused in your installation then they are not electrically isolated from one another.

- In this case, you should use the PlusLink Expander.

Failure to follow these instructions will result in death or serious injury.

Notice**HAZARD OF EQUIPMENT DAMAGE**

The voltage differential between different phases can damage the device. All devices connected to one or more PlusLink lines must be connected to the same phase.

Failure to follow these instructions can damage the device.

Notice**HAZARD OF EQUIPMENT DAMAGE**

- Ensure that the device is disconnected from its circuit during the insulation resistance test.

Failure to follow these instructions can damage the device.

Getting to know ARGUS Presence Slave

The ARGUS Presence Slave (referred to below as **ARGUS**) is a presence detector for interior ceiling mounting. The ARGUS comprises a sensor module and a central unit insert (referred to below as **insert**). The ARGUS can be mounted either in a flush-mounted socket or in surface-mounted housing (available as an accessory). It detects moving heat sources (e.g. people) within an adjustable area of detection and sends a trigger command to the PlusLink (PL).

The maximum detection radius is approx. 7 m. The angle of detection is 360°. As long as a movement is detected, the ARGUS sends trigger commands to the PlusLink (trigger function).

i The specified detection radius refers to average conditions and a recommended mounting height of approx. 2.50 m and should therefore be taken as guide values. The range can vary greatly when the temperature fluctuates.

The insert makes it possible to switch a global staircase lighting function by sending a trigger command.

- Central unit insert

Sensor module:
staircase lighting function **independent** of brightness and sending of a trigger command

Using the insert, you can control all receiving devices in up to four PlusLink lines.

Receiving devices include, for example, the following devices:

- ARGUS Presence master with IR, relay 1-gang/2-gang
- ARGUS Presence master with IR, DALI
- ARGUS Presence master with IR, 1-10 V

The insert has four PlusLink outputs for connecting to the PlusLink lines. To be able to use the PlusLink (PL), you require a separate core in your installation for each PlusLink line.

Understanding PlusLink**What you need to know about the PlusLink:**

- To be able to use the PL, you require a separate core per PL line in your installation.

Recommended cables for PL installation

	Maximum total cable sections in a PL line
NYM-J 3x1.5 mm ²	100 m
NYM-J 4x1.5 mm ²	80 m
NYM-J 5x1.5 mm ²	65 m

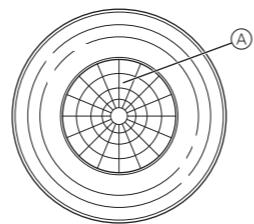
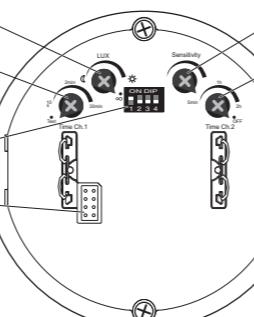
- All devices connected to one or more PL lines must be connected to the same phase.
- The PL carries mains voltage.
- The PL transfers the commands from the sending devices to the receiving devices. Individual addressing of the devices in the PL line is not possible. All devices are always activated at the same time.
- A maximum of 10 sending and 10 receiving devices can be connected to a PL line.
- The PL is not subject to prioritisation. Each new command overwrites the previous one.
- No separate software is required for using the PL.

Using the sensor module 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 is unsuitable.

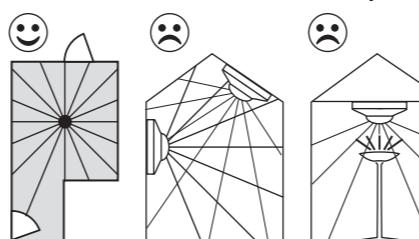
Movement/presence detectors switch on as soon as they detect a moving heat source. This can be a person, but also animals or differences in temperature through windows. In order to avoid false alarms, the chosen installation site should be such that undesired heat sources cannot be detected (see section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

Connections, displays and operating elements**Front:****A** red LED (in test mode)**Rear:**

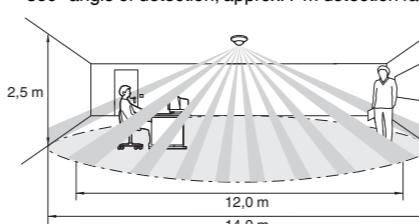
A Module interface
B DIP switch (no function)
C Test mode
D no function
E Potentiometer for sensitivity
F no function

Selecting the installation site

- Only mount the sensor module in positions that allow the desired area to be monitored effectively.



- Install the sensor module on the ceiling, if at all possible in the centre of the room.
- Do not install the sensor module on inclines or walls.
- Install the sensor module at least 0.5 m away from lights.
- The recommended mounting height is 2.50 m. Any mounting height which deviates from this will affect the area of detection.
- Maximum area of detection of the sensor module: 360° angle of detection, approx. 7 m detection radius.



- Inner/outer area of detection
 - inner area of detection (approx. 6 m radius): movement detection of a seated person due to less movement
 - outer area of detection (approx. 7 m radius): movement detection of a person walking due to increased movement

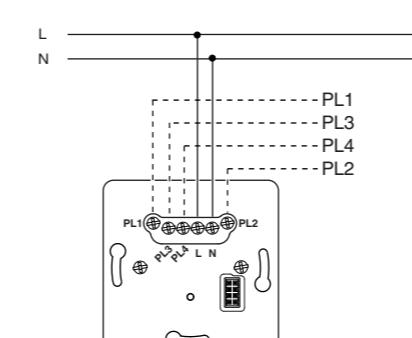
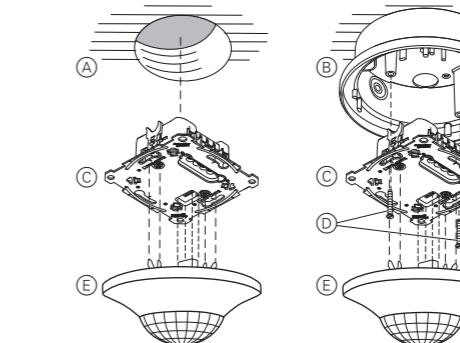
- In order to ensure continuous monitoring, e.g. of a long hall, the areas of detection of the individual sensor modules have to intersect.

- Movement/presence detectors detect objects that radiate heat. You should select an installation site that will not result in undesired heat sources being detected, such as:
 - switched-on lamps in the area of detection
 - open fires (such as in fireplaces)
 - moving curtains, etc., that cause a different temperature in their surrounding environment due to strong sunlight
 - 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.

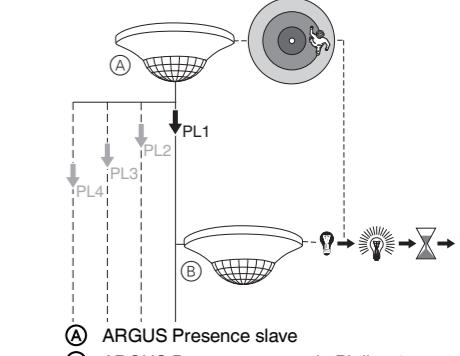
- To prevent faulty operation, the insert should be installed in a wind-resistant flush-mounted socket. With flush-mounted sockets and pipe cabling systems, a draught of air at the rear of the equipment can trigger the sensor module.
- Avoid direct sunlight. This can destroy the sensor in extreme cases.

Installation location for master/slave operation

- In order to ensure the room is as well-lit as possible, put the master in the darkest area of the area used. This means the lighting will still turn on when there is already sufficient ambient brightness in some areas.
- When operating with several master devices in one room (multi master), the individual lighting areas have common borders. This poses the risk that these affect each other (optical feedback). Try to avoid multi-master operation. If this is not possible, place the master in an area that is at the maximum possible distance from the bordering lighting areas.

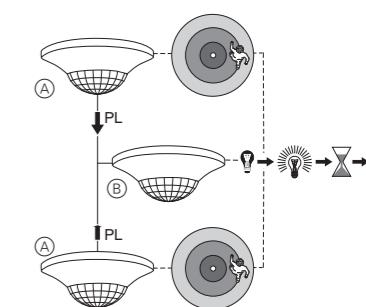
ARGUS installation**Wiring the insert for the application required****Installing ARGUS**

A Flush-mounted socket
B Surface-mounted housing for ARGUS Presence (accessory)
C Insert
D Screws (included with surface-mounted housing)
E Sensor module



i Notes:

- The ARGUS Presence slave always sends independently of brightness.
- The DIP switches of the ARGUS Presence slave have no function.

Example of two ARGUS Presence slaves in the PL line

A ARGUS Presence slave
B ARGUS Presence master in PL line

Technical data**Insert**

Nominal voltage: AC 220/230 V ~, 50/60 Hz
Neutral conductor: required
Output: 4 x PlusLink
Connecting terminals: Screw terminals for max. 2x 2.5 mm² or 2x 1.5 mm²
Protection: max. 16 A circuit breaker

Sensor module

Angle of detection: 360°
Number of levels: 6
Number of zones: 136
Number of movement sensors: 4
Recommended mounting height: 2.50 m

Range (can be adjusted under "Sensitivity"): max. approx. 7 m detection radius

Detection brightness: independent of brightness

Display elements: 1 red LED

DIP switch: no function

Connection: module interface with 8 contact pins

Dispose of the device separately from household waste at an official collection point. Professional recycling protects people and the environment against potential negative effects.

Merten GmbH

Fritz-Kotz-Str. 8
51674 Wiehl - Germany
se.com/contact

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