KNX ARGUS Presence with light control and IR receiver

Operating instructions

The functions of the IR receiver are specified by the application. The following functions can be carried out with a suitable IR remote control (e.g. Art. no. MTN570222).

- Change individual configurations of the ARGUS.
- Remote control of other KNX devices.

The IR receiver of the ARGUS can manage up to 50 channels. Suitable assignment is made in the ETS.

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

The device is designed for use in offices, schools, public buildings or at home, for example. It is intended for ceiling mounting in a No. 60 mounting box, and can also be mounted on the ceiling in the surface-mounted housing for ARGUS Presence. The ARGUS has an integrated bus coupler and its power is supplied via KNX.

Accessories

- Surface-mounted housing for ARGUS Presence (Art. no. MTN550619)

For your safety

DANGER
Risk of fatal injury from electrical current.
All work carried out on the unit may only be performed by skilled electricians. Observe the regulations valid in the country of use, as well as the valid KNX guidelines.

ARGUS introduction

The KNX ARGUS Presence with light control and IR receiver (called ARGUS in the following) is a KNX presence detector for interior ceiling mounting. It detects smaller movements within a circumference of 360° and a radius of 7 m (at a mounting height of 2.5 m).

Using ARGUS with alarm systems

Movement/presence detectors are not suitable for use as components of an alarm system.

Movement/presence detectors can trigger false alarms if the installation site has been chosen unfavourably.

Using ARGUS with alarm systems

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

Programming button
Programming LED
Bus connecting terminal

Alignment of the movement sensors (A, B, C, D)

- The position of the ARGUS in regard to the direction of movement also affects detection. If possible, install the movement detector sideways to the direction of movement.
- If you wish to attach several presence detectors, install them so that the detection areas of the individual devices intersect each other.
- The ARGUS is designed for permanent installation only. Mount the ARGUS on a fixed base only to avoid faulty operation caused by the movement of the detector.
- To prevent undesired load switching, do not mount the switched luminaire directly in the detection area of the ARGUS.
- Avoid mounting the device above a luminaire (e.g. standard lamp). The heat radiation of the luminaire can influence the function of the ARGUS. Brightness can no longer be measured when there is direct light incidence. If luminaires are mounted in the ARGUS detection area, a distance of at least 3 m must be complied with when the connection load is high.
**ARGUS installation**

The retaining ring and thus the movement sensors themselves can only be rotated in 90° increments. To optimally adjust the movement sensors to the movement in the space, you have to align the installation boxes or the surface-mounted housing appropriately when mounting.

1. The ARGUS is connected via a bus connecting terminal and snapped onto the retaining ring.

   ![Flush-mounted installation and Surface-mounted installation](image)

   - Flush-mounted installation
   - Surface-mounted installation

   For flush-mounted installation, the retaining ring included with supply is fixed with two screws to a size 60 installation box. For surface mounting, the retaining ring is mounted in the surface-mounted housing which is available as an accessory.

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**Putting ARGUS into operation**

1. Press the programming button. The programming LED lights up.
2. Load the physical address and application into the device from the ETS. The programming LED goes out. The application has been loaded successfully, the device is ready for operation.

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**Setting ARGUS**

**Setting the movement sensors**

The ARGUS has four movement sensors (A, B, C, D). You can set their sensitivity and range sector-specifically in the ETS.

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**Technical data**

- **Nominal voltage:** DC 24 V (+6 V / -4 V)
- **KNX connection:** Bus connecting terminal
- **Current consumption:** max. 8 mA
- **Angle of detection:** 360°
- **Number of levels:** 6
- **Number of zones:** 136 with 544 switching segments
- **Number of movement sensors:** 4, separately adjustable
- **Recommended mounting height:** 2 m - 5 m, optimum 2.50 m
- **Light sensor:** infinitely adjustable in ETS between approx. 10 and 2000 lux. In general, the values measured by the sensor deviate from the lighting conditions at the main place of usage (e.g. work surface). The extent of the deviation is dependent on the installation site of the sensor, the properties of the room (reflection of the luminaires, type of paint on the walls and the surfaces) and the luminaires used.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>Radius of approx. 7 m; can be set in ETS</td>
</tr>
<tr>
<td><strong>Overshoot time</strong></td>
<td>from 1 s to 255 hours; can be set in the ETS</td>
</tr>
<tr>
<td><strong>Display elements</strong></td>
<td>1 red programming LED</td>
</tr>
<tr>
<td><strong>Operating elements</strong></td>
<td>1 programming button</td>
</tr>
<tr>
<td><strong>Number of IR channels</strong></td>
<td>10 for controlling other KNX devices, 10 for configuration (channel numbers 1 - 50)</td>
</tr>
<tr>
<td><strong>IR operator panels</strong></td>
<td>e.g. IR remote control Art. no. MTN570222</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>-5 °C to +45 °C (at temperatures &gt; 30 °C, movement detection is limited)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>-25 °C to +45 °C</td>
</tr>
<tr>
<td><strong>Transport</strong></td>
<td>-25 °C to +70 °C</td>
</tr>
<tr>
<td><strong>EC guidelines</strong></td>
<td>EMC guideline 89/336/EEC</td>
</tr>
<tr>
<td><strong>Initialisation</strong></td>
<td>Due to the limitation of the telegram rate, a telegram cannot be generated until 20 seconds after initialisation at the earliest.</td>
</tr>
<tr>
<td><strong>Type of protection</strong></td>
<td>IP 20</td>
</tr>
</tbody>
</table>

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**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.