Building control systems

ARGUS presence detectors

Move towards energy efficiency
Energy consumption will dramatically increase within the next 20 years

Solutions based on energy-efficient products are requested more and more
How can you fulfil this need – simply, fast and competitively?

Continuously rising energy prices are the result of a changed global energy situation. Energy-efficient products are more important and more in demand than ever, because saving is the only way to conserve resources and reduce costs.

Convince your customers with energy efficiency

The effective way to energy efficiency
A modified energy awareness has manifested itself in the minds of your customers. The desire to have products that save energy in a simple and convenient manner is growing constantly. In addition, more and more standards and directives demand the use of energy-efficient solutions.

Presence detectors of Schneider Electric avoid unnecessary energy consumption and contribute significantly to cost savings – in offices, schools, hospitals and any kind of public buildings.

Energy efficiency classes according to the Energy Performance for Buildings Directive (ENPD)
With the installation of presence detectors, the energy efficiency class B of the ENPD will be reached. This class certifies high energy savings of buildings, from which inhabitants as well as operators or building owners benefit.

<table>
<thead>
<tr>
<th>A</th>
<th>High Performance</th>
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<tbody>
<tr>
<td>B</td>
<td>Advanced</td>
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<td>C</td>
<td>Standard</td>
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<td>D</td>
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Simply reach energy efficiency class B with presence detectors
Presence detectors for all areas of application

Presence detectors automatically switch the light on and off depending on brightness and movement. If required, other loads such as heating and ventilation can also be switched on and off. This is not only convenient but particularly energy efficient as well.

The presence detector detects movement and switches the light on depending on ambient brightness. Unlike a movement detector, it also switches the light back off when the area is bright enough. As a result, the presence detector is especially suitable for rooms that are used for longer periods and that receive a high proportion of daylight.

Presence detector system

The ARGUS presence detector range of Schneider Electric offers efficient stand-alone and system solutions for the different requirements of your customers: constant light control for consistent brightness by the use of 1-10 V and DALI as well as the control of heating or ventilation.

Networking presence detectors increases the detection areas, thus providing a close detection of larger rooms and areas as required. Cost-efficient presence detector systems can be achieved by combining one master with up to 10 slaves.
Functions

Whether in stairwells, meeting rooms or open-plan offices – presence detectors of Schneider Electric are suitable for many different applications. With practical functions, possible settings and large areas of detection, you offer your customers the right solution for energy efficiency and comfort.

**Master/Slave**
Up to 10 masters and 10 slaves can be interconnected via a single core 230V cable. This means long corridors and large stairwells are easy to monitor.

Control via push-button:
With the SideController, the light can be switched on or off for a period of 24 hours. The overshoot time that has been set can also be activated via the key on the right.

**Staircase timer**
Depending on requirements, the staircase timer can be infinitely adjusted between 10 seconds and 30 minutes. The switchable prewarning function shows the remaining overshoot time 30 seconds before.

**Constant light control (1-10 V and DALI)**
Light control ensures the desired brightness in a room to be achieved permanently. The brightness of the lighting is kept nearly constant depending on daylight by dimming the connected lighting group.

**Remote controllable**
The ceiling-mounted ARGUS presence detectors can be easily operated with the remote control: switching-maintained light on/off, switching to automatic mode as well as dimming up/down for 1-10 V and DALI.

**Two channels for integrating heating or ventilation**
The ARGUS Presence relay 2-gang presence detector has a brightness-dependent channel and a brightness-independent channel. The first channel automatically controls the lighting depending on brightness and presence. The second channel controls connected loads such as heating or ventilation depending on presence only.
The movement- and brightness-dependent control of lighting can be perfectly adapted to the users’ behaviour in offices and can be harmonised between their workplaces.

Overview of products and functions in the office

1. Single office and open plan office
   - Constant light control for perfect lighting

2. Archive/Restrooms
   - Optimised energy consumption in infrequently used rooms

3. Corridor
   - Master-Slave function for complete detection, even in long or L-shaped corridors

4. Conference room
   - Manual control of lighting if required

1-10 V and DALI

Lighting systems with 1-10 V and DALI

For analogue lighting systems with 1-10 V technology, the 1-10 V presence detector is used. Digital lighting systems with the DALI standard are controlled via the DALI presence detector.

1-10 V and Dali outputs provide constant light control in coherence with fluorescent tubes. Which provides the best comfort for office room users and permanent energy savings.
Office

Owing to the numerous different areas used, offices provide plenty of options to achieve high levels of energy-saving potential. The movement and brightness-dependent control of lighting can be perfectly adapted to the users’ behaviour at their workplaces.

Office room

Optimal conditions for high efficiency
Whether individual or open plan office, optimum lighting of the workplace increases comfort and efficiency. Light switches on depending on movement and brightness. Thanks to the constant light control function, lighting is dimmed to a defined light level. In case brightness is sufficient the ARGUS presence detector switches off the lights, even if people are present.

Archive/copy room

Plenty of room for energy saving
Copy rooms or archives are among the least-used office rooms. It is easy to forget to turn off the lights when leaving such rooms, making a presence detector a very efficient solution here. When entering the room, the presence detector conveniently switches on the light and then switches it off automatically when no movement is detected anymore.
Corridor

Security in frequently used walkways
Corridors are often long and insufficiently lit links between working areas. People moving around in these areas are often so busy that controlling the light is the furthest thing from their minds. If the presence detectors are installed one by one and connected, lighting for the entire corridor is secured, regardless from which side it is entered. As soon as the presence detector ceases to register any movement, the lights are switched off. This simple solution provides dual efficiency as it increases security whilst reducing electricity costs.

Conference room

Two channels for double efficiency
Be it for staff meetings or presentations, automatic control ensures that the lighting and temperature in conference rooms is right so the occupants can focus on the more important issues at hand. The ARGUS Presence ensures double efficiency. With its two channels, the lighting and temperature respectively ventilation can be set separately. This provides high levels of convenience with maximum energy efficiency.
Configuration

Presence detectors are equipped with a variety of settings. If all parameters are optimally adjusted to the individual application, maximum energy efficiency can be achieved.

**Overshoot time setting**
- Infinitely adjustable from 10 seconds to 30 minutes

**Overshoot time setting, channel 2**
- An additional potentiometer for infinite setting from 5 minutes to 2 hours

**Brightness threshold setting**
- Infinitely adjustable from 10 to 1000 lux

**Sensitivity setting**
- Infinitely adjustable

**Interface**

**DIP switches**
- DIP switch 1: Presence function
- DIP switch 2: 24-hour staircase lighting function
- DIP switch 3: Pre-warning function for staircase lighting
- DIP switch 4: Constant light control
## Product overview

<table>
<thead>
<tr>
<th>Presence detector, ceiling-mounted</th>
<th>ARGUS Presence detector, relay 1-gang</th>
<th>ARGUS Presence detector, relay 2-gang</th>
<th>ARGUS Presence detector 1-10 V</th>
<th>ARGUS Presence detector DALI *</th>
<th>ARGUS Presence Slave</th>
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- AC 230 V incandescent lamps
- AC 230 V halogen lamps
- LED lamps
- Electronic transformers
- Dimmable wound transformers
- DALI EBs
- Energy-saving lamps

* Each DALI presence detector can manage up to 15 DALI ballast
* Make the most of your energy