

Lighting control

Application: all commercial buildings

Use KNX presence and daylight detectors for precision lighting control

“ I want to cut energy use substantially in the main areas of my office building. I also want the flexibility to expand and reconfigure the system as needed, without having to rewire. ”

Use KNX open bus technology to link presence detectors to switching and dimming actuators for flexible, expandable automatic lighting control

The solution entails using presence detectors to activate artificial lighting if and when natural light is below a preset level. Lights are automatically switched off when areas are unoccupied or when there is sufficient natural light. Push-button or remote controls can be used to set brightness levels (100, 300, or 500 lux, or always off, for instance) and predefined scenarios.

Solution

Benefits

For the user

> **Use up to 35% less energy** by tailoring consumption to occupation patterns (based on reference buildings stated in DIN V18599 resp. EN 15232)



> **Reduce installation labour and costs** (compared to a traditional system with the same capabilities)

> **Flexible** local or centralized switching and on/off indicators



Project

> A Paris bank branch office (Caisse d'Epargne Réaumur) took advantage of a renovation to equip three 1,500 square meter floors with the system



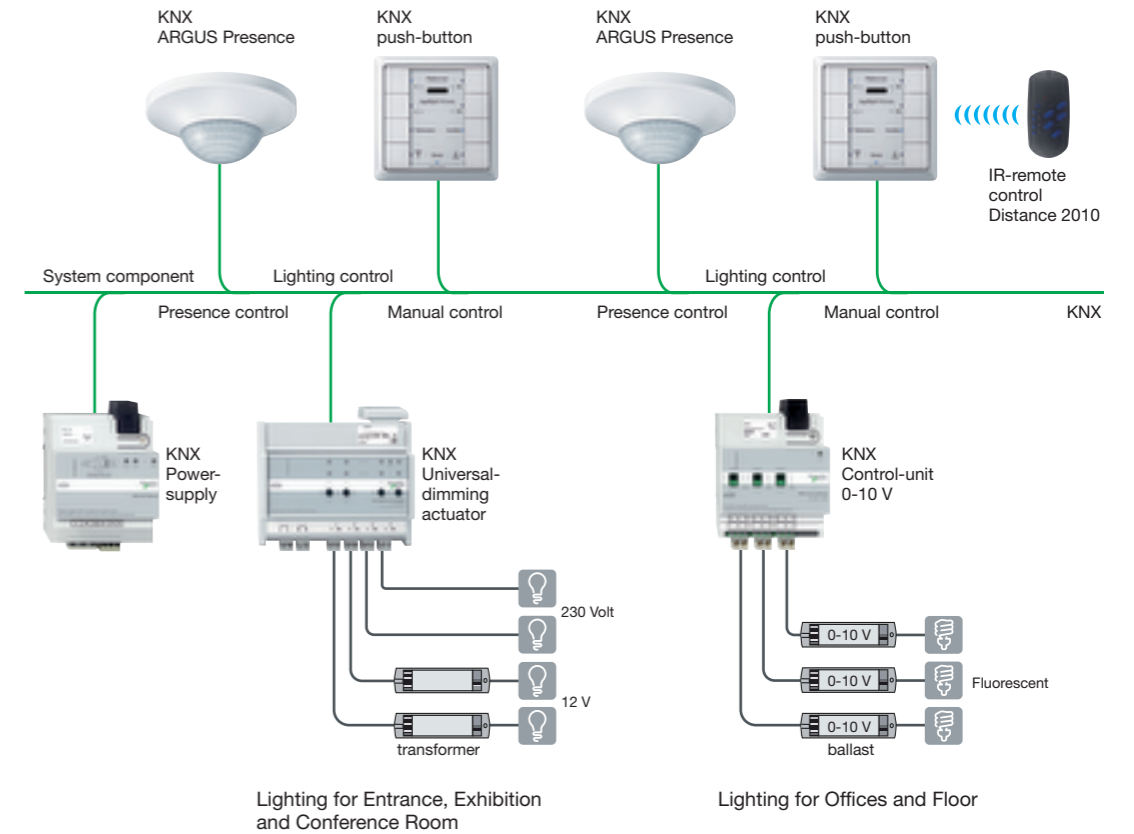
+ Increased flexibility

- Easy to reconfigure and expand
- Settings can be adjusted at any time and the system expanded without costly demolition or rewiring
- All devices are connected to a common bus line

+ New business opportunities

- KNX solutions are implemented by skilled electricians or integrators
- They offer a broad range of user-friendly and cost-effective functions

Measure Reduce energy consumption Reduce energy costs



Complies with standards

- KNX ISO IEC 14543
- EN50090 standard

System programmable via a simple PC using ETS software



KNX ARGUS

- > **Presence detector**
 - Angle of detection: 360°
 - Range: a radius of max. 7 m (at a mounting height of 2.50 m)
 - Number of levels: 6

- Number of zones: 136 with 544 switching segments
- Number of movement sensors: 4, separately adjustable

> Light sensor

- Internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS)
- External light sensor via KNX



KNX Universal dimming actuator

AC 230 V, 50-60 Hz: for switching and/or dimming incandescent lamps or LV halogen lamps using dimmable wound transformers or electronic transformers