

Building management

Application: all types of buildings

Control room lighting, temperature, and blinds automatically

“ I want to automatically manage my building’s lighting and air conditioning depending on occupation, orientation, and natural light. ”

Combine a variety of room-level controls for dramatic cost savings

The solution is built around KNX detectors and fan and blind actuators, which interact automatically, eliminating unpredictable—and costly—human activation and deactivation. By combining presence and brightness detectors with timers to control lighting, blinds, heating, and air conditioning, you can save dramatically on your energy bills while increasing occupant comfort and safety.

Lights are switched on only when areas are occupied and depending on natural light. Heating and air conditioning are automatically regulated to achieve the desired temperature, switching to standby mode in the event of prolonged absence or if a window is open. Blinds are activated according to room temperature.

Solution

Benefits

For the user

> Save up to 50%

- Combining room climate control, lighting, and blinds in a single flexible, automated system is the best way to align energy consumption with room use and occupant behavior while eliminating waste
- According to EU standard EN 15232, Class A office buildings must be equipped with room-level controls, which have the greatest impact on energy consumption
- All-in-one solution for optimized room control
- Reduces energy consumption
- Flexible, with centralized or local switching and indicators
- Increased safety with optional automated alarms and emergency calls
- Optional user-friendly remote monitoring and control
- Easy to upgrade or add on to the system

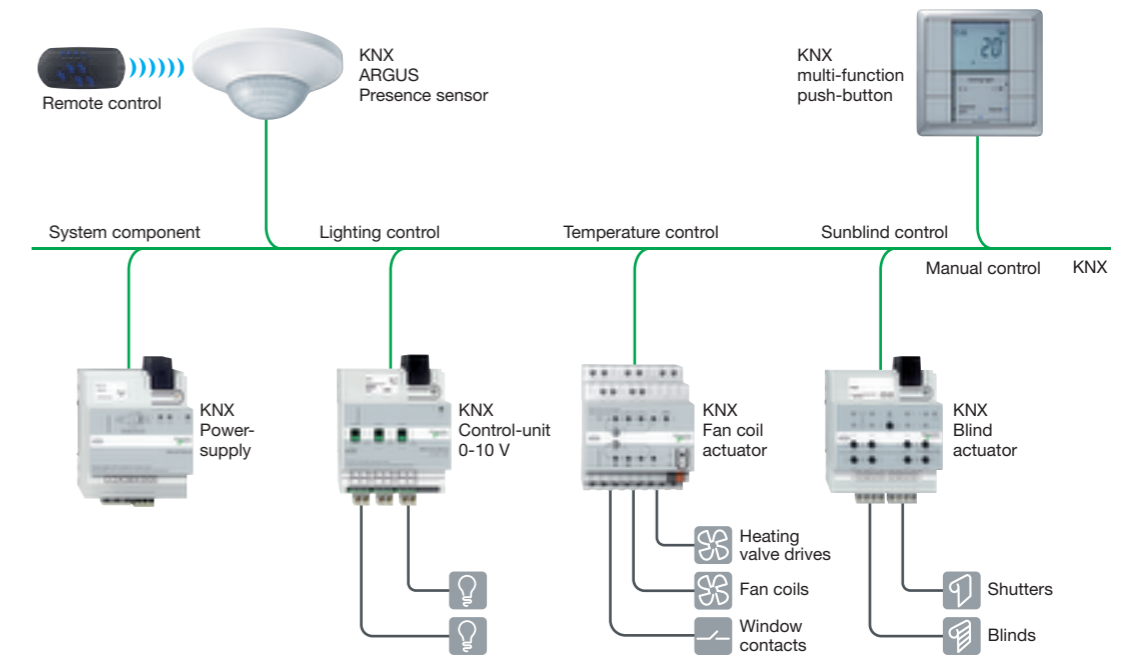
For professionals

+ Saves time on design (support available) and installation (easier to install than traditional systems with similar functions)

+ Facilitates maintenance

+ More flexible than traditional systems; can be changed easily if when tenants move out or when workspaces are reorganized

- Measure
- Reduce energy consumption
- Reduce energy costs



KNX Argus presence detector with lighting control and IR receiver



- 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 Lux to 2,000 Lux (ETS); external light sensor via KNX

REG-K/4x24/6 blind actuator with manual mode



- For independent control of 4 blinds or roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation.
- Integrated bus coupler
 - For installation onto DIN rails EN 50022

- For each blind output:
 - Nominal voltage: DC 24 V ±10 %
 - Nominal current: 6 A
 - Load types: 24 V direct current drives
 - Device width: 4 modules = approx. 72 mm
 - Contents: With bus connecting terminal and cable cover

KNX REG-K fan coil actuator

For heating, ventilation and air conditioning control. For controlling



- fan convectors with up to three speeds, or three-step motor drives.
 - Power supply: 230 V AC ±10 %, 50/60 Hz
 - Power consumption: max. 3 VA
 - Outputs: 3 floating contacts (fan coil), 2 semi-conductor switches (valve connections)
 - Switching capacity for valves: 0.5 A, 24V - 230 V AC
 - Additional relay switching capacity: 16 A
 - Fan relay switching capacity: 8 A
 - Inputs: 2, max. cable length 5 m