

Building management

Application: four- and five-star hotels

Reduce hotel electrical consumption and improve comfort with a full KNX system

“ Energy has become a major expense for my hotel. I would like to reduce costs, but not to the detriment of my guests’ comfort or my own peace of mind—my top priorities. ”

Install an intelligent guestroom management system to control lighting, HVAC, and blinds

This intelligent system controls lighting, HVAC, and blinds according to guest presence, ensuring maximum comfort via the following functions:

- Advanced control of all room equipment such as lighting, heating, air-conditioning, curtains, and blinds
- Management of hotel functions like do-not-disturb and make-up-the-room orders
- The capacity to communicate with other hotel systems

Energy use is managed automatically according to occupancy, resulting in reduced energy consumption. Of course, HVAC is a top consumer of energy, but so is lighting. Guests are usually only in their hotel rooms for around eight hours per day, therefore, the times when the room is unoccupied represent a major opportunity to save energy without affecting guest comfort.

The solution is based on a KNX/EIB bus system, which connects all the different sensors and actuators inside the room to form an intelligent system.

- Sensors: key card holder, presence detector, thermostat, open/close windows
- Actuators: lighting control, air conditioning control
- A single, easy-to-use interface, from simple push buttons to user-friendly touch screens
- Automated functions provide additional energy savings and smoother operation, without any inconvenience for the guests

Solution

Benefits

For the user

> **10% energy savings** off each guestroom’s electric bill

- By lowering room temperature by just one degree, you can shave 3% off of your HVAC system’s energy consumption
- Achieve additional savings through smart lighting and blind management

> **Ensure greater comfort** and an enhanced experience for your guests

- Install a convenient central point of control (bedside, for example)
- Provide one-touch access to selected lighting scenarios
- Eliminate the need to turn off each light when leaving the room or going to sleep

For professionals

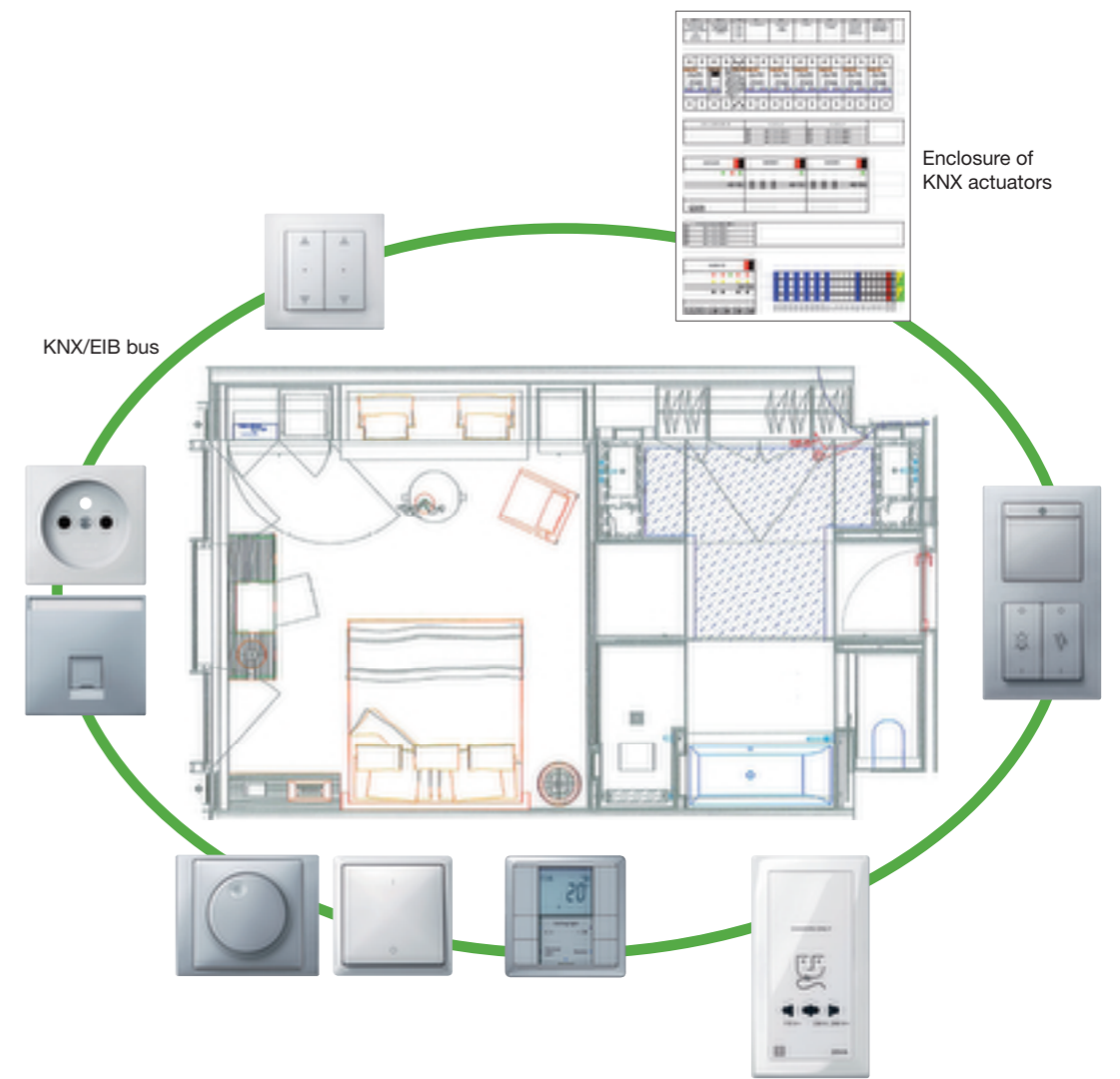
+ A differentiating design

A skilled electrician or systems integrator must be brought in to install the guestroom management system to ensure maximum user friendliness and cost effectiveness

+ Easy upgrades and add-ons

Thanks to the flexibility of the bus system, the system can be easily upgraded with new functions during future hotel renovations

Measure Reduce energy consumption Reduce energy costs



Schneider Electric provides a complete range of hotel guestroom products designed to work seamlessly together.

- Customer-facing products are designed with ease-of-use in mind
- Available in a broad array of stylish finishes to match the interior design of the guestroom
- Cover the full range of needs unique to hotel guestroom use

Guestroom thermostat



Card key holder

for installation in room entrance turns room systems on and off when guests enter and leave the room

