

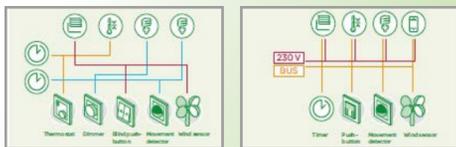
The intelligent bus principle

In conventional electrical installations, the control functions are mostly carried over the load cables. This means each function needs its own control cable. The intelligent solution is achieved by the installation bus which carries all the control signals in a building, thus making subsequent changes easy to implement.

One bus for maximum flexibility

As part of a conventional electrical installation, it is necessary to specify how and where household systems are to be controlled prior to the building work. A KNX installation is flexible, because all functions can be changed and expanded at any time.

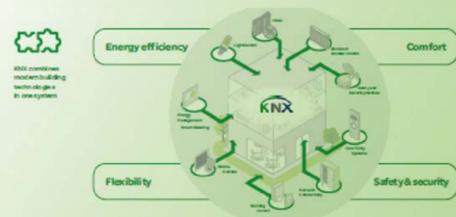
The two-wire installation bus routed in parallel to the 230V electrical power supply connects all devices and systems of the household technology together, and transmits all the control signals. This is based on fast transmission rates with the highest levels of immunity to interference.



The conventional solution: many separate lines, meaning less flexibility

The intelligent KNX solution: the bus carries out all control functions for maximum flexibility

Combining building control with the technologies of the future



Smart Home Automation

by
Schneider Electric



Technology



Control & Management System



System Integrator (SI):



System Engineering Ltd.
Always with our customer

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The advantages of modern building control with KNX

KNX offers convincing flexibility and cost efficiency. Whether in new buildings or for retrofitting, in private homes, offices, hotels or public buildings – KNX installations can easily be expanded and adapted again and again to new requirements.

Low operating costs

KNX enables the operating costs of a building to be reduced in the long term by only activating loads such as air conditioning, heating and lighting when they are actually needed. Control is effected automatically by means of time profiles as well as movement and presence detectors, thus leading to significant energy savings in offices and public buildings in particular.

Time savings

By networking all components via a single bus, it is possible to simplify the cable routing, reduce the complexity of the wiring and make the system both clearly comprehensible and easy to expand. The Engineering Tool Software (ETS) makes the planning, installation and configuration of KNX easy, quick and efficient.

Flexibility and expandability

Changes of use are also effortless with KNX. The installation can be adapted to modified requirements or future developments at any time. Additional components can be integrated into the existing bus system without requiring further installation work.

KNX – Technology with future

Systematic building control. As a global standard in building system technology, KNX offers unique advantages for all users. By intelligently linking together distributed system components via a bus system, it is possible to offer not only many more possibilities than in a conventional installation but also significant potential in the areas of energy efficiency, safety, security and comfort.

Future-proof industry standard

KNX is the world's open standard for house and building system technology. In Europe, KNX is established in the EN 50491 and CEN EN 13321-1 and 13321-2 standards, and internationally by the ISO/IEC 14543-3 standard. In China, it corresponds to the GB/Z 20965 standard, and in the USA to the ANSI/ASHRAE 135 standard. KNX is thus a globally valid as well as applied standard. All KNX products from all manufacturers are certified by the KNX association. This means all components are guaranteed to be compatible and future-proof, across all manufacturers. The Engineering Tool Software (ETS) simplifies the tasks of project planning and commissioning of all KNX-certified products.

Lighting Control

Lighting Automation system is an intelligent network based lighting control solution that incorporates communication between various system inputs and outputs related to lighting control with the use of one or more central computing devices, tab or smartphone.



Dimming

Scene-1

Scene-2



PIR Sensor

Daylight harvesting with sensor

Motorized Curtain/Blind Control

Motorized Curtain Control via Remote and Smart devices



Motorized Curtain

Motorized Blind

Smart Digital Door Lock

Digital Door lock control via Smart devices

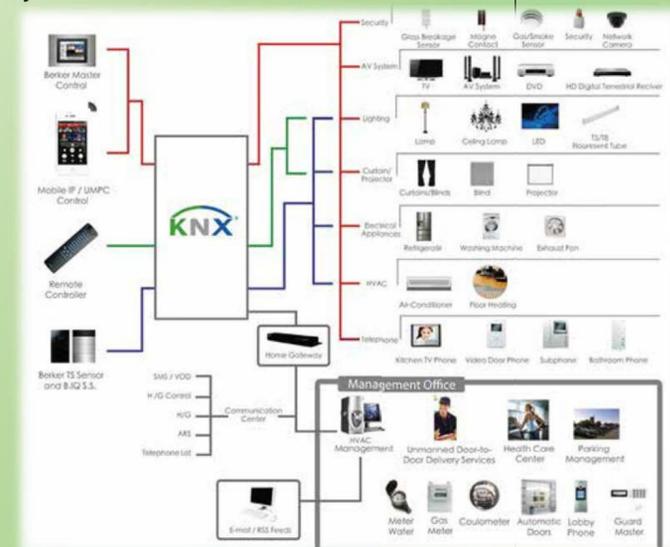


Air Conditioner Control

Air Conditioner (AC) Monitoring & Control from Remote & Smart Devices



System Architecture



Lighting Control & Automation Product



Touch Screen

Touch Switch

eDLT Switch



PIR Sensor

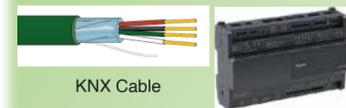
Actuator

Power Supply



Wiser for KNX

Automation DB Box



KNX Cable

Room Controller



Glass Touch Panel

Keycard Holder



Video Door Station



Alexa Echo show 10

Switch & Socket



Vivas Series

Zencelo Series

Neo Series



Avater Series

Ulti Glass Series

Fan Controller



Universal Socket

TV Socket

Internet Socket