

Specification Toolbox 2.0

Intelligent Building Solutions ABB i-bus® KNX in Hotels

Building Space® Hotels



ABB, one of the leading suppliers of automation and electrical solutions for residential and commercial buildings, has created the virtual hotel of the future – the Better Space Hotel.

Discover it on www.abb.com/betterspacehotel and experience ABB's Intelligent Building Solutions – based on ABB i-bus® KNX.



ABB i-bus® KNX The technology



- KNX is the first open standard for home & building control
- Fully compatible and interoperable
- Truly open bus technology
- 380 manufacturers worldwide
- Thousands of products
- Several applications



ABB i-bus® KNX The standards



CENELEC

EN 50090 – the only European Standard for Home and Building Electronic Systems (HBES) based on KNX.



CEN

EN 13321-1 – the European Standard for Building Automation based on KNX.



ISO / IEC

ISO/IEC 14543-3 – the World's only Standard for Home Electronic Systems (HES) based on KNX.



GB/Z

GB/Z 20965 - Chinese Standard for Home and Building Control based on KNX



US Standard





KNX: The worldwide standard for home & building control



ABB i-bus® KNX The functions



A broad product range for automation and control functions in today's modern buildings:

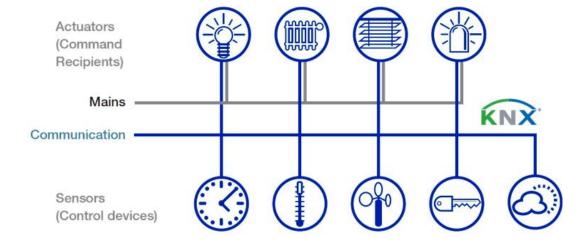
- Lighting control and regulation
- Heating, ventilation, cooling
- Blinds and shutter control
- Security and monitoring
- Energy and load management

- Visualization and operation
- Central automation
- Remote control / maintenance
- Interfacing to other control systems



ABB i-bus® KNX The system

Graphic: KNX – one system, one standard, many interconnected functions for maximum flexibility



- A single system instead of separate control solutions; more comfort, more economy, more safety
- Enables the realization of a complete solution according to the wishes the project partners and customers, whether they are buyers, tenants or operators
- Cost advantages throughout the entire lifetime of the building: from planning and implementation, through the building phase, sale or rental, right up to operation and administration



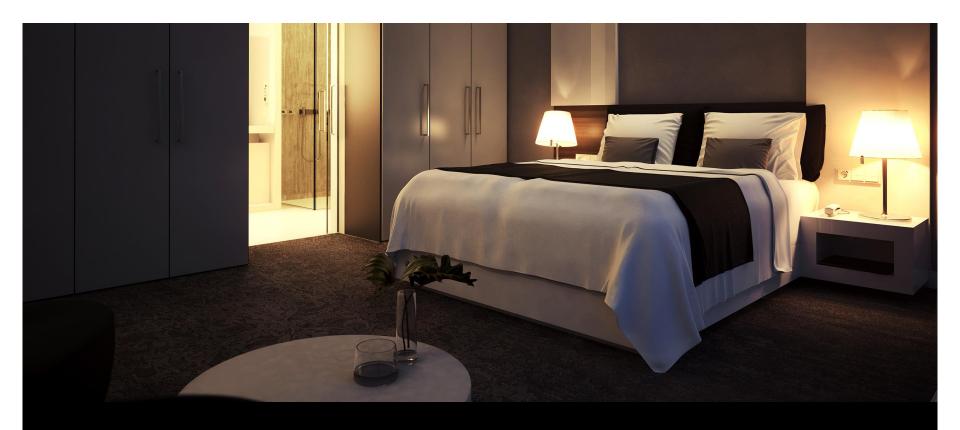


ABB i-bus® KNX in Hotels Applications and benefits



ABB i-bus® KNX in Hotels More than a technology

A hotel is made up of much more than just hotel rooms, it is a building teeming with life and emotions.

A hotel possesses many different spaces with diverse usage.





ABB i-bus® KNX in Hotels The right decision for you and your guests in all areas

ABB Intelligent Building Solutions offer outstanding options for assuring comfort, safety and efficiency in all spaces:

- Public areas: Reception, Lobby, Conference Centres, Restaurants, Wellness and many more
- Guest rooms: From standard guest room to high end suite

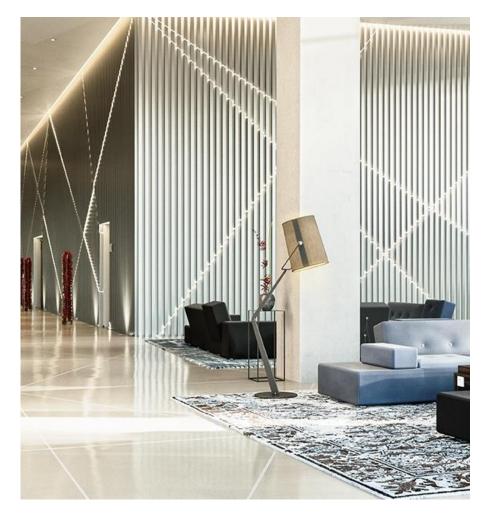
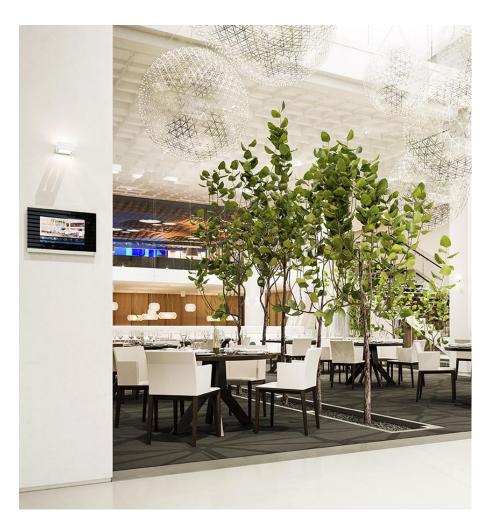




ABB i-bus® KNX in Hotels Creating moods at a touch

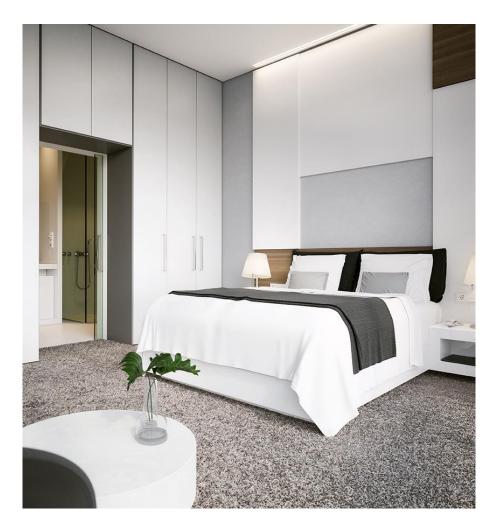


Lighting sets the scene and communicates emotions. Expressive compositions of several light sources will fascinate and inspire hotel guests. Modern building control allows you to put your establishment in the right light – intuitively and with effect!

- Switching, dimming, automatic lighting
- Constant lighting control
- Atmospheric lighting scenes
- Direct dimming, DALI and 1-10V control



ABB i-bus® KNX in Hotels The perfect room atmosphere

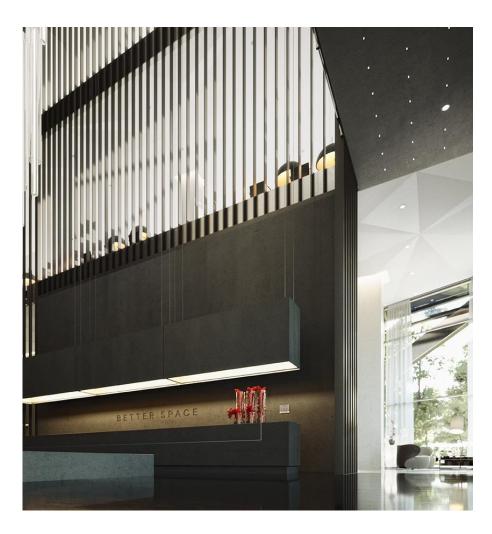


Whether cosy and warm or fresh and cool, the right room environment is a key factor in making sure the guests feel at home – all year round. Intelligent building control systems understand the challenges of this task and control heating, ventilation and air conditioning, individually, conveniently and energy efficiently providing holistic scene integration.

- Atmospheric scenes including HVAC and lighting
- Individual room temperature control
- Climate control including window monitoring
- Ventilation
- Fan-coil control



ABB i-bus® KNX in Hotels Increased convenience through optimal shading

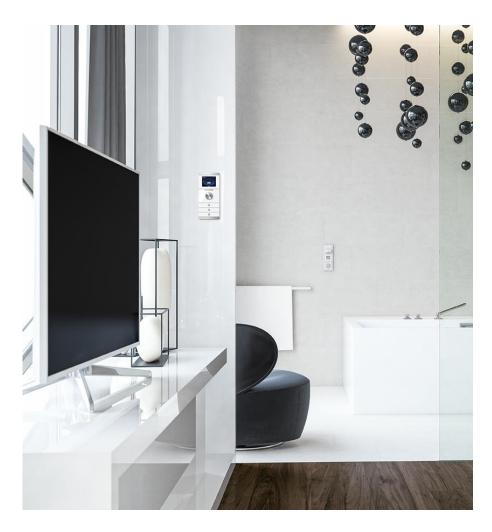


Whether winter or summer, shutters, blinds and curtains protect hotel guests from outside influences, protect their privacy and support the energy efficient operation of the lighting and HVAC system. Modern building control "works with you" and helps you automate daily routines, offering increased convenience for guests and reduced running costs for you.

- Roller shutter and window control
- Blind control with louver adjustment
- Automatic sun shading control
- Curtain and roller blind control
- SMI interfaces (Standard Motor Interface)



ABB i-bus® KNX in Hotels Impressive functions controlled intuitively



Comfortable use of exclusive equipment – at a glance, with minimum touches. For the enjoyment of all networked functions in hotel rooms or public areas – from dimming the lights, regulate the room temperature and shading up to video, sound system or the Internet.

- Display and visualization
- Operation
- Signalling
- Reporting
- Entertainment



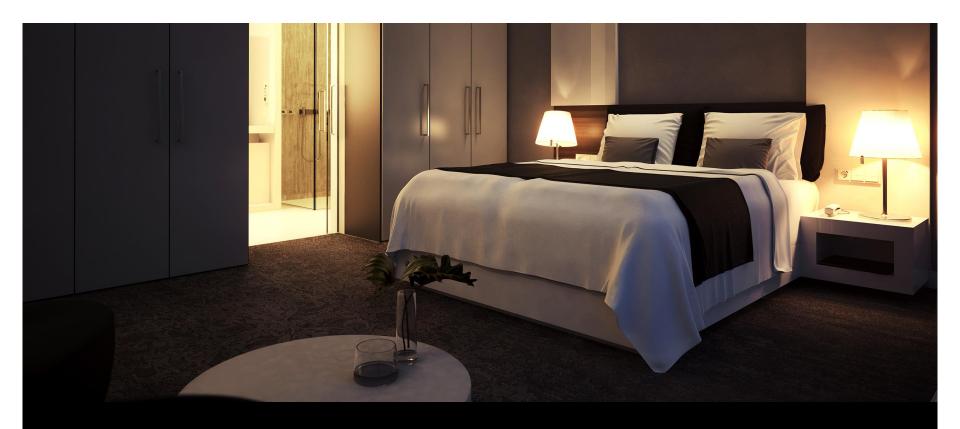
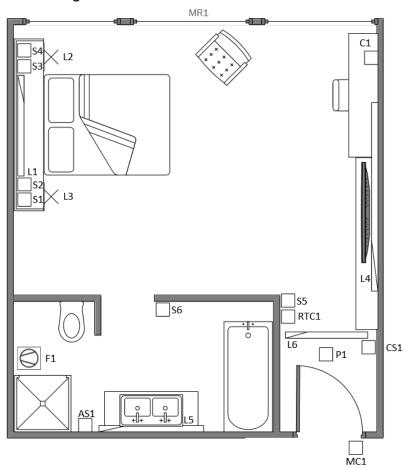


ABB i-bus® KNX in Hotels Guest room control in detail



ABB i-bus® KNX in Hotels Guest room control - Basic

Standard guest room



Room Master Basic

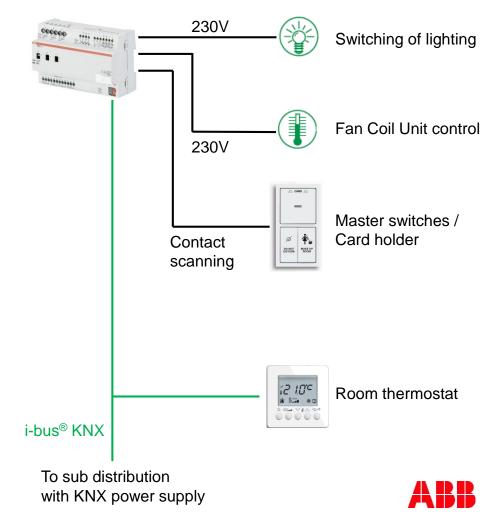
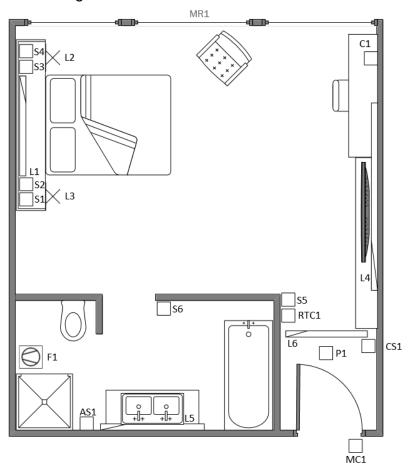


ABB i-bus® KNX in Hotels Guest room control - Advanced

Standard guest room



Room Master Premium

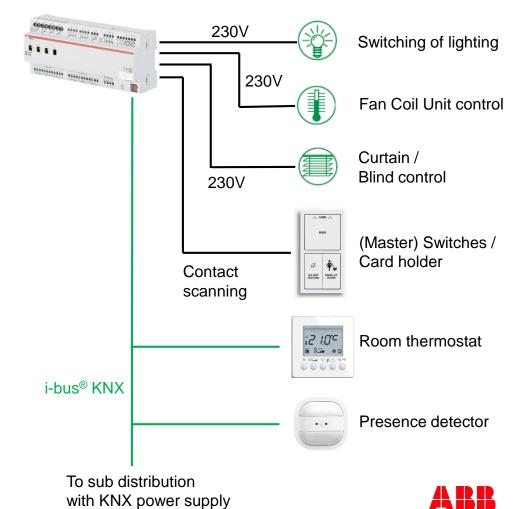


ABB i-bus® KNX in Hotels Guest room control - Premium

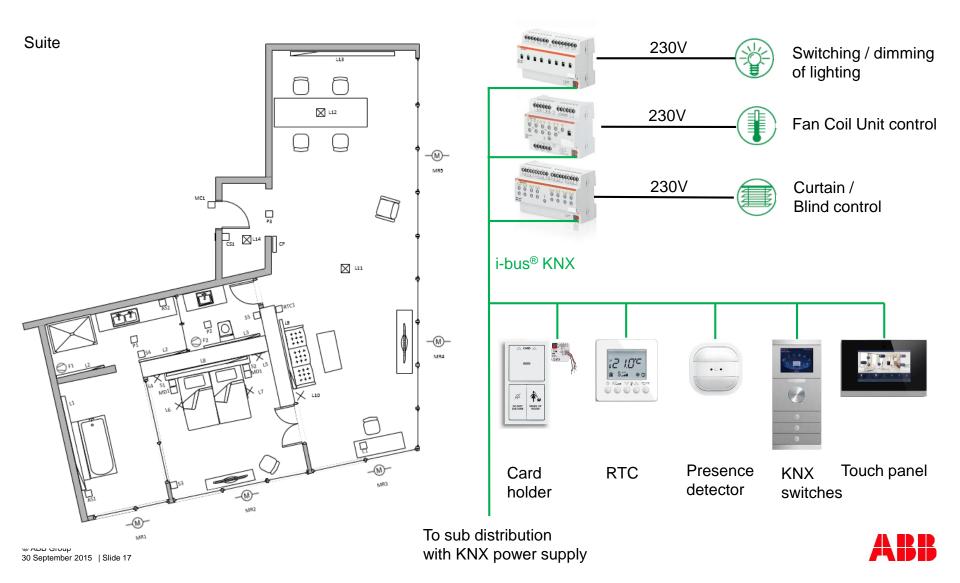
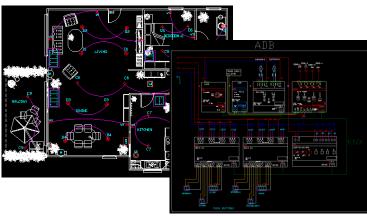


ABB i-bus® KNX in Hotels Specification Toolbox





- The ABB i-bus KNX Specification Toolbox comes with a variety of documents for your support:
 - Functional specification texts available in three different configuration levels: Basic, Advanced and Premium
 - Device lists including KNX devices to fulfil requirements of basic functional specification in three different configurations as example
 - CAD drawings containing floor plan and wiring of appropriate KNX devices for basic automation level as example



Disclaimer

Note:

The information in this Document contains general information about the applications and technology of KNX and furthermore show example solutions for a specific building segment.

We reserve the right to make technical changes or modify the contents of the Document without prior notice. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in the Document.

We reserve all rights in the Document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

©Copyright 2015 ABB. All rights reserved.

Warranty, Liability:

The user shall be solely responsible for the use of the content of this Document.

ABB shall be under no warranty whatsoever. ABB's liability in connection with the Document, irrespective of the legal ground, shall be excluded. The exclusion of liability shall not apply in the case of intention or gross negligence. The present declaration shall be governed by and construed in accordance with the laws of Switzerland under exclusion of its conflict of laws rules and of the Vienna Convention on the International Sale of Goods (CISG).



Power and productivity for a better world™

