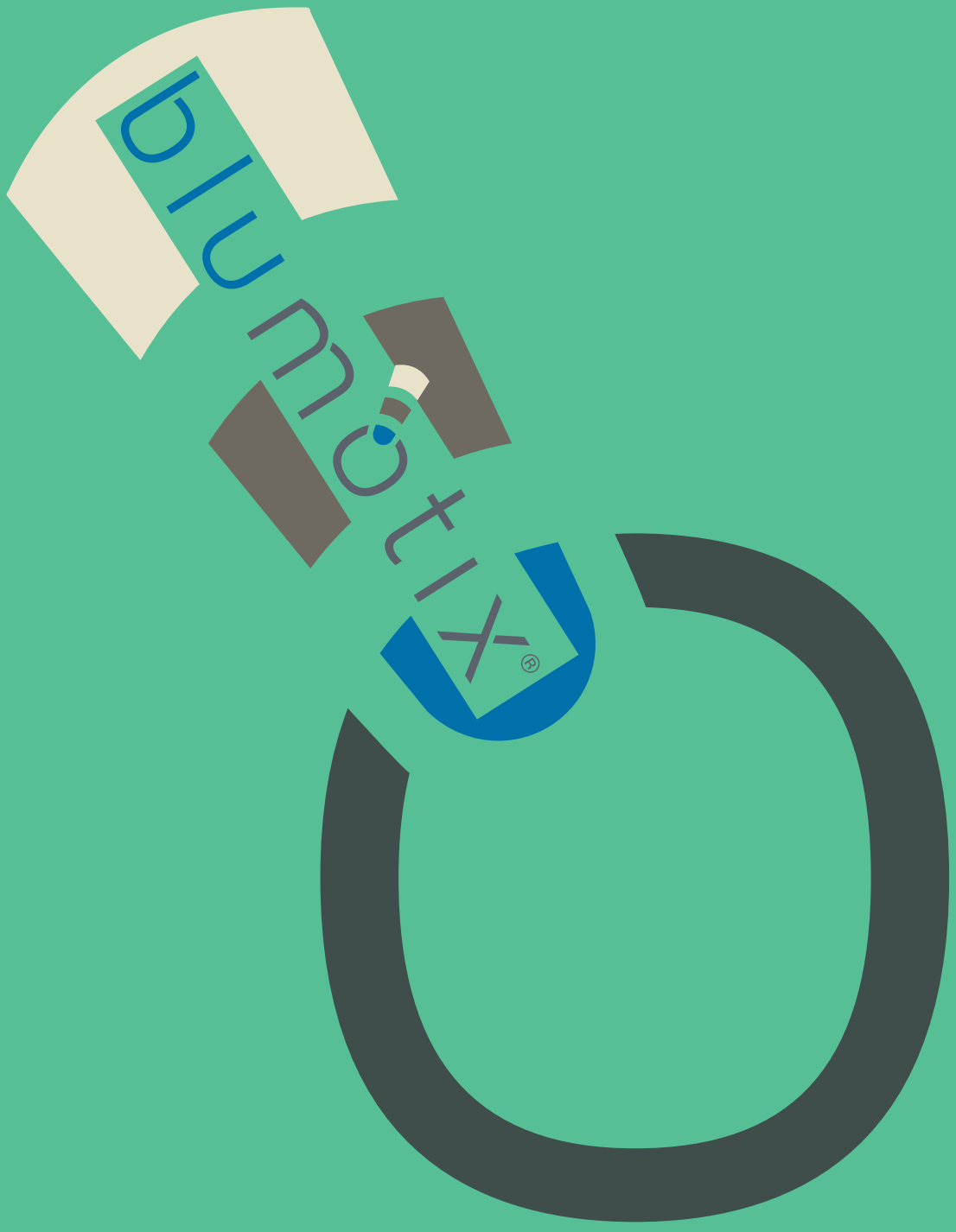
KNX

Home & Building
Automation



CATALOGUE 2025

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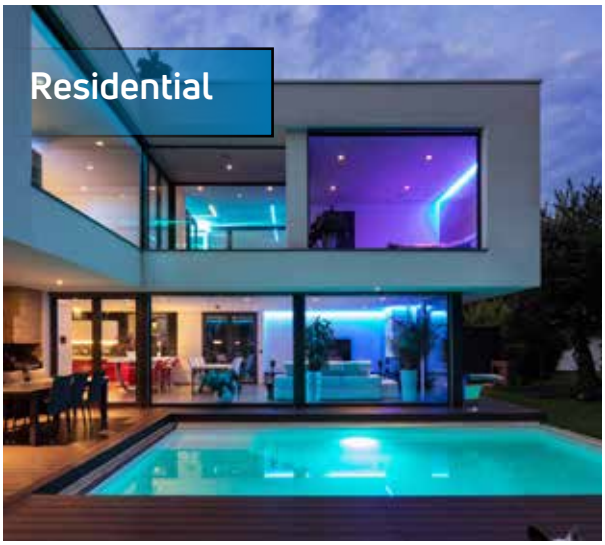
The Company

Blumotix is an Italian company that designs and manufactures devices with KNX technology for smart building management.
In 2010, Blumotix began specializing in the design of devices with KNX protocol. The company is a member of the Konnex Association since 2009 as a device manufacturer (License 160 -A0) and in 2010 obtained ISO 9001:2015 - Quality certification.
From 2014 to 2020, the company focused on developing a complete catalogue of finished products for KNX home automation before veering off into sectorial production lines (home, hotel, retail/service businesses, industrial and civil systems).
This came following a 2019 review conducted on the internal organisation after the appointment of a new General Manager, currently CEO, with the task to turn the company from being "research-oriented" to being "market-oriented" for production also in OEMs.
Blumotix designs and manufactures from its headquarters in Italy, Lugo (Ravenna), where the management, Research and Development laboratories and production/assembly areas are located.
A marked propensity for innovation and personalisation of the devices, accompanied by Italian style and design, characterise Blumotix products, setting them apart from all other products on the building automation KNX market.

“Our spaces are experiences”

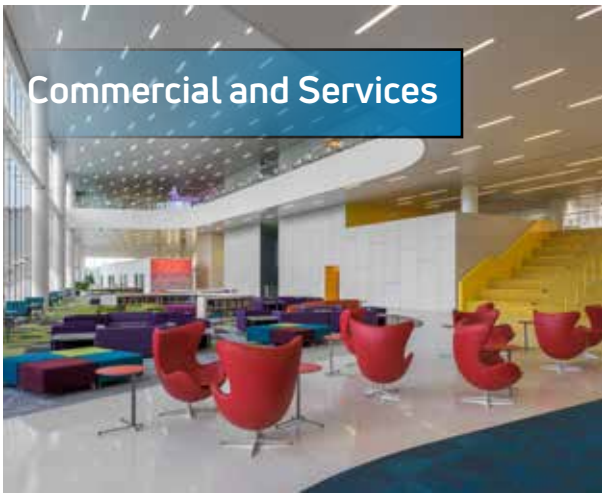


Smart and intelligent solutions that transform living spaces according to the different needs.

Redesign yourself by creating a space that suits your style. Stay safe, connected and in control of your home. A home that fills your life with love and emotion and where you can live peacefully with your loved ones.

The best comforts and the maximum efficiency of accommodation facilities.

Improve customer comfort and facilitate the management of hotel operators with our guest room systems. Our guest room management technology offers an integrated approach that connects the room with a centralized system. Integration of the NEMO BMS with all hotel management softwares.



Designing the work environment of the future to improve productivity.

We offer advanced building automation technologies of buildings to realize the vision of a “smart building for much better living”. Our building automation systems are based on the Internet of Things (IoT) and designed following the fundamental concepts of people-orientation, optimization and security.

Why choose Blumotix?

Blumotix designs, develops and produces KNX devices for the automation of buildings, with all devices being made and assembled in Italy, availing of innovation and technology in combination with the elegance of Italian Design.

Personalization

The development of every Blumotix device includes firmware (FW), software (SW) and hardware (HW). Each component is conceived, designed and produced by in-house technicians who operate in compliance with the specifications and standards in force at a national and international level.
The high degree of competence achieved in capacitive technology has allowed us to create a collection of keypads for glass control panels and thermostats, which can also be customised to the specific requests of architects and end customers. The result is an elegant device that is unique in terms of aesthetics, capable of characterising and adapting completely to the environment.

Guaranteed traceability

All Blumotix products are tested one-by-one and identified individually, guaranteeing a complete traceability in Italy and around the world.

Certifications

Blumotix operates with a Quality Management System in respect of UNI EN ISO 9001 standards.
Blumotix devices are designed and manufactured in compliance with the European standards in force (EN669-1, EN669-2-1;LVD2014/35/EU (EN IEC63044-3, ENIEC62368-1), EMC2014/30/EU (EN IEC63044-5-1, ENIEC63044-5-2, ENIEC63044-5-3, IEC61000-6-1, 2, 3, 4, IEC61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11), RAEE,RoHS2011/65/EU (IEC63000:2018), REACH/EN,EN50090-2-2), concerning fundamental aspects such as waste management, the substances used, electromagnetic compatibility, electrical safety and the environmental conditions for use. The devices comply with all specifications required by the KNX association.

Technical assistance and training

Blumotix is structured with a technical assistance service in Italy and abroad. Through the new Blumotix Academy, periodic training courses on the KNX protocol, devices in the Blumotix catalogue and their installation are offered to all customers.

Remote control of systems via PC, Smartphone and Tablet

All Blumotix Touch Panels can be remotely controlled via PC, Smartphone and iOS or Android tablets, simply by downloading the KRIM application dedicated to the supervision of the systems.

The human capital

Human Resources is at the heart of Blumotix's management, considering people as the indispensable factor for entrepreneurial success and business development, also in terms of social responsibility towards the environment and the community in which the company is located.

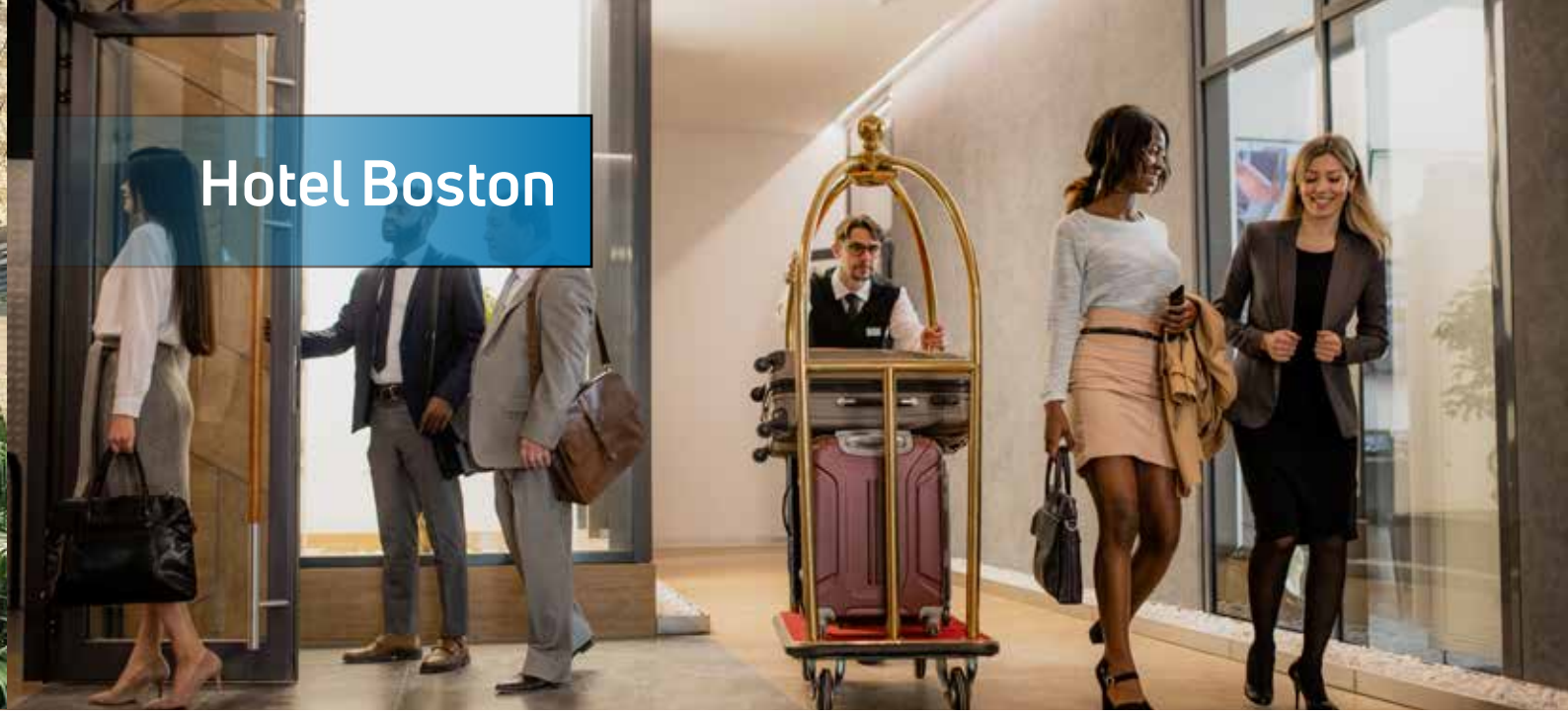
> *"Technology is nothing. What's important is that you have faith in people, that they're basically good and smart — and if you give them tools, they'll do wonderful things with them".*
>
> (cit. Steve Jobs)

500 + members
8.000 products
500 training centers
120.000 partners
190 countries in the world

ITCC, Riyad

Villa Clarke, Andalusia

Oakley Motorhome, Londra


Hotel Boston


Galleria Vik Hotel, Milano


La Pera, Marbella

The KNX standard

A communication protocol that renders buildings intelligent and interoperable

Thanks to KNX technology, Building Automation solutions are becoming increasingly indispensable components, able to integrate all functions pertaining to energy and comfort within buildings.
The decentralised management of each individual component, hailing from the distributed intelligence, guarantees the safety of the system in terms of service and helps reduce the Operating Expense (OpEx) for management.

A single Standard recognised worldwide

KNX is a unique standard for intelligent building management that has received worldwide recognition from over 400 producers.

A certified system

Regardless of the manufacturer, all KNX products are certified by the Association, guaranteeing their compatibility and interoperability.
KNX is the first globally-standardised system for automation control and management in residential and commercial buildings, in conformity with EN50090 and ISO/IEC 14543.

The scalable system ensures rapid implementation

The KNX system renders it possible to adapt the building to the changing needs of users. No masonry work or invasive operations are needed – in a few steps, it is possible to change the intended use or simply increase internal performance.

An advantageous choice

The economic parameters that characterise the management of a building are generally connected to the Capital Expense (CapEx) and Operating Expense (OpEx). The latter are substantially those that most affect the average life of a building, calculated over a period of 25 years. The choice of adopting a KNX-standard Building Automation solution means significant savings compared to a traditional system together with greater possibilities for growth in terms of integration.

On average, operating costs during the life-cycle of the building account for more than 70%. Often even simple functions – such as scenarios or commands that change position within the areas – are extremely advantageous if made with intelligent KNX solutions.

With a traditional installation, it proves complicated and burdensome to follow the various evolutions of a building. Yet with KNX solutions, adapting to organisational changes is simple and economical.
From lighting control to temperature regulation, controlling curtains and blinds through to the management of alarms and automatisms, everything is aimed at achieving an optimal running of energy efficiency.

The three phases that define a KNX solution

Almost all Building Automation systems work well in the laboratory but it is only on real units that these systems demonstrate their validity and effectiveness. In fact, many factors can compromise the final result, from installation and sizing to the choice of the most suitable device, not to mention the actual commissioning and proper configuration.
To ensure that everything works according to expectations, it is important to define the three main phases: design, configuration and commissioning.

1. Choice and Design

The right choice of what to install is the basic aspect behind any design. Interoperability is assured with the KNX protocol, allowing the most suitable device to be chosen from the thousands of certified products.
On the basis of the functional specifications, it is then possible to identify the list of necessary components, in developing a suitable type of system. The correct flow of data is guaranteed via a suitable architecture behind the lines and areas that comprise the system. A protocol based on the transmission to an event prevents the proliferation of data and the saturation of the bus.

2. Configuration

The individual products are configured through the ETS software, which is certified and distributed by the international KNX association.
Each device is distinguished by a physical address (comparable to the name) and by a group address (attributable to the function). Through ETS, it is possible to parameterise each individual component by choosing from amongst dozens of features made available for each product. When done well, programming guarantees the operation and efficiency of the system. It is throughout this phase that the scenarios and automatisms that characterise each system are also created.

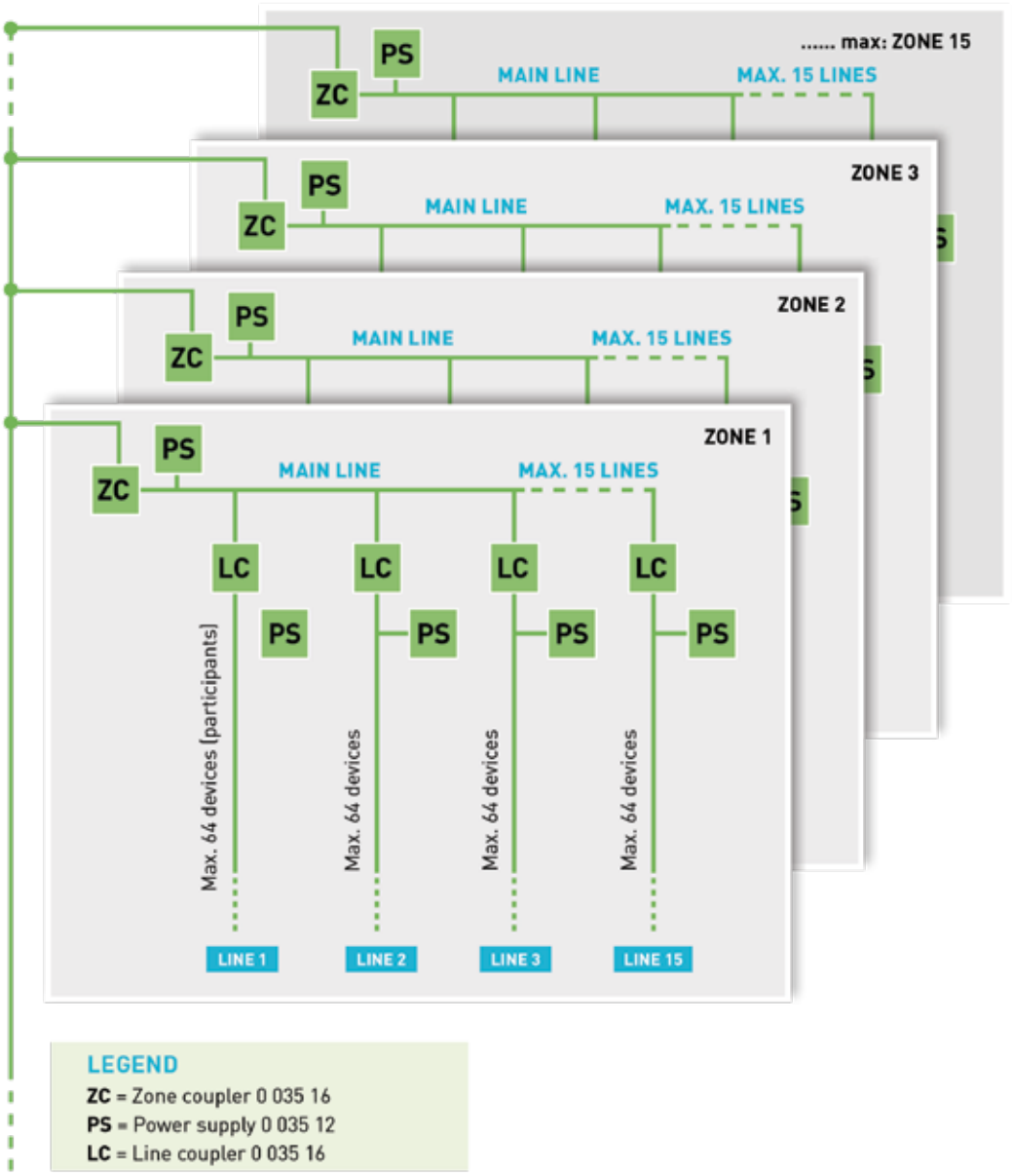
3. Commissioning

Commissioning follows the configuration phase. At this point, together with the end customer, the aspects related to performance and personalisation are undertaken. During commissioning, each individual object is fully tested both electrically and functionally.

The KNX standard

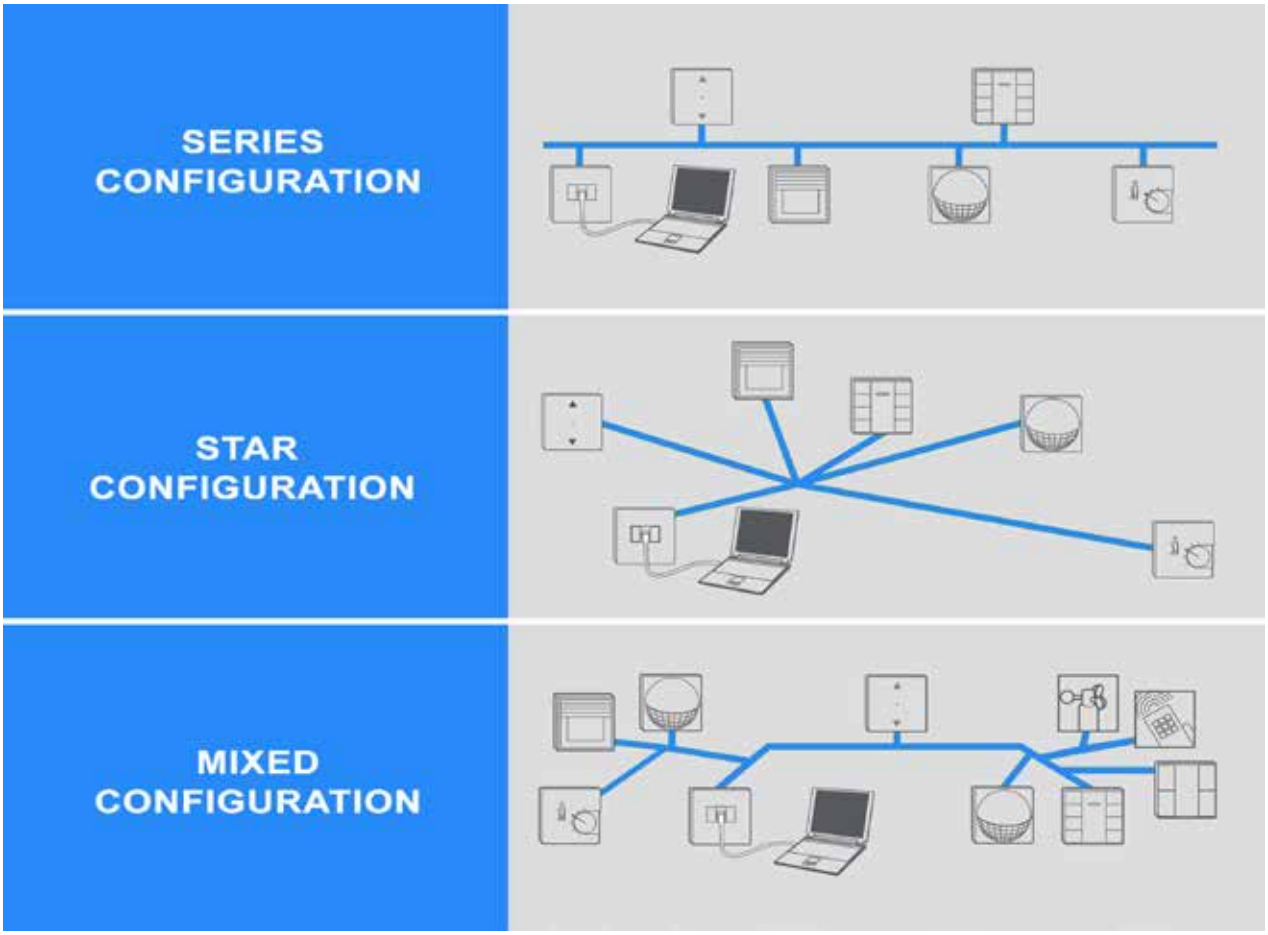
System architecture

The basic component of each KNX system is the line.
Each line requires at least one power supply, sized according to the number of connected devices.
Up to 64 devices can be connected to each line. Indeed, it is possible – through the use of special Line Couplers (LCs) to connect up to a maximum of 15 lines (AREA).
A system can consist in up to a maximum of 15 Areas linked together by area or field couplers (AAs).
The power supply necessary for operating the devices and data signal (telegrams) is conveyed by the same bus cable, also certified (twisted pair).
All devices are characterised by specific addresses on the bus.
To avoid collisions between the telegrams and any loss of data, the CSMA/CA (Carrier Sense Multiple Access/ Collision Avoidance) protocol is utilised.



Installation standards

The characteristics of the KNX communication protocol offer the utmost freedom of connection between the devices connected to the line.
Indeed, there is no limit or topological constraint. What's more, it is possible to connect the components in series, in a star, tree or in mixed configuration.
There are also few installation rules which, if respected, ensure the utmost reliability of the system in any application.



Within the bus line, the following precautions must be observed:

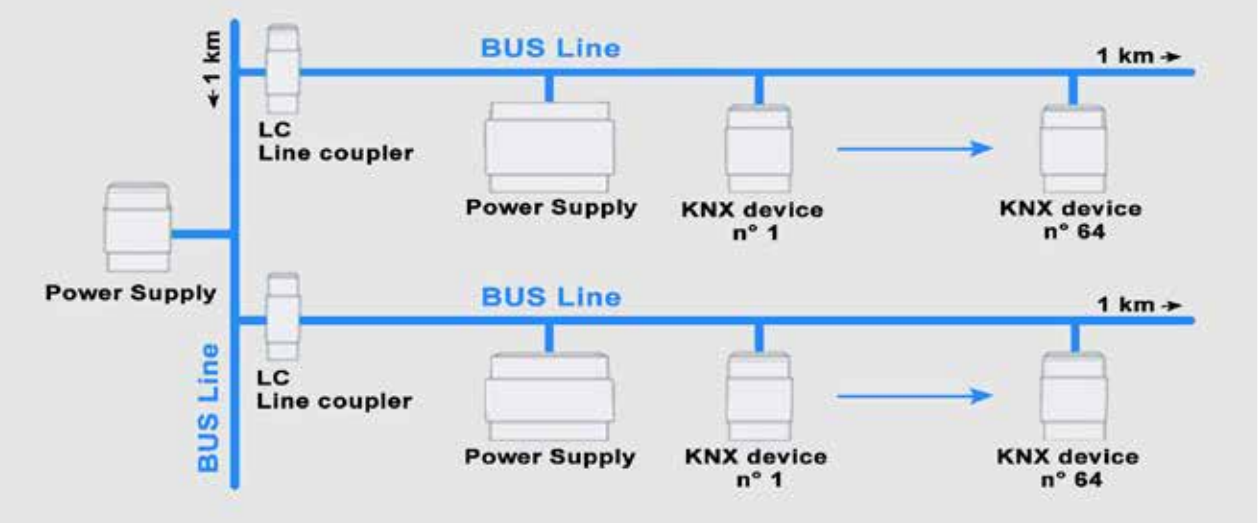
- Maximum cable length between the power supply and the bus device: 350 m.
- Maximum line length between two bus devices: 700 m.
- Total length of all cables within a line: 1,000 m.
- Maximum number of power supplies on the same line: 2 (at least 200 m apart)

The sizing of the power supply to be utilised on each line is also simple. It is possible to associate a maximum consumption of 10mA for each KNX bus device, an assumption which renders the choice of power supply type swift and intuitive, being now available in three different sizes:

- 160mA for up to 16 devices
- 320mA for up to 32 devices
- 640mA for up to 64 devices

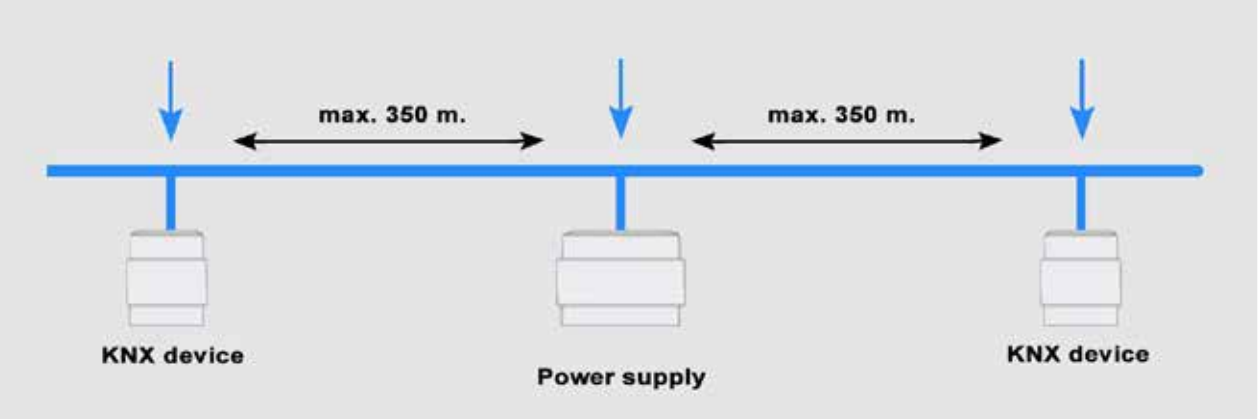
The KNX standard

If more than one line is present, the sizing must take into account an additional power supply capable of powering the backbone and the same number of line couplers as there are lines present.



Principle of operation

The principle of operation is simple: every device is assigned a physical address that is unique and even traceable within the architecture to the single component.



Via the bus, each component communicates with one or more devices by means of a data telegram.
Within the telegram there is generally a range of useful information for operation, in addition to the address of the sender and the recipient.
To allow communication between the devices, the group address is utilised. This can have either a 2-level (main group/sub-group) or 3-level (main group/intermediate group/sub-group) structure.
Each device also has its own intelligence, which makes it completely independent from the other devices. This characteristic of distributed intelligence ensures the general continuity of service to the system and allows to immediately recognise any system failure.
The physical address identifies the name of the device and its location within the system, being generally defined in the configuration phase by pressing a button.
The group address, rather, defines the logical connection and determines the mutual assignment of the devices connected to the bus.

Different solutions for different areas of application

The office is where the main automation of the building must converge. An intelligent environment will react and adapt to the various conditions of the day, ensuring everyday comfort only when it serves to benefit greater energy efficiency.
The constant luminosity varies and adjusts according to sunlight, with fan coils that are activated only in case of presence detection, air quality is constantly monitored, along with the activation of preferential sockets whilst security is guaranteed by elegant numeric code keypads.

Meeting rooms

Thanks to Blumotix's KNX systems, it becomes easy to setup a room for a presentation or meeting. The room thus adapts to the needs at hand, hence it proves no longer necessary to make adjustments to suit the various nature of each event.
In a "smart" meeting room, there is no need to turn the lights on or off individually – simply press a single button or – even more simply – control the desired scenario from a smartphone to simultaneously activate a series of functions: the presentation screen automatically lowers, the blinds come down, the projector and microphone switch on and the lighting dims.

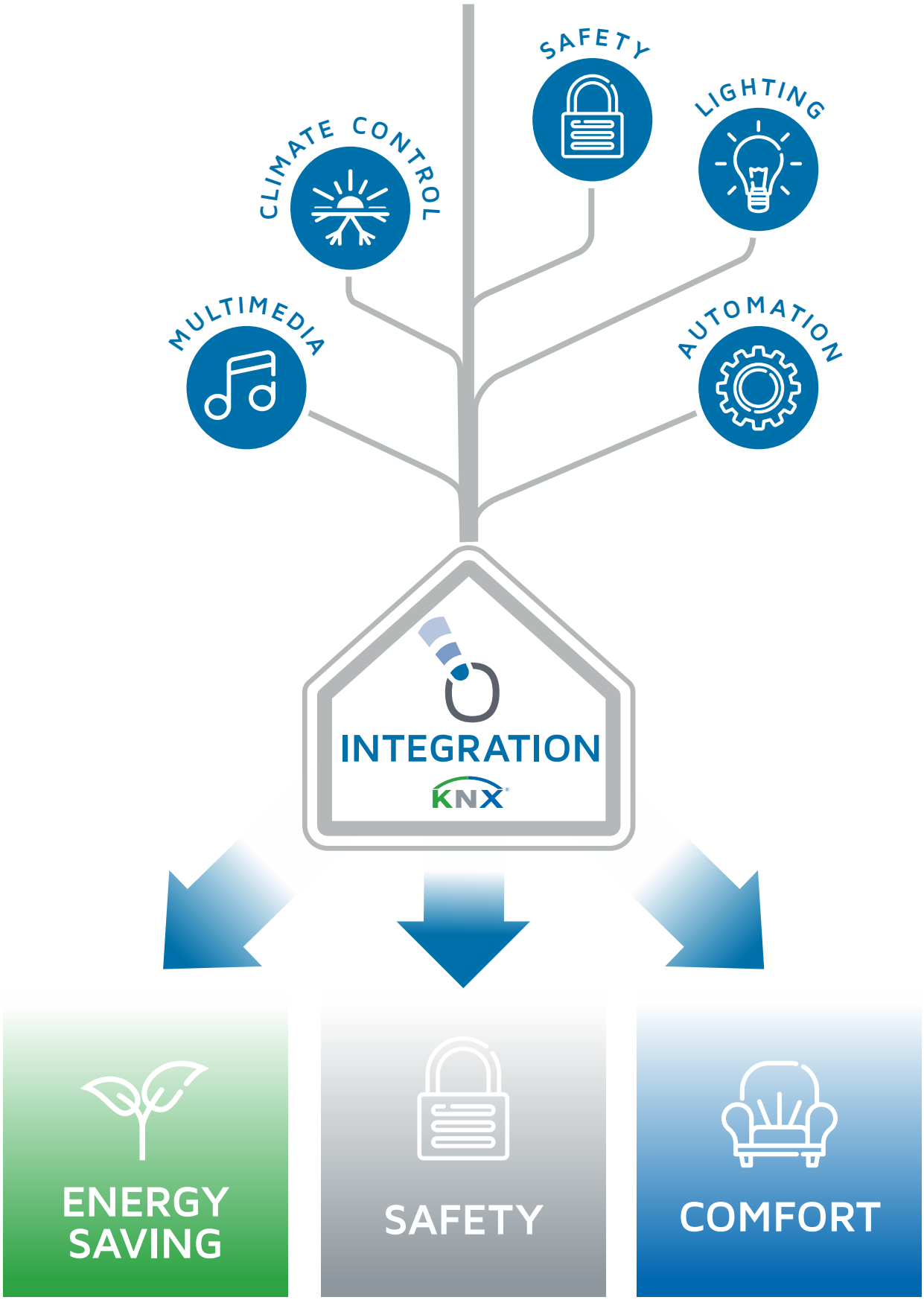
Control of the buildings

Blumotix manufactures intelligent devices for the automation and control of homes and buildings, developed according to the data communication protocol of the international KNX standard.
Creating a system with Blumotix devices means increasing the comfort and safety of use, reducing energy consumption and increasing the value of the building thanks to the products characterised by their ease of use along with their elegant and customizable design.

Producing a Blumotix home automation system is simple and economically sustainable. In the planning stages, simply select the most suitable devices for performing the desired function before arranging them in field according to the regulation and directions set out under the KNX protocol. The connection, completed by means of a special bus cable, guarantees communication between the various components installed and represents the network for information exchange.

The scalability, typical of a Building Automation system created with KNX technology and distributed intelligence typical of such systems, also means costs can be broken down proportionally, avoiding having to make any large initial investments.
Blumotix KNX product range includes system devices, devices dedicated to individual application functions and accessories.

The system devices facilitate the operation of the bus system, whilst the equipment dedicated to the individual application functions is developed to perform command, control and/or monitor the various technical installations of the building – such as lighting, heating, shading, audio and so on. Each object has an internal module for communication with the KNX bus, rendering each autonomous and interoperable, capable of working with over 7,000 devices on the market belonging to the same international standard.


SAFETY
LIGHTING
CLIMATE CONTROL
MULTIMEDIA
AUTOMATION
INTEGRATION
KNX
ENERGY SAVING
SAFETY
COMFORT

Fields and Applications

Hall and waiting rooms

The Qubik multifunctional control panel with integrated temperature regulator renders it possible to create a comfortable and pleasant environment. Here there are two appliances in one: an elegant multifunctional and freely-configurable keypad for controlling lighting, scenarios, shutters or any other command along with an intelligent control unit for adjusting the room temperature according to individual needs and times.

Corridors

Corridors in offices are often used only in transit yet always require a guaranteed minimum degree of brightness, which remains constant throughout the various hours of the day even as the sun exposure changes. Thanks to Blumotix's motion and presence detectors, it is possible to define the degree of brightness and have the system adapt to the external conditions and the passage of people.
Everyday comfort, safety and energy efficiency coexist at all times on the KNX protocol.

KNX solutions for shops, advanced services and shopping centres

Lighting management is certainly one of the salient features to bear in mind within any retail environment. After all, illuminating objects in the right way and enhancing their characteristics helps to sell quicker and better. Through a single DALI actuator, up to 64 bulbs can be adjusted to define the degree of brightness and the status of each light, along with setting 16 different predefined scenarios.

Temperature regulation also becomes an important factor. Visiting a commercial area in which there is the right temperature and correct humidity means customers and visitors are in the ideal conditions, encouraging them to remain in the space for a long time and significantly increasing the chances of making a purchase.
Even the management of signage can now be automated – not only in terms of defined timeframes but also the activation with light sensors or through astronomical calendars that turn on the signage at sunset.

Theaters, cinemas but also churches and sports centres

The main feature of such environments is to accommodate large numbers of people who gather to participate in events, shows and all kinds of gatherings. Safety along with comfort and operational flexibility are the main components that must be taken into account in managing buildings for such occasions.
Programmed commands activate predefined scenarios to adjust the intensity of the lights and create the right atmosphere, CO_2 sensors to always guarantee proper air quality and to automatically activate forced ventilation when necessary, safety numeric keypads that enable areas reserved for personnel only and touch screens capable of centralising commands and on which alarms and supervision devices converge.

Schools and Universities

School environments are generally multidisciplinary areas in which there are various environments, such as classrooms, corridors, gyms and assembly areas. Each of these needs to be managed in terms of light, temperature and presence, along with safety and supervision.
The set-up can also manage the transition from standard time to summer time with predefined schedules, whilst there is the possibility to utilise the technology in the classrooms in a variable manner, integrating the different technological tools present (PCs, interactive whiteboard, laboratory equipment) with home automation, along with air-quality control and general supervision of security systems.
The opportunity to respond to such needs renders schools and universities ideal buildings in which to use KNX systems.

Hotels and accommodation facilities

Particular attention is paid to all accommodation facilities, which in Italy exceed 34,000 units.
B&Bs, farmhouses, motels and hotels of all categories and levels scattered throughout the Italian territory represent a fundamental resource in a market that is always seeking elements able to guarantee customers a distinctive experience in terms of comfort and safety.
Needs vary according to the type of structure. Thanks to the Blumotix solutions, however, it is possible to customize services according to the requirements at hand.
Through "Doory" numeric keypad, the real heart of the system, it is possible to manage entrance to the rooms with the utmost security and flexibility. Differentiated management according to the type of accommodation facility, option to send the security codes via email if there is no reception (such as for farmhouses and B&Bs) or advanced solutions for hotels equipped with management software dedicated to billing and technological supervision of the systems..

Aesthetic coordination and simplicity

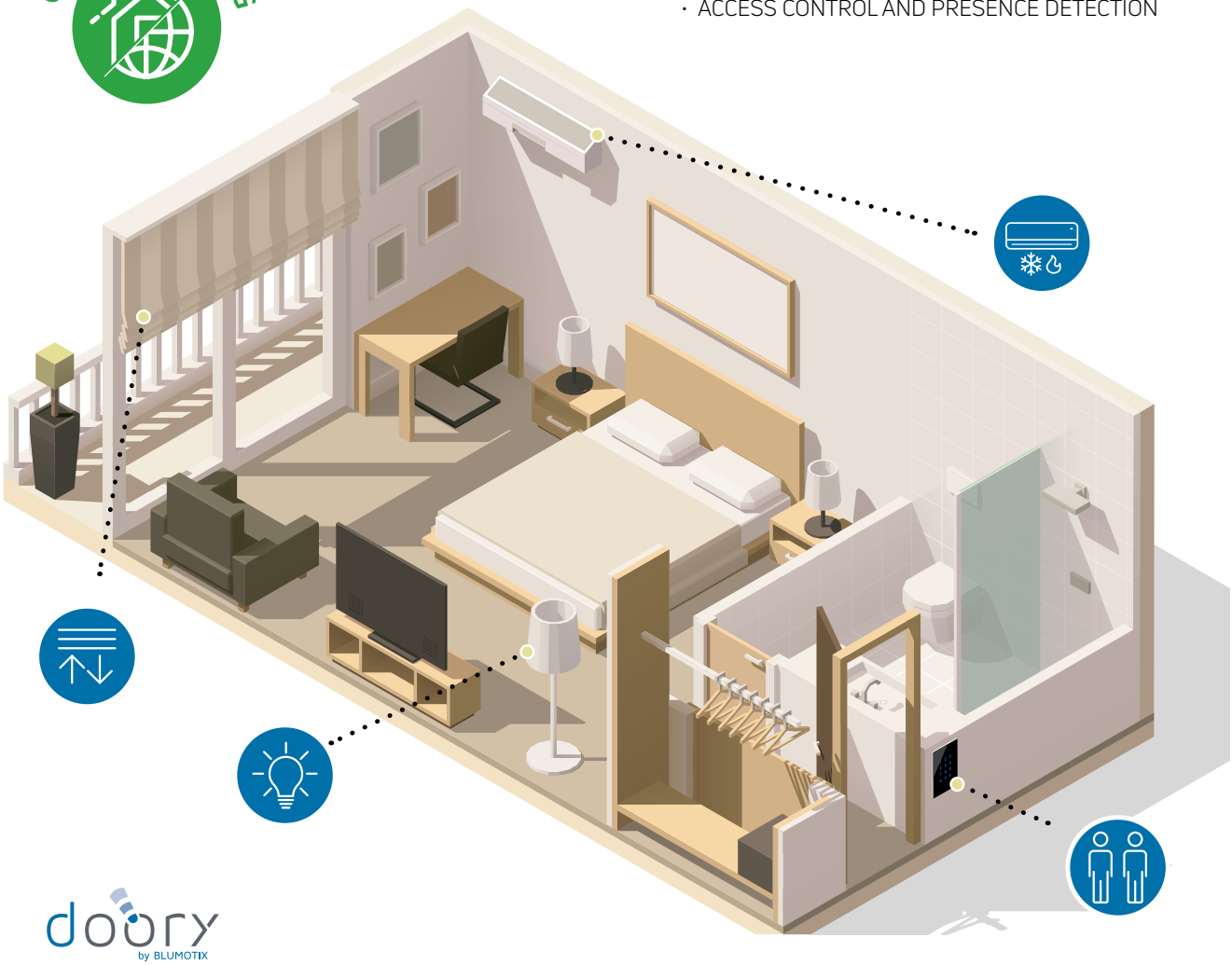
"Doory" glass numeric keypads perfectly coordinate with the KNX commands of the "Qubik" collection in offering a complete solution for the internal and external management of the rooms (presence, power, lights, shutters, climate and so on) and common areas. Each device can store up to 1000 codes, guaranteeing customers and service personnel maximum flexibility.

From small establishments to five-star hotels

Hotel management systems must always guarantee extreme safety for customers and managers.
If there is no continuous supervision, access keys must be issued to customers in a safe manner. It is in this context that the characteristics of Blumotix solutions truly come to the fore.
Indeed, thanks to a special application provided free of charge, it is possible to remotely send to customers the numerical security codes able to open and operate the room for the period reserved. Moreover, a suitably-configured motion detector signals the presence of the guest inside the room and optimises energy consumption.

Aspects that can be controlled in hotel room thanks to the automation system:

- LIGHTS
- WINDOWS - SHUTTERS - BLINDS
- CLIMATE - HEATING/COOLING
- ACCESS CONTROL AND PRESENCE DETECTION



Some advantages of using the home automation system for room management are:

- Optimisation and reduction of management costs in terms of accommodation services: reception and concierge
- Energy Saving: integrated control of lights, climate, windows, curtains and shutters
- Security: room attendance control, through the access control system

NEMO: management BMS software

In addition to the numeric keypad for access control, on large complex structures where it is necessary to have more capillary management of the individual services and where it is essential for staff to have a total overview of the systems, a complete solution is available that is able to provide a 360° view of the establishment. This solution can also communicate with the (optional) billing management systems and connect remotely, facilitating the interoperability between different reception areas.

NEMO (Networking Enterprise Management Optimization) management software has a graphical interface simple, which allows the management of all technological systems present within the structure (also with technologies other than KNX).
It is available on different platforms (PC, tablet, smartphone); the simple and intuitive graphic interface allows you to offer a high quality service to managers, while reducing consumption and management costs.

Cod	Type
BX-HTLS1	Sw NEMO Hotel MINI <15 rooms
BX-HTLS2	Sw NEMO Hotel BASIC <30 rooms
BX-HTLS3	Sw NEMO Hotel STANDARD < 60 rooms
BX-HTLS4	Sw NEMO Hotel PROFESSIONAL <100 rooms
BX-HTLS5	Sw NEMO Hotel ENTERPRISE <200 rooms
BX-HTLS1-365	Sw 365 NEMO Hotel MINI <15 rooms
BX-HTLS2-365	Sw 365 NEMO Hotel BASIC <30 rooms
BX-HTLS3-365	Sw 365 NEMO Hotel STANDARD < 60 rooms
BX-HTLS4-365	Sw 365 NEMO Hotel PROFES <100 rooms
BX-HTLS5-365	Sw 365 NEMO Hotel ENTERPR <200 rooms

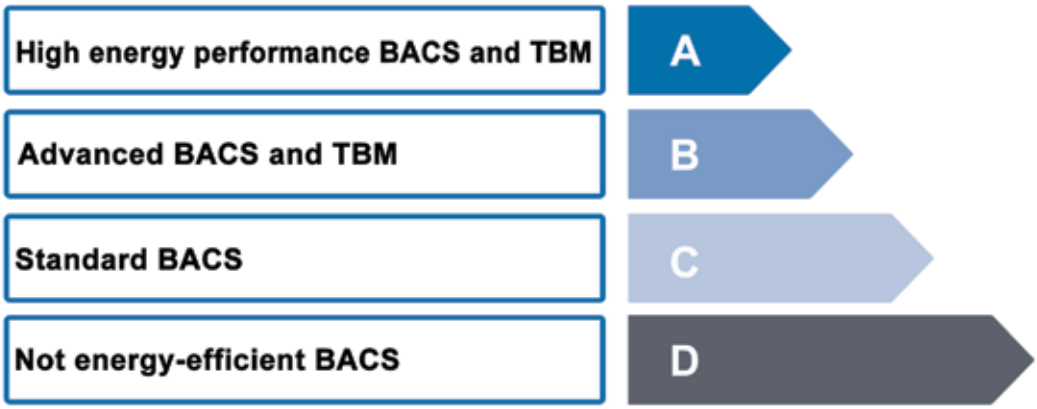
By choosing BX-HTLSx-365 solution, you purchase a license that allows you to have continuous technical assistance and annual software update.

The European Directive EN ISO 52120-1 on energy savings

It is estimated that buildings in the residential and tertiary market utilise over 40% of available energy, consequently becoming the main contributors to carbon dioxide (CO_2) emissions.
Energy efficiency inevitably becomes the first strategy in coping with the growing demand for power. There are three main ways to obtain it, through:

- passive system
- active system
- behaviours

EN ISO 52120-1 is the standard introduced through the European Directive in the field of energy efficiency. The EPBD (Energy Performance of Buildings Directive) defines the impact of automation set-ups (active systems) on the energy performance of the building.
By way of example, four efficiency classes have been introduced, each of which is identified by a letter (from A to D). The letter "D" marks the lower class, being equivalent to a building without any automation system; the letters "C" to "A" represent a higher degree of automation, with the letter "A" being the maximum level.



Class D – "NON-ENERGY EFFICIENT": includes traditional technical systems without automation and control, not being efficient from an energy point of view;
Class C – "STANDARD" (reference): corresponds to systems equipped with "traditional" Building Automation and Control Systems (BACS), possibly equipped with a communication BUS;
Class B – "ADVANCED": includes systems equipped with an advanced Building Automation and Control System (BACS) whilst also being fitted with certain functions for the Technical Building Management (TBM) systems specific to the centralised and coordinated handling of individual systems. "Room controller devices must be able to communicate with the building automation system."
Class A – "HIGH ENERGY PERFORMANCE": corresponds to the best BAC and TBM systems, offering levels of precision and completeness for the automatic control such as to guarantee the best energy functioning for the system. "Room controllers must be able to manage HVAC systems, taking into account various factors (for example, pre-set values based on presence detection, air quality, etcetera) and include additional integrated functions for multidisciplinary rapports between HVAC and various building services (such as the electricity, lighting, sunshading, and so on)."

Once equipped with automation and control systems, one of these classes is assigned to the building.
The potential for thermal and electrical energy can be calculated for each class based on the type of building and its relative use. The values of Energy Class C are used as a reference for comparing the efficiency.

BACS energy-efficiency factors in non-residential buildings

Type of building/ place	BACS efficiency classes and factors				Energy saving (ref. Class D)			Energy saving (ref. Class C)	
	D Without automation	C (rif.) Standard automation	B Advanced automation	A High efficiency	C/D	B/D	A/D	B/C	A/C
Offices	1.10	1.00	0.93	0.87	9%	15%	21%	7%	13%
Conference rooms	1.06	1.00	0.94	0.89	6%	11%	16%	6%	11%
Schools	1.07	1.00	0.93	0.86	7%	13%	20%	7%	14%
Hospitals	1.05	1.00	0.98	0.96	5%	7%	9%	2%	4%
Hotels	1.07	1.00	0.95	0.90	7%	11%	16%	5%	10%
Restaurants	1.04	1.00	0.96	0.92	4%	8%	12%	4%	8%
Shops/Wholesalers	1.08	1.00	0.95	0.91	7%	12%	16%	5%	9%

BACS energy-efficiency factors in residential buildings

Type of building/ place	BACS efficiency classes and factors				Energy saving (ref. Class D)			Energy saving (ref. Class C)	
	D Without automation	C (rif.) Standard automation	B Advanced automation	A High efficiency	C/D	B/D	A/D	B/C	A/C
Apartments, villas, other buildings	1.08	1.00	0.93	0.92	7%	14%	15%	7%	8%

A NEED FOR AWARENESS: home automation and energy savings

Why connect the need for awareness with energy savings? It may seem like a bit of a gamble but home automation integrated with solar power and heating systems ensures great economic and comfort advantages. A smart home is also an eco-friendly home. Not surprisingly, home automation systems increase the energy class and value of the property. The systems that can be managed include: boilers, air-conditioners, heat pumps and solar-run appliances.

Only when INTEGRATION
achieves HARMONY,
technology
transforms itself in beauty.

Our control Apps

Blumotix KNX home automation is based on Safety, Ecology, Comfort and Italian Design.

Thanks to KNX Blumotix products, safety, comfort and energy savings become smart and integrated into your home. With KNX domotics you get an unlimited number functions for home automation with a unique range of products.
Blumotix devices combine innovative technology with the Italian design.


Lighting


Blinds, curtains and shutters


Automated systems


Temperature control


Humidity control


Fancoil


Climate control

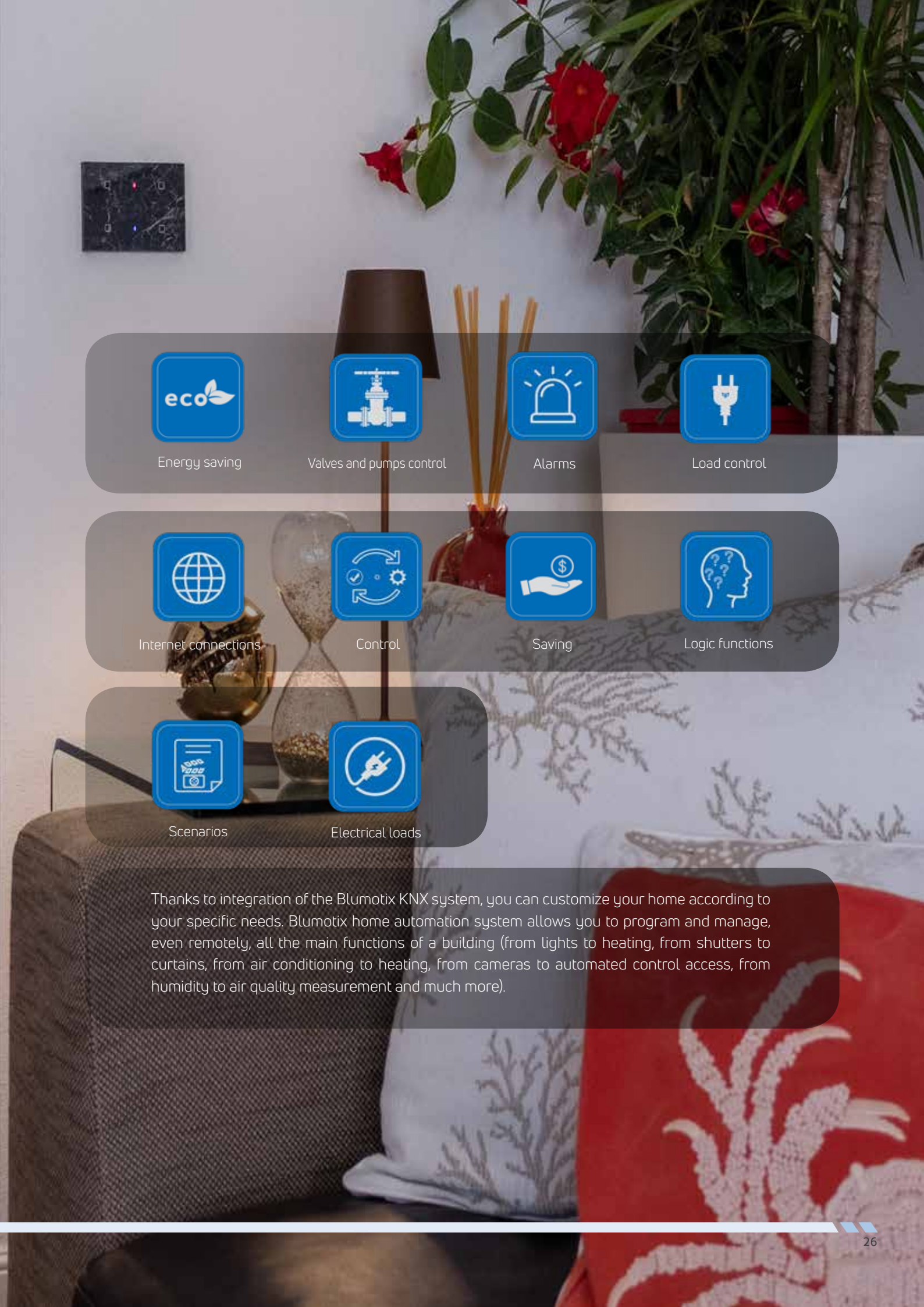

CO2


Access control


Room control


Presence control


Supervision



Thanks to integration of the Blumotix KNX system, you can customize your home according to your specific needs. Blumotix home automation system allows you to program and manage, even remotely, all the main functions of a building (from lights to heating, from shutters to curtains, from air conditioning to heating, from cameras to automated control access, from humidity to air quality measurement and much more).

QUBIK COLLECTION

Control keypads and thermostats

The "Qubik collection" is a range of glass touch button keypads and thermostats. The collection includes five exclusive designs: Line - Button - Icon - Marble - Vertical.

The Qubik collection keypads feature a high level of touch control technology and can be programmed according to the needs of the user. They are available in versions with 2, 4 and 8 channels, with an integrated temperature sensor. It is possible to activate functions in three different modes: by a simple touch (short press), by a long pressure and with a sequential pressure (multifunction).
The keypads support several control functions: lights, shutters and blinds, dimmers, scenarios, etc.

By having a single flush-mounted electronic engineering base, it is possible to choose and combine different designs in an original way, as they are interchangeable in the front plates. This also allows the fronts to be changed at any time after the first purchase without having to replace the entire device. For all the glass lines, the collection includes the equivalent thermostats, which can also be customised.

The Qubik collection, in all its versions, offers the great opportunity of being able to customise the fronts according to specific customer requirements.

Qubik collection thermostats are available in 4/8 capacitive button versions and are equipped with a central OLED display with blue characters and two RGB LEDs. In the 8-button version (Button and Marble) 4 buttons are freely configurable, 4 dedicated to temperature control and 2 RGB LEDs are freely programmable. The device includes a thermostat with integrated PI controller for driving heating and cooling appliances, valves and 2- and 4-pipe fancoils.
The version with temperature, humidity and CO2 sensor is available in the Button, Marble and Vertical lines shown below.
The humidity sensor measures the dew point, preventing the creation of condensation inside the room. Through setting humidity thresholds, it is possible to activate dehumidifiers or CMV (controlled mechanical ventilation).
The CO2 probe sends PPM and COV VOC (volatile organic compounds) values with output signal for CO2 equivalent. Through such detection it is possible to constantly monitor air quality and define emergency thresholds.
Within the devices, a logic enables detection of any presence inside the hotel and accomodation facility rooms, for the activation and deactivation of functions aimed at saving energy. As with the keypads, also for the thermostat it is possible to request the customization of the glasses.


27.3
26.0°C
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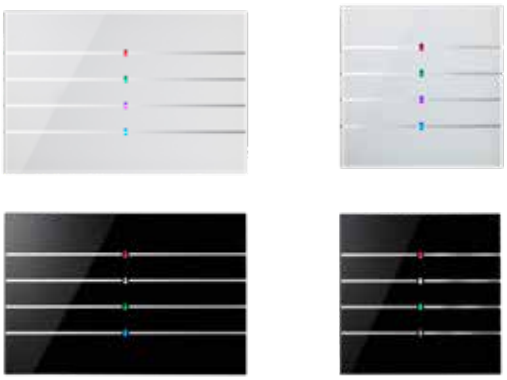
TOUCH YOUR WORLD

QUBIK
Glass Line

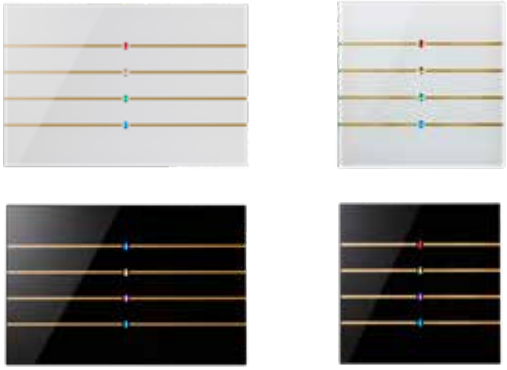
CAPACITIVE KEYPADS
Glass Line

KNX glass keypad, rectangular/square, black/ white, with silver lines

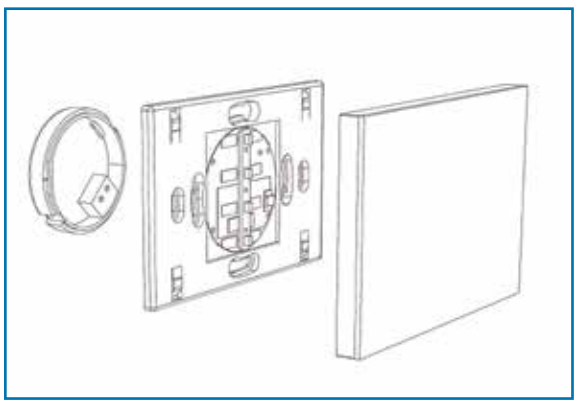


Model	Cod. Cover	Cod. Elettronics
rectangular white	BX–F-RKWG-SILVER	BX-E-R8
square-white	BX–F-QKWG-SILVER	BX-E-Q8
rectangular black	BX–F-RKBG-SILVER	BX-E-R8
square black	BX–F-QKBG-SILVER	BX-E-Q8

KNX glass keypad, rectangular/square, black/ white, with gold lines



rectangular white	BX–F-RKWG-GOLD	BX-E-R8
square-white	BX–F-QKWG-GOLD	BX-E-Q8
rectangular black	BX–F-RKBG-GOLD	BX-E-R8
square black	BX–F-QKBG-GOLD	BX-E-Q8



TECHNICAL DATA

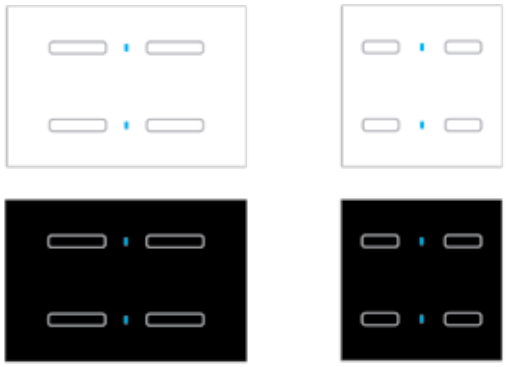
- Power supply: via KNX bus, 29 V dc SELV
- Current consumption from bus < 10 mA
- Version with up to 8 freely configurable functions
- 4 freely programmable RGB LEDs
- Integrated temperature sensor
- Room thermostat function
- Plastic casing
- Recessed wall mounting on round, rectangular or square housing
- Operating temperature: -5 ÷ +45 °C (indoor use)
- Connection to bus line via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

QUBIK

Glass Button

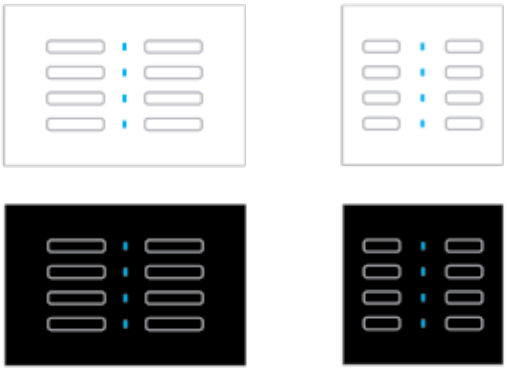
CAPACITIVE KEYPADS
Glass Button

Glass keypad, rectangular/square, black/ white, 4 buttons.

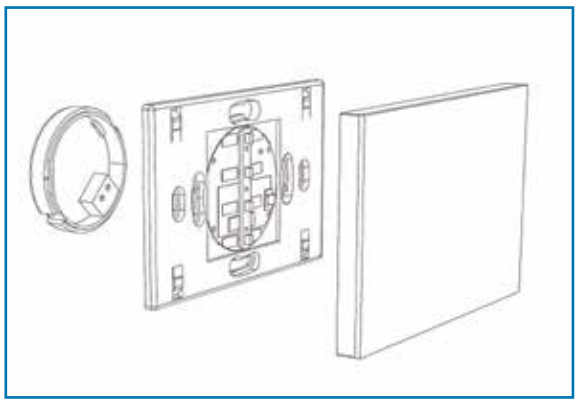


Model	Cod. Cover	Cod. Elettronics
rectangular white	BX–F-RW4N	BX-E-R4
square white	BX–F-QW4N	BX-E-Q4
rectangular black	BX–F-RB4N	BX-E-R4
square black	BX–F-QB4N	BX-E-Q4

Glass keypad, rectangular/square, black/ white, 8 buttons.



rectangular white	BX–F-RW8N	BX-E-R8
square white	BX–F-QW8N	BX-E-Q8
rectangular black	BX–F-RB8N	BX-E-R8
square black	BX–F-QB8N	BX-E-Q8



TECHNICAL DATA

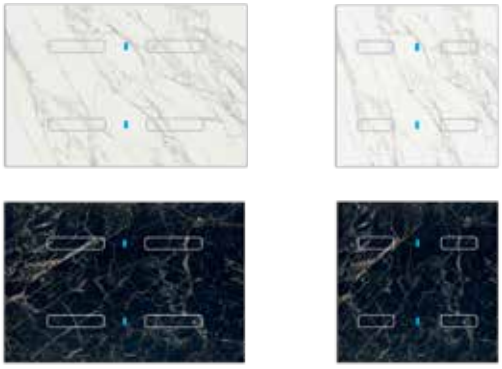
- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by bus < 10 mA
- Version with 4/8 customizable functions
- 2/4 freely configurable RGB Leds
- Integrated temperature sensor
- Room thermostat function
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

QUBIK

Glass Marble

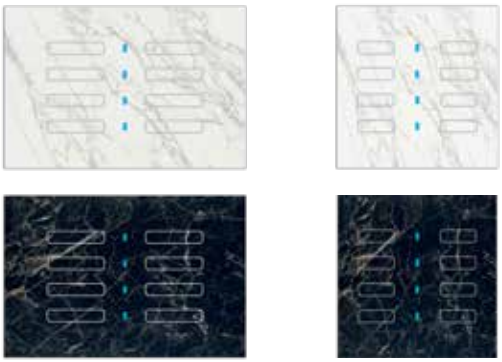
CAPACITIVE KEYPADS
Glass Marble

Glass keypad with marble effect, rectangular/square, black/white, 4 buttons.

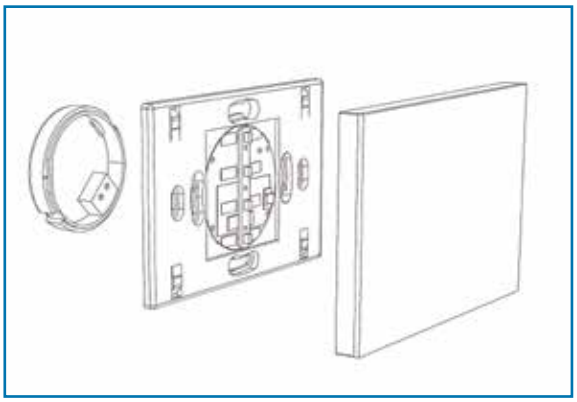


Model	Cod. Cover	Cod. Elettronics
rectangular white	BX–F-RWM4N	BX-E-R4
square white	BX–F-QWM4N	BX-E-Q4
rectangular black	BX–F-RBM4N	BX-E-R4
square black	BX–F-QBM4N	BX-E-Q4

Glass keypad with marble effect, rectangular/square, black/white, 8 buttons



rectangular white	BX–F-RWM8N	BX-E-R8
square white	BX–F-QWM8N	BX-E-Q8
rectangular black	BX–F-RBM8N	BX-E-R8
square black	BX–F-QBM8N	BX-E-Q8



TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by bus < 10 mA
- Version with 4/8 customizable functions
- 2/4 freely configurable RGB Leds
- Integrated temperature sensor
- Room thermostat function
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

QUBIK
Glass Icon

TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by bus < 10 mA
- Version with 2/4/8 customizable functions
- 2/4 freely configurable RGB Leds
- Integrated temperature sensor
- Room thermostat function
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

All keypads are available in square and rectangular versions in white and black colours.

CAPACITIVE KEYPADS
Glass Icon

Glass keypad with 1 shutter control and 2 light ON-OFF controls

Model	Cod. Cover	Cod. Elettronics
square white	BX-F-QQWLGN	BX-E-Q8L
square black	BX-F-QQBLGN	BX-E-Q8L
rectangular white	BX-F-QRWLGN	BX-E-R8L
rectangular black	BX-F-QRBLGN	BX-E-R8L

Glass keypad with 1 light control and 2 light ON-OFF controls

Modello	Cod. Cover	Cod. Elettronics
square white	BX-F-QQWLHN	BX-E-Q8L
square black	BX-F-QQBLHN	BX-E-Q8L
rectangular white	BX-F-QRWLHN	BX-E-R8L
rectangular black	BX-F-QRBLHN	BX-E-R8L

Glass keypad with 2 light ON-OFF controls

square white	BX-F-QQWLAN	BX-E-Q4L
square black	BX-F-QQBLAN	BX-E-Q4L
rectangular white	BX-F-QRWLAN	BX-E-R4L
rectangular black	BX-F-QRBLAN	BX-E-R4L

Glass keypad with 2 Shutter/Venetian blind controls

square white	BX-F-QQWLDN	BX-E-Q8L
square black	BX-F-QQBLDN	BX-E-Q8L
rectangular white	BX-F-QRWLDN	BX-E-R8L
rectangular black	BX-F-QRBLDN	BX-E-R8L

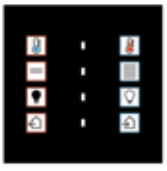
Glass keypad with 2 predefined “in/out” and “roller shutter up/shutter down” scenarios

square white	BX-F-QQWLI	BX-E-Q4
square black	BX-F-QQBLI	BX-E-Q4
rectangular white	BX-F-QRWLI	BX-E-R4
rectangular black	BX-F-QRBLI	BX-E-R4

Glass keypad with 2 light settings

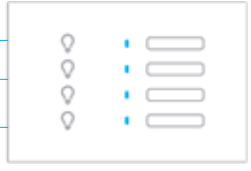
square white	BX-F-QQWLFN	BX-E-Q8L
square black	BX-F-QQBLFN	BX-E-Q8L
rectangular white	BX-F-QRWLFN	BX-E-R8L
rectangular black	BX-F-QRBLFN	BX-E-R8L

Glass keypad with 4 predefined scenarios “indoors/outdoors” - “roller shutters up/shutter down” - “light ON/light OFF” - “thermo ON/thermo OFF”.



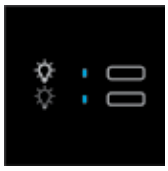
square white	BX-F-QQWLM	BX-E-Q8
square black	BX-F-QQBLM	BX-E-Q8
rectangular white	BX-F-QRWLM	BX-E-R8
rectangular black	BX-F-QRBLM	BX-E-R8

Glass keypad with 4 light ON/OFF controls



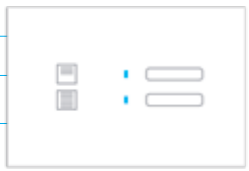
square white	BX-F-QQWLBN	BX-E-Q8L
square black	BX-F-QQBLBN	BX-E-Q8L
rectangular white	BX-F-QRWLBN	BX-E-R8L
rectangular black	BX-F-QRBLBN	BX-E-R8L

Glass keypad with 1 light control



square white	BX-F-QQWLEN	BX-E-Q4L
square black	BX-F-QQBLEN	BX-E-Q4L
rectangular white	BX-F-QRWLEN	BX-E-R4L
rectangular black	BX-F-QRBLEN	BX-E-R4L

Glass keypad with 1 Shutter/Venetian blind control



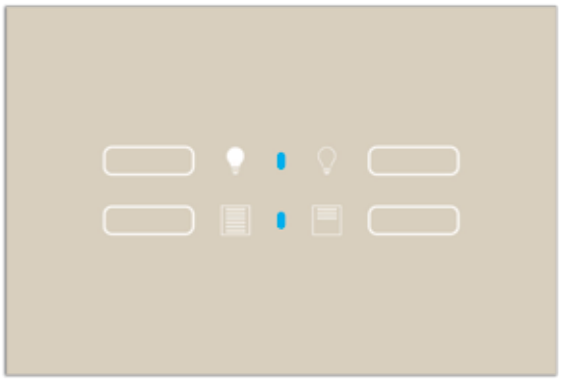
square white	BX-F-QQWLCN	BX-E-Q4L
square black	BX-F-QQBLCN	BX-E-Q4L
rectangular white	BX-F-QRWLCN	BX-E-R4L
rectangular black	BX-F-QRBLCN	BX-E-R4L

QUBIK

Glass Icon - Customizzation

CAPACITIVE THERMOSTATS AND KEYPADS
Glass Icon - C

Thermostats and keypads of Qubik Glass - Icon Collection are customizable in the position and choice of the icons. Below are some examples of possible customization. The glass colour of Qubik Collection is standard black and white, but it is customizable on customer request.



Here are the set of icons available for glasses customization:

QUBIK

Glass Vertical

TECHNICAL DATA KEYPADS

- Power supply: via KNX bus, 29 V dc SELV
- Current consumption from bus < 10 mA
- 4/8 freely configurable functions
- 4 freely programmable RGB LEDs
- Integrated temperature sensor
- Room thermostat function
- Plastic casing
- Recessed wall mounting on round, rectangular or square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to bus line via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Thickness: 8 mm

TECHNICAL DATA THERMOSTATS

- Power supply: via KNX bus, 29 V dc SELV
- Current consumption from bus < 10 mA
- OLED display with blue backlighting
- 4 capacitive buttons for thermostat function control
- Temperature and humidity function control
- Plastic casing
- Programming button and LED on the rear
- Recessed wall mounting on round, rectangular or square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to bus line via KNX terminal
- IP20 degree of protection (installed)
- Dimensions: square 80 X 80 mm
- Thickness: 8 mm

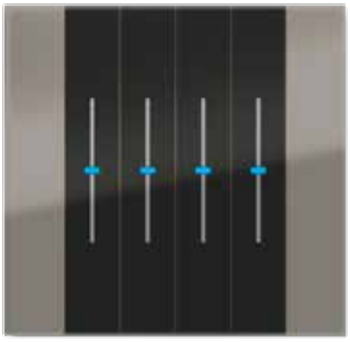
CAPACITIVE KEYPADS
Glass Vertical

Square glass keypad, cream, on white base, 8 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQCV	BX-E-Q8

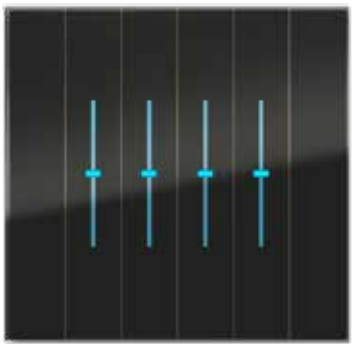
Square glass keypad, grey, on black base, 8 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQGV	BX-E-Q8



Square glass keypad, black, on black base, 8 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQBV	BX-E-Q8



CAPACITIVE THERMOSTATS
Glass Vertical

Square glass thermostat, on white base 4 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQCVT	BX-E-QTU

Square glass thermostat, grey, on black base, 4 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQGVT	BX-E-QTU

Square glass thermostat, black, on black base, 4 functions

Model	Cod. Cover	Cod. Elettronics
square	BX-F-QQBVT	BX-E-QTU

QUBIK

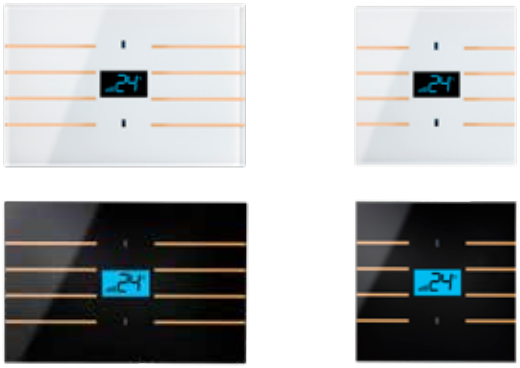
Capacitive Thermostat Glass Line

CAPACITIVE THERMOSTATS
Glass Line

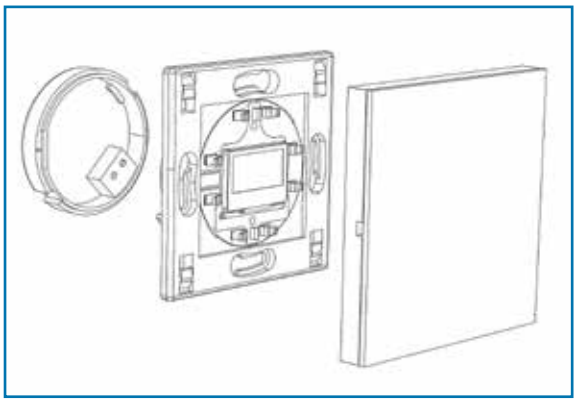
KNX glass thermostat, rectangular/square, black/ white, with silver lines.

Model	Cod. Cover	Cod. Elettronics
square white	BX–F-QKWGT-SILVER	BX-E-QT8
rectangular white	BX–F-RKWGT-SILVER	BX-E-RT8
square black	BX–F-QKBGT-SILVER	BX-E-QT8
rectangular black	BX–F-RKBGT-SILVER	BX-E-RT8

KNX glass thermostat, rectangular/square, black/ white, with gold lines.



square white	BX–F-QKWGT-GOLD	BX-E-QT8
rectangular white	BX–F-RKWGT-GOLD	BX-E-RT8
square black	BX–F-QKBGT-GOLD	BX-E-QT8
rectangular black	BX–F-RKBGT-GOLD	BX-E-RT8



TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by KNX bus <10 mA
- OLED display with blue backlight
- 4 capacitive buttons to control thermostat functions
- Freely configurable 4 RGB rear Leds
- 4 freely configurable inputs
- Button and programming Led on the back
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

QUBIK

Capacitive Thermostats Glass Button

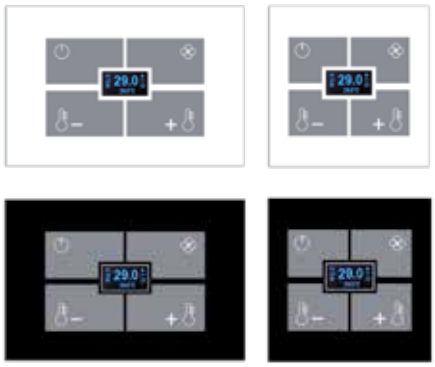
NEW DESIGN

CAPACITIVE THERMOSTATS
Glass Button

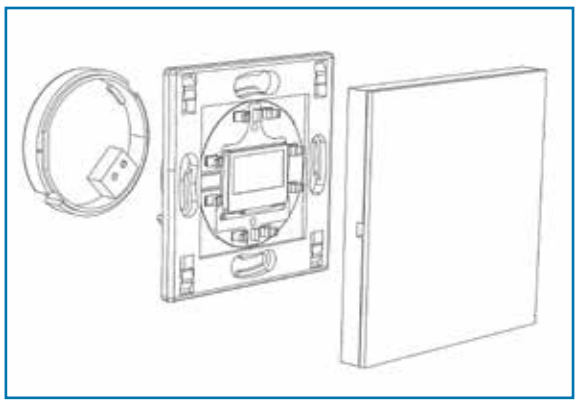
KNX thermostat in square/rectangular black/white glass, with 4 programmable functions

Model	Cod. Cover	Cod. ElettronicTemp.	Cod. Elettronic Temp/ Humidity	Cod. Elettronic Temp/ Humidity/CO2
square white	BX–F-QWT4N	BX-E-QT4	BX-E-QTU4	BX-E-QTU4C2
rectangular white	BX–F–RWT4N	BX-E-RT4	BX-E-RTU4	BX-E-RTU4C2
square black	BX–F-QBT4N	BX-E-QT4	BX-E-QTU4	BX-E-QTU4C2
rectangular black	BX–F–RBT4N	BX-E-RT4	BX-E-RTU4	BX-E-RTU4C2

KNX thermostat in square/rectangular black/white glass



square white	BX–F-QWT	BX-E-QT	BX-E-QTU	BX-E-QTUC2
rectangular white	BX–F–RWT	BX-E-RT	BX-E-RTU	BX-E-RTUC2
square black	BX–F-QBT	BX-E-QT	BX-E-QTU	BX-E-QTUC2
rectangular black	BX–F–RBT	BX-E-RT	BX-E-RTU	BX-E-RTUC2



TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by KNX bus <10 mA
- OLED display with blue backlight
- 4 capacitive buttons to control thermostat functions
- Freely configurable 2 Leds (only in BX-RWT4,
- BX-RBT4, BX-QWT4, BX–QBT4)
- 4 freely configurable inputs (only in BX-RWT4,
- BX-RBT4, BX-QWT4, BX-QBT4)
- Button and programming Led on the back
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

QUBIK

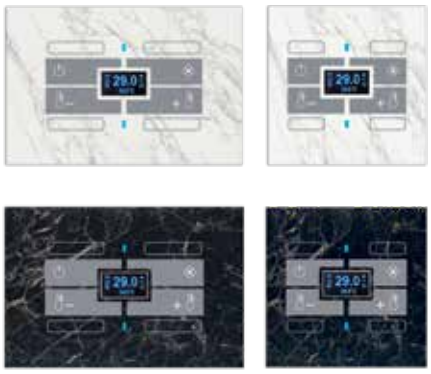
Capacitive Thermostats Glass Marble

NEW DESIGN

CAPACITIVE THERMOSTATS

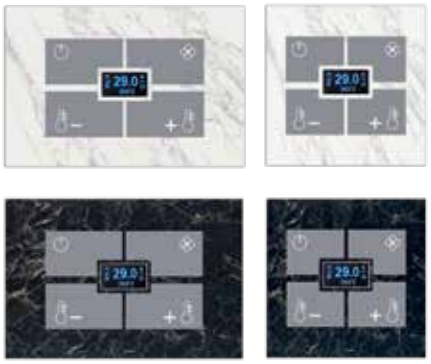
Glass Marble

Marble-effect glass square/rectangular black/white KNX thermostat with 4 programmable functions

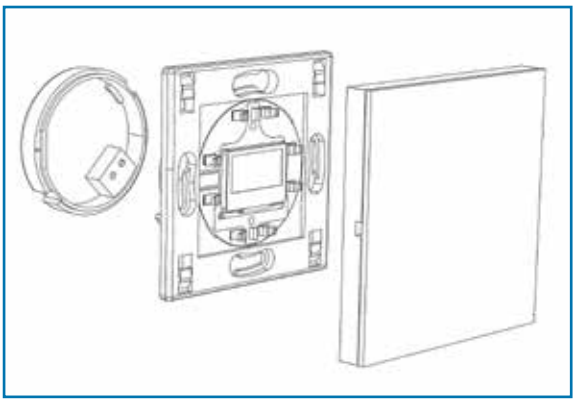


Model	Cod Cover	Cod. Elettronic Temp.	Cod. Elettronic Temp/Humidity	Cod. Elettronic Temp/ Humidity/CO2
square white	BX–F-QWMT4N	BX-E-QT4	BX-E-QTU4	BX-E-QTU4C2
rectangular white	BX–F–RWMT4N	BX-E-RT4	BX-E-RTU4	BX-E-RTU4C2
square black	BX–F-QBMT4N	BX-E-QT4	BX-E-QTU4	BX-E-QTU4C2
rectangular black	BX–F–RBMT4N	BX-E-RT4	BX-E-RTU4	BX-E-RTU4C2

Marble-effect glass square/rectangular black/white KNX thermostat



square white	BX–F-QWMT	BX-E-QT	BX-E-QTU	BX-E-QTUC2
rectangular white	BX–F–RWMT	BX-E-RT	BX-E-RTU	BX-E-RTUC2
square black	BX–F-QBMT	BX-E-QT	BX-E-QTU	BX-E-QTUC2
rectangular black	BX–F–RBMT	BX-E-RT	BX-E-RTU	BX-E-RTUC2



TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current Consumption by KNX bus <10 mA
- OLED display with blue backlight
- 4 capacitive buttons to control thermostat functions
- Freely configurable 2 Leds (BX-RWMT4, BX-RBMT4, BX-QWMT4, BX-QBMT4)
- 4 freely configurable inputs (only in BX-RWMT4, BX-RBMT4, BX-QWMT4, BX-QBMT4)
- Button and programming Led on the back
- Plastic case
- Flush-mounted on round, rectangular of square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Bus line connection via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

doory
by BLUMOTIX

Capacitive glass keypad for access control

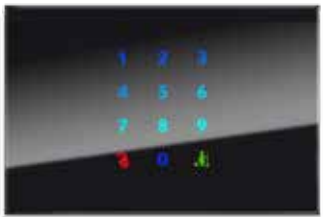
The numeric keypad doory

Doory is an smart numeric keypad that serves as an access control system. The doory numeric keypad is a glass KNX touch device, backlit and equipped with a proximity sensor. It is particularly suitable for hospitality establishments, as the glass can be customised with a room number and standard functions, typical of hotel services (do not disturb, make up room). The keypad provides management of room access via numeric code without the need for any other support (key or magnetic card).

Combined with the numeric keypad there is a glass KNX touch panel, to be installed inside the room, for the activation of functions related to the keypad and in direct communication with the reception for emergency signals.
The numeric keypad access control system can be integrated with the BMS BS-NEMO software, which can be interfaced with the main hotel management systems on the market, allowing the supervision and management of the hotel's systems and all its accesses from a smartphone, tablet or traditional PC.

NUMERIC KEYPADS
doory

Horizontal/vertical KNX keypad for access control in black/white glass, with customised hotel details



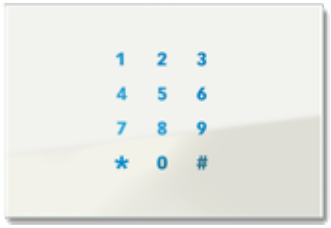
Model	Cod. Cover	Cod. Elettronics
horizontal white	BX–F-R120WH	BX–E-R120H
horizontal black	BX–F-R120BH	BX–E-R120H

vertical white	BX–F-R12VWH	BX–E-R12VH
vertical black	BX–F-R12VBH	BX–E-R12VH

Keypad with doorbell configuration

On request, it is customisable with room number, various colours and logos.

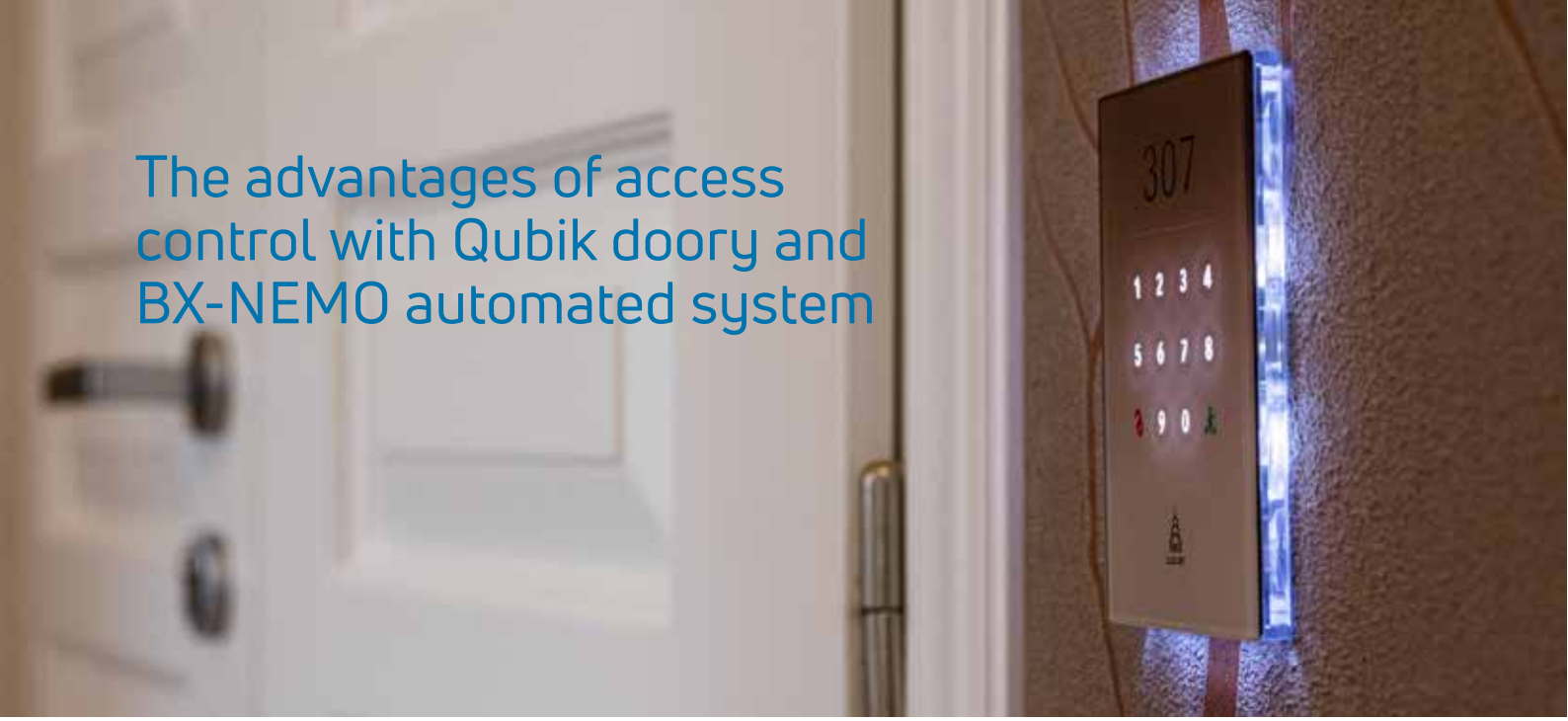
Horizontal/vertical KNX keypad for access control in black/white glass



Model	Cod. Cover	Cod. Elettronics
horizontal white	BX–F-R120WS	BX–E-R120S
horizontal black	BX–F-R120BS	BX–E-R120S

vertical white	BX–F-R12VWS	BX–E-R12VS
vertical black	BX–F-R12VBS	BX–E-R12VS

NOTE: The glass front panels of the Doory numeric keypads that will be marketed in Germany, France and Great Britain will be produced with silk-screen printing.



The advantages of access control with Qubik doory and BX-NEMO automated system

Simplified management of all hotel functions, via supervision software for use at reception:

- check-in/check-out
- no need for card programming/clearing
- control of room condition from reception
- control of room loads from reception

Energy efficiency and cost savings:

- Possible activation of room utilities (TV lighting, etc.) only when the guest is present in the room.
- Intelligent and optimised climate control
- Room presence management with virtual badge integrated into the keypad.

Security:

- Room access via numeric code
- Check room presence of guest and hotel staff from reception, or smartphone, or tablet
- Display of room alarms and alerts from reception, or smartphone, or tablet.
- There is also a basic version of the keypad, suitable for B&Bs, holiday farms and small resorts, which comes with the integrated use of two APPs: Doory and KRIM.
- The access control, in its basic version, can also be used in the residential or tertiary sector: office buildings, laboratories, common areas in apartment blocks, etc.

TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current consumption from bus < 20 mA
- Glass number keypads White or Black
- Each keypad includes the numbers 0 to 9 and the control keys # and * in the basic version and customisation with "do not disturb" and "make up room" symbols in the Hotel version.
- Backlighting of numbers in white
- Proximity sensor
- Front programming button
- PRG signalling LED
- Plastic casing
- Recessed wall mounting on round, square and rectangular box
- The KNX firmware installed is dedicated to access control, with the possibility of storing up to 100 codes of 4/6-digit length on the device.
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to bus line via KNX terminal
- IP20 degree of protection (installed)
- Dimensions: rectangular 120 X 80 mm
- Thickness: 8 mm

Panel Control Hotel Room

KNX control panel for hotel room interior, square, black/white

Model	Cod. Cover	Cod. Elettronics
square black	BX–F-F80B	BX–E-F80
square white	BX–F-F80W	BX–E-F80

KNX control panel for hotel room interior, rectangular, black/white

rectangular black	BX–F-F120B	BX–E-F120
rectangular white	BX–F-F120W	BX–E-F120

TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Current consumption from bus < 10 mA
- 4 freely programmable RGB LEDs
- Integrated temperature sensor
- Room thermostat function
- Plastic casing
- Recessed wall mounting on round, rectangular or square box
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to bus line via KNX terminal
- Degree of protection IP20 (installed)
- Dimensions: square 80 X 80 mm
- Dimensions: rectangular
- Thickness: 8 mm

KNX keyboard for external access control

BX-E-AK12

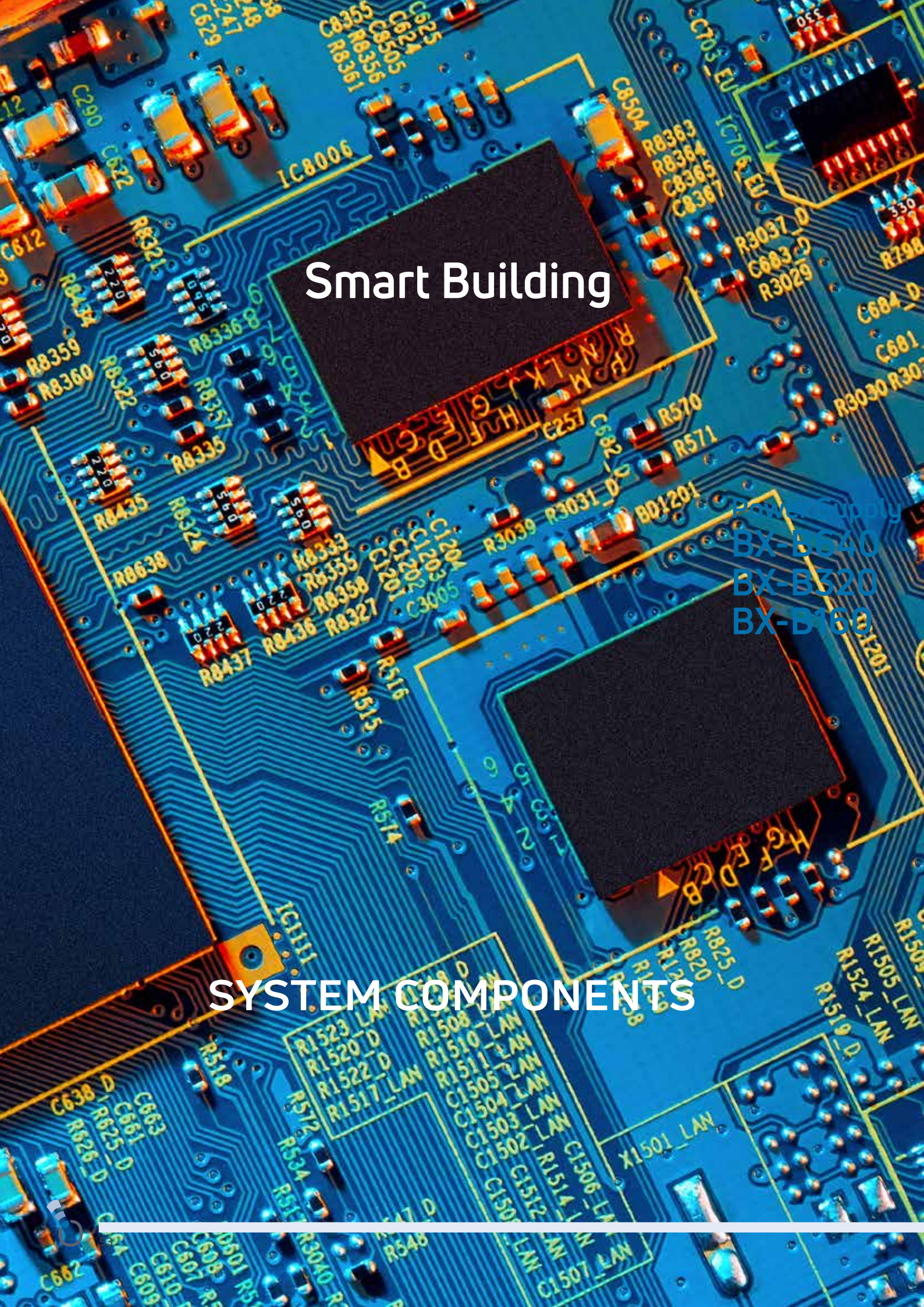
BX-E-AK12 is a smart numeric keypad that serves as an access control system. It is designed and manufactured for outdoor installations as it is watertight, dustproof and vandal-resistant. The enclosure is IP65 certified.

The numeric keypad is a KNX device with 12 mechanical keys and it is backlit on each individual key. In addition to the numeric keys, there are also 2 freely configurable keys (A and B). The keypad provides for the access management via numeric code without the need for any other support (key or magnetic card); the numeric code can be set to 4 or 6 digits. The pre-installed KNX firmware is dedicated to access control and it is able to store up to 1,000 codes.

BX-E-AK12 is particularly suitable for scattered hotels with several outdoor entrances, such as bungalows and resorts, and can also be used to compartmentalize industrial, civil and service facilities in general. Since it is a KNX device, it can be integrated into facilities where other KNX numeric keypads are provided internally for indoor access control, such as Qubik Doory numeric keypads.

TECHNICAL DATA

- Power supply via KNX 21-32 Vdc bus
- Current consumption from bus < 15 mA
- Number keypads made of black plastic material
- Each keypad includes numbers 0 to 9 and command keys A and B
- Backlighting of keys
- KNX programming mode input/output with button on the back and also by combination front buttons
- KNX programming indicator LEDs on the back and front
- Surface mounting on wall
- KNX software dedicated to access control, with the ability to store up to 1000 4- or 6-digit codes
- Room energy management function
- Operating temperature: -20 to +50 °C
- Use: indoor or outdoor
- Connection to bus line via KNX terminal
- Degree of protection IP65
- Dimensions: rectangular 51 x 92 x 27 mm (LxHxW)


Smart Building
Power Supply
BX-B640
BX-B320
BX-B160
SYSTEM COMPONENTS

Power Supply
BX-B640
BX-B320
BX-B160

DESCRIPTION

BX-B640/B320/B160 is a KNX power supply unit with 640mA/320mA/160mA current output.
It is ideal for powering networks with up to 64 devices.
It features Soft Start, a gradual switch-on mechanism that allows the loading of the capacities present in the system without causing drops in the output voltage and protects the system from malfunctions caused by sudden public network blackouts or inefficiencies.

TECHNICAL DATA

- Input Voltage: 110 ÷ 230 V ac, 50/60 Hz
- Power Consumption: 20W - 15W - 10W
- Fuse: 2 A rapid
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 2,5 mm^2
- Degree of protection: IP20
- Dimensions: 4 DIN modules

Power Supply
BX-PW15
General purpose 12V/15W

DESCRIPTION

Device for supplying power to the Touch Panels, particularly suitable for the Kairos 24, Kairos 27 and Theo 10 models.
The power supply unit can operate with input voltages between 100 and 240 V ac.

TECHNICAL DATA

- Input voltage: 100 ÷ 240 V ac, 50/60 Hz
- Output voltage: 12 V dc
- Maximum power: 15 W
- Insulation: Class II
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Humidity: max. 93% (non-condensing)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 2,5 mm^2
- Degree of protection: IP30

Power supplies
BX-PS1280
BX-PS640

DESCRIPTION

BX-PS1280 and BX-PS640 are KNX power supplies with 1280 mA and 640 mA current output, high efficiency and small dimensions. They are equipped with protections against overload/short circuit and output overvoltages. The devices have a KNX output with choke and an additional output for auxiliary power supply. Diagnostic LEDs indicate the status of normal operation, the conditions of overload and overvoltage, and the RESET status.

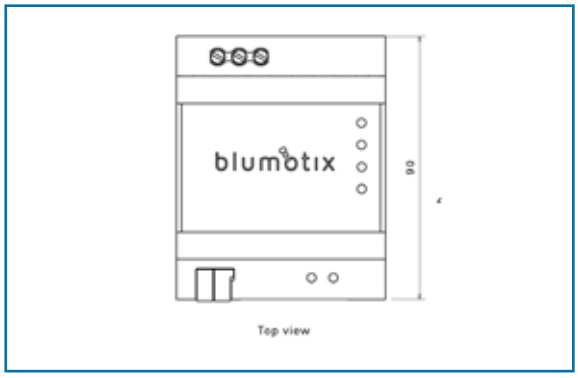
TECHNICAL DATA BX-PS1280

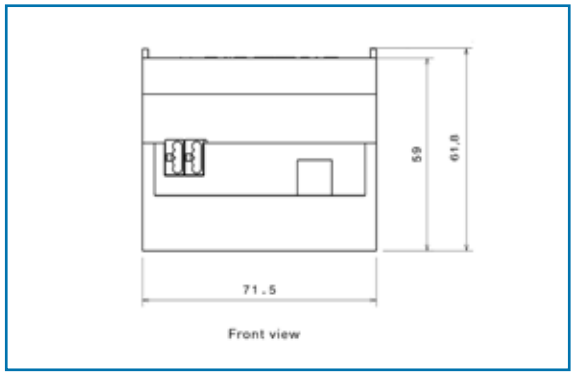
- Input voltage: 200 ÷ 240 V AC, 50/60 Hz
- Input current: 0,5 A at 230 V AC
- Protection: resettable 2A delayed fuse
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminal, max. cable section 2,5 mm^2
- Degree of protection: IP20
- Dimensions: 4 DIN modules

TECHNICAL DATA BX-PS640

- Input voltage: 100 ÷ 240 V AC, 50/60 Hz
- Input current: 0,25 A at 230 V AC
- Protection: resettable 2A delayed fuse
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminal, max. cable section 2,5 mm^2
- Degree of protection: IP20
- Dimensions: 4 DIN modules

DIMENSIONS





IP/KNX secure interface
BX-IP02

DESCRIPTION

Device for interfacing between a KNX line and an IP (Internet Protocol).
BX-IP02 is the KNX Secure interface that is ideal for programming the system with ETS via an active network connection on your PC (EIBnet/IP Tunneling standard). It supports the new KNX Secure technology. The interface IP address can be assigned manually via ETS or automatically if a DHCP service is active on the network.
BX-IP02 has an RJ45 connector to support IP connection, a standard KNX connector (2 x 0.8 mm) for connection to the bus line and a third connector (2 x 0.8 mm) for auxiliary power supply (12-24 V dc).

TECHNICAL DATA

- Ethernet card: 10 Mb
- Protocols supported: ARP - ICMP - IGMP - UDP/ IP - DHCP- EIBnet/IP in accordance with KNX: Core,Tunneling, Device Management.
- Operating temperature: -5 ÷ +45 °C (internal use)

Line coupler
BX-LC02

DESCRIPTION

BX-LC02 is an area/line coupler that interconnects two lines of KNX data transmission ensuring galvanic decoupling between them. Each bus line in a KNX installation can operate independently from the other areas/ lines.
BX-LC02 supports KNX Data Secure communication (KNX Data Secure telegrams can be processed and filtered according to settings).

USB interface
BX-DINUSB

DESCRIPTION

BX-DINUSB is a DIN rail-mounted KNX interface for bidirectional KNX / USB communication, that allows to connect to a bus line with your own PC. The USB connection is galvanically isolated from the KNX bus. Ideal for use with ETS software, either in programming or for data monitoring sessions.

TECHNICAL DATA

- PC connection to KNX systems.
- Addressing, programming and diagnosing of KNX devices.
- Compatible with KNX Data Secure products.
- Fast applications download (support Long Frame from ETS5).
- Compatible with ETS4, ETS5 (and higher).

USB Interface
BX-USB

DESCRIPTION

BX-USB is a KNX bi-directional KNX / USB communication interface that allows you to connect to a bus line with your PC. The USB connection is galvanically isolated from the KNX bus.
Ideal for use with ETS software, both for programming and data monitoring sessions. Compatible with the KNX Association Falcon driver.

TECHNICAL DATA

- Compatibility: ETS3 and later – Falcon
- Power consumption: USB 200mw - KNX 100mw
- Dimensions (L1-L2-H): 90-91-12 mm

Terminals
BX-SP01

TECHNICAL DATA

- Number of contacts: 8
- Number of potentials: 2
- Min wire dimensions: 22AWG
- Max wire dimensions: 18AWG
- Rated voltage: 100VAC
- Maximum current: 6A

DESCRIPTION

BX-SP01 is a box of 50 KNX connectors. These are connectors for applications that comply with the European Installation Bus (EIB) standard and enable communication between the device and the KNX bus.

KNX cable
BX-SP05/06

THE CABLE IS COMPOSED OF:

1. Conductor
2. Insulation
3. Separator
4. Shielding
5. Drainage
6. Sheath

DESCRIPTION

BX-SP05/06 is a 100 m skein of 4/2-pole KNX cable. The cable is made of 2 twisted pairs with 0.8mm cross section, shielded with Al/Pet tape, fire retardant and low halogen emission.

TECHNICAL DATA

- Cable 2 x 2 x 0,80 mm^2
- Conductor: annealed copper (cl. 1)
- Insulation: PVC quality R2
- Separator: Pet tape
- Drainage: tinned copper annealed (formation 1 x 0,40 mm)
- Shielding: Al/Pet tape
- Sheath: PVC quality RZ
- Sheath colour: RAL 6018
- Reduced halogen emission: <22%
- Capacity according to: <100 pF/m a 10 KHz
- Inductance: <0,85 uH/m a 10 KHz
- Rated voltage: 300 V
- Maximum voltage: 330 V
- Test voltage: 4000 V
- Temp. Max exercise: 70 °C
- Short-circuit temp. 160 °C
- Temp. Installation: 0 °C
- Radius of curvature: 53 mm

Gateway
BX-DALIPLUS

DESCRIPTION

The BX-DALIPLUS gateway is a completely new device that allows a KNX line to be merged with a DALI line.
BX-DALIPLUS operates as a "master" on the DALI and features the traditional 16-18 V dc output on terminals named D+ and D- and a maximum current limitation to 250 mA. It allows the control and regulation of up to 64 DALI devices, managed individually or in groups up to a maximum of 16. The device can also manage up to 16 scenarios.
Error messages of the individual reactor and each lamp can be transmitted to the KNX via appropriate communication objects.
It is possible to control individual DALI devices even if they are assigned to different groups. A DALI device can be part of several groups. It has a post-installation function for the modification of installations already in service.
It also includes advanced DALI driver address programming functions.
It is possible to configure the device via ETS or via the DCA interface which can be downloaded from the KNX or Blumotix website.

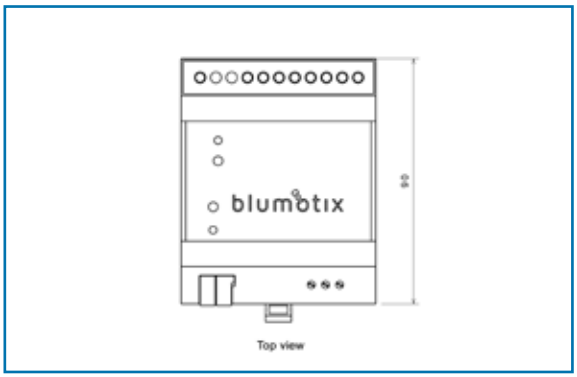
TECHNICAL DATA

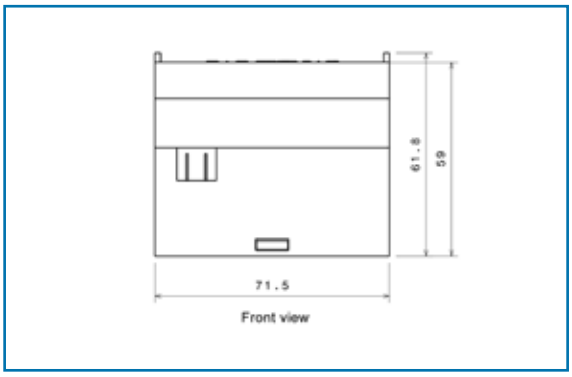
- Supply voltage: 100 ÷ 240 V ac, 50/60 Hz
- Outputs: DALI D+, D-, 16 ÷ 18 V dc, 250 mA max, short-circuit proof
- Interfaces: KNX, DALI
- Single master control device type, Category I
- Compatible with DT6 LED lamp drivers
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to KNX bus: 2-pole plug-in terminal d=0.8 mm
- Electrical connections: power supply and DALI screw terminal, 1,5 ÷ 2,5 mm^2
- Degree of protection: IP 20
- Dimensions: 4 DIN modules

DCA

Graphic interface app for programming, compatible with ETS software.

DIMENSIONS





Universal Dimmer
BX-DUNIV

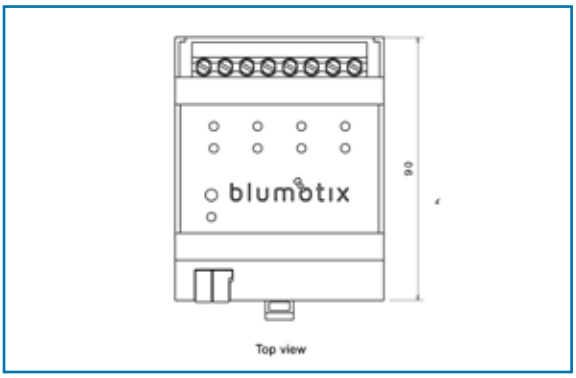
DESCRIPTION

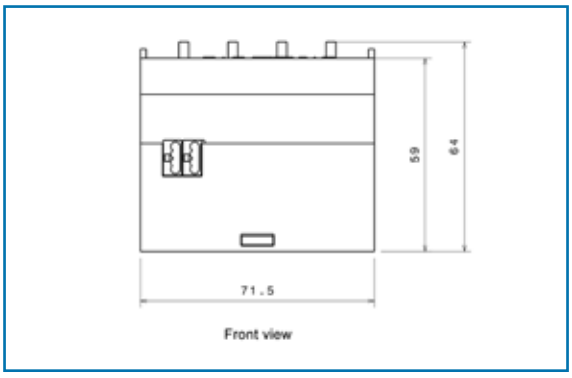
Universal KNX Blumotix dimmer actuator (RLC, LED, CFL) with 2 channels. BX-DUNIV is the dimmer capable of delivering up to 300 W at 230 V ac on each of the two available lines. The dimming curves can be configured to suit the type of light source used. Possibility of driving the lamps in two modes: "LE" Leading Edge, with start phase cut, and "TE" Trailing Edge, with end phase cut. The front panel features manual controls for adjusting the outputs.
BX-DUNIV is able to achieve low brightness, even with modern fluorescent lamps or LEDs, stabilises the brightness of energy-saving sources and solves unwanted side effects: buzzing, flashing, unstable operation.

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power Supply 29 V dc KNX bus
- KNX section with bus power supply: 10 mA
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Humidity: max. 93% (non-condensing)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 4 mm^2
- Degree of protection: IP20
- Dimensions: 4 DIN modules

DIMENSIONS





Constant voltage dimmer
BX-DM04

DESCRIPTION

KNX Blumotix 4-channel dimmer actuator for dimming White and RGB LED strips (common anode connection) operating at 12 and 24 V ac.
It provides a maximum current of 7.8 A per channel corresponding to a 40 metre RGB LED strip (14.4 W/m at 24 V). BX-DM04 regulates brightness by modulating the output voltage.

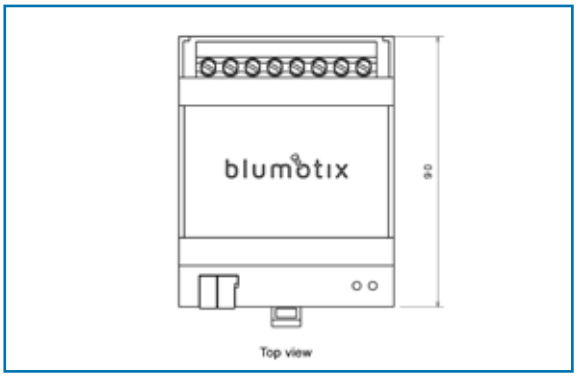
TECHNICAL DATA

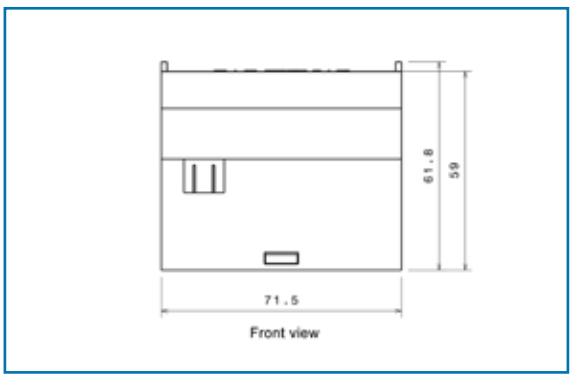
- Auxiliary power supply 12 ÷ 24 V dc, max 750 W
- Output voltage: PWM (Vout max = Vin)
- Output current: max 7.8 A for channel
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Humidity: max. 93% (non-condensing)
- Degree of protection: IP20
- Dimensions: 4 DIN modules

KNX FUNCTIONS

- LED intensity adjustment
- Modulation output voltage of the power supply
- 4 independent channels

DIMENSIONS





Constant current dimmer
BX-DM03

DESCRIPTION

BX-DM03, KNX Blumotix actuator, common anode dimmer for LED lamps with current control.
It has 4 channels that can be programmed to work independently with white lamps or can be synchronised to control the colours of an RGB/RGBW lamp.
Its main feature is that it works with an external power supply unit that can be chosen according to the power to be applied.
Each channel can be programmed via dip switches to deliver the appropriate current for the type of lamp installed according to the pre-set standard values: 350 mA, 700 mA and 1000 mA, with 12 or 24 or 48 V dc power supply units.

TECHNICAL DATA

- Input voltage: up to 48 V dc
- Maximum output current: 350 mA, 700 mA, 1000 mA
- Maximum output voltage modulated as a function of input voltage
- Number of outputs: 4
- Power consumption: up to 200 W
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Dimensions: 4 DIN modules

KNX FUNCTIONS

- Individually programmable channels
- Brightness adjustment with 4-bit objects (DT3 incremental method) and 1 Byte objects (DT5 brightness percentage)
- On and off function with 1-bit objects (DT1 on off)
- Saving the brightness value when the channel is switched off
- Notification of status
- RGBW operating mode with synchronized channels
- Timed management of power-on, power-off and transition
- 24 programmable scenarios and execution in sequence of colored transitions exploiting the order of the scenarios in sequential or causal way.

Contact interfaces
8 channels with Led
BX-T8XIOL

NEW

DESCRIPTION

BX-T8XIOL is a KNX pushbutton interface device with 8 channels and low voltage output management that can drive typically LEDs. It differs from other interfaces because the 8 channels can be freely programmed as inputs or outputs.
On the 15 cm long cable there are 4 twisted pairs that distinguish the first 4 channels and the remaining 4 share the common one.
The 8 outputs management is completely free between the choice of input or output in low voltage and it allows a very flexible configuration.

KNX FUNCTIONS

- Switching closing/opening contact
- Switching short/long pressure
- Fronts
- Opening and closing of shutters/blinds
- Dimmer adjustment
- Scenarios
- Sequential sending
- Forced sending
- Multiaction
- Cyclic sending states
- Cyclic commands request
- Logical functions
- Presence management in "Virtual Badge" rooms

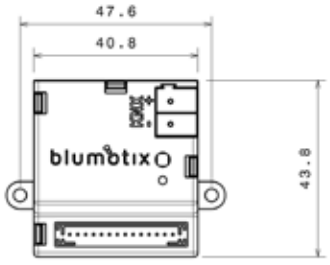
TECHNICAL DATA

- Power Supply 29 V dc SELV via KNX bus
- Power consumption < 25 W
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Maximum cable length: 10 mt
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm
- Input signals (dry contact): 3.3Vdc
- Output signals (3mm led): 3.3Vdc - 1mA

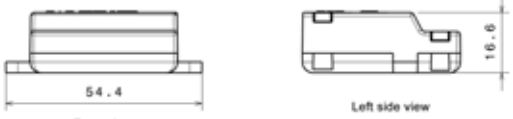
OUTPUTS

- Switching
- Alarms
- 2 command modes
- Flashing function
- Send cyclic states
- Request cyclic commands

DIMENSIONS



Top view

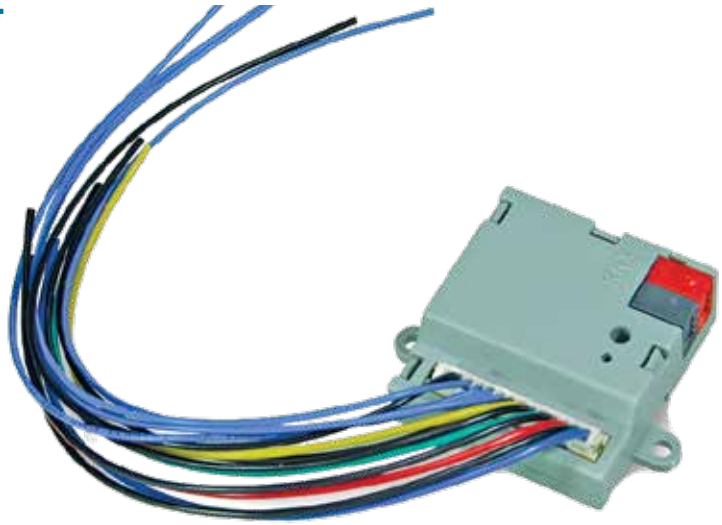


Front view

Left side view

Contact interfaces 2 and 4 channels with LEDs

BX-T2XIOL
BX-T4XIOL



DESCRIPTION

BX-T2XIOL and BX-T4XIOL are 2-channel and 4-channel pushbutton and output management interfaces.
What makes them different from the other interfaces is the signalling LED.
On the 15 cm long cable there are 2 or 4 twisted pairs for direct connection to the buttons.
The output management is completely independent from the inputs and allows a very flexible configuration.

KNX FUNCTIONS

- Power-on utilities
- Opening and closing of shutters/blinds
- Scenarios
- Setting of a light source
- Cyclic sending of values
- Sending forcing and blocking values
- Multi-action commands

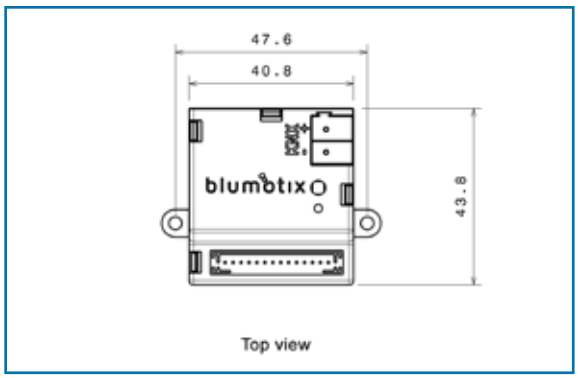
TECHNICAL DATA

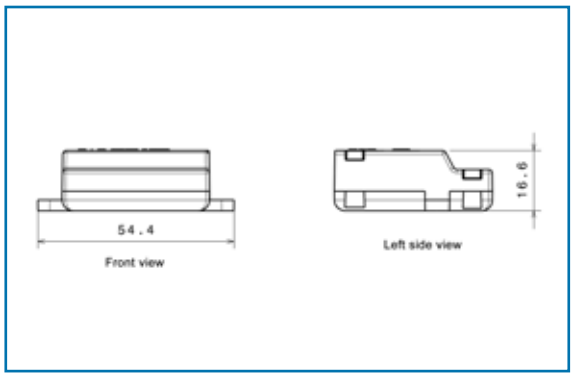
- Power Supply 29 V dc KNX bus
- Power consumption: <0,25 W
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Maximum cable length: 10 mt
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm

OUTPUTS

- On-off state
- Alarm status 1
- Alarm status 2
- Led control with 2 1-bit communication objects
- Fixed and variable frequency flashing

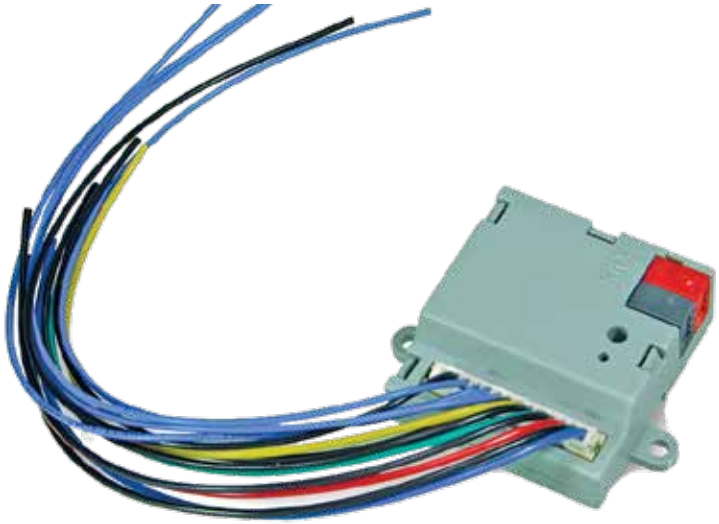
DIMENSIONS





Contact interfaces 2 and 4 channels

BX-2XIO
BX-4XIO



DESCRIPTION

BX-2XIOL and BX-4XIOL are 2-channel and 4-channel pushbutton and output management interfaces.
On the 15 cm long cable there are 2 or 4 twisted pairs for direct connection to the buttons.
The output management is completely independent from the inputs and allows a very flexible configuration.

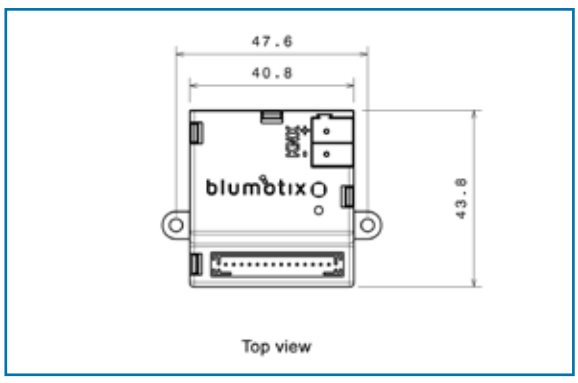
KNX FUNCTIONS

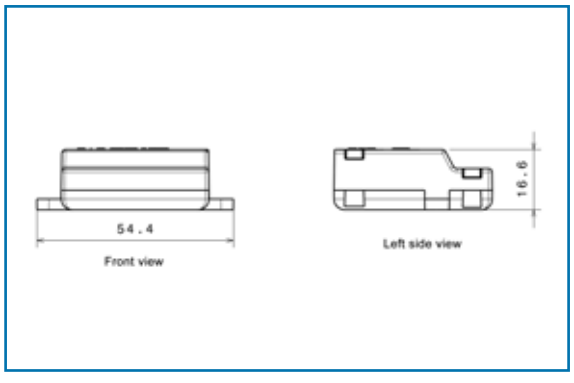
- Power-on utilities
- Opening and closing of shutters/blinds
- Scenarios
- Dimmer adjustment
- Long press command

TECHNICAL DATA

- Power Supply 29 V dc SELV KNX bus
- Power consumption: <0,25 W
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Maximum cable length: 10 mt
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm

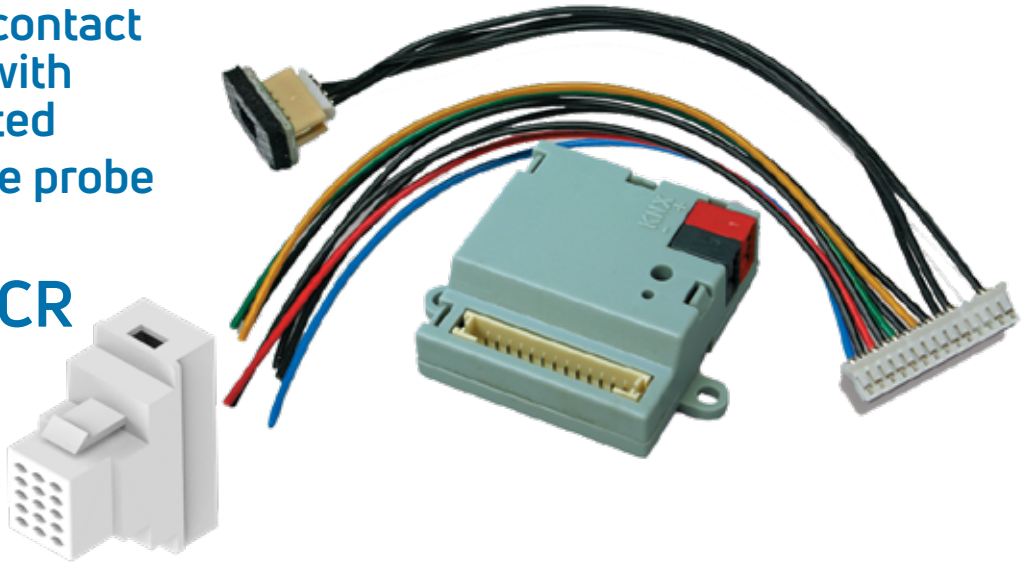
DIMENSIONS





4-channel contact interfaces with flushmounted temperature probe

BX-TE
BX-TE-SCR



DESCRIPTION

BX-TE is a KNX pushbutton interface device with 4 inputs that converts a traditional push-button panel into a KNX source. It has no local control commands, and therefore requires a supervisory device in the installation for setting and displaying, such as a Blumotix Touch Panel or an iOS or Android Smartphone with KRIM, an application developed by Blumotix, installed. The temperature probe provides an accurate reading of the room temperature and makes the necessary adjustments for conditioning control. It is small in size and can be installed on the back of the hole covers of the traditional civil series, suitably perforated to allow correct ambient temperature measurement.

N.B. BX-TE-SCR differs from BX-TE in that it provides the Keystone attachment accessory included. The accessory is not sold individually.

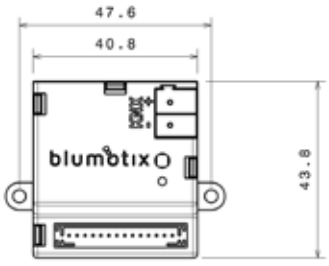
KNX FUNCTIONS

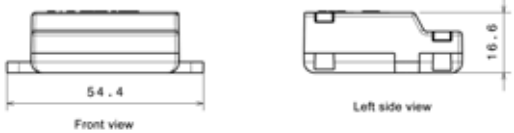
- Power-on utilities
- Opening and closing of shutters/blinds
- Setting of a light source
- Scenarios
- Very precise temperature reading thanks to digital temperature probe
- Climate control: set-point setting; summer/winter mode selection; fancoil/velux function; PID control; temperature control

TECHNICAL DATA

- Power supply: via KNX bus 29 V dc SELV
- Power consumption: 0,25 W
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Maximum length of input cables and probe: 10 m
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm

DIMENSIONS





4-channel contact interfaces with flushmounted temperature and humidity probe

BX-TU
BX-TU-SCR

DESCRIPTION

BX-TU is a KNX pushbutton interface device with 4 inputs that converts a traditional pushbutton panel into a KNX source. It does not have local control commands, and therefore requires a supervisory device in the installation for setting and displaying, such as a Blumotix Touch Panel or an iOS or Android Smartphone with KRIM, an application developed by Blumotix, installed. The temperature probe provides an accurate ambient temperature reading and makes the necessary adjustments for climate control. BX-TU is equipped with an extremely sophisticated solid state digital temperature and humidity probe, capable of measuring temperature between -40 °C and +125 °C, and relative humidity between 0% and 100%. and does not require any calibration procedure.
It has reduced dimensions and can be installed on the back of the hole covers of the traditional civil series, suitably perforated to allow correct ambient temperature measurement. The version with humidity probe measures the dew point temperature.

N.B. BX-TU-SCR differs from BX-TU in that it provides the Keystone attachment accessory included. The accessory is not sold individually.

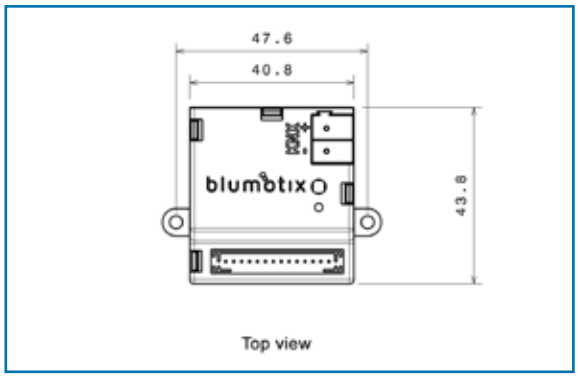
KNX FUNCTIONS

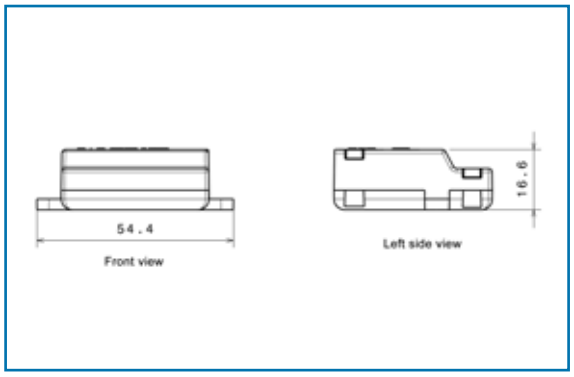
- Power-on utilities
- Opening and closing of shutters/blinds
- Setting of a light source
- Scenarios
- Very precise temperature reading thanks to digital temperature probe
- Climate control: set-point setting; summer/winter mode selection; fancoil/velux function; PID control; humidity level control.

TECHNICAL DATA

- Power supply: KNX bus, 29 V dc SELV
- Power consumption 0,25 W
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Maximum length of input cables and probe: 10m
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm

DIMENSIONS





Flush-mounted 4-channel contact interfaces with temperature and humidity probe and CO2

BX-TUC2
BX-TUC2-SCR

DESCRIPTION

BX-TUC2/BX-TUC2-SCR is a KNX push-button interface device that can manage up to 6 channels freely configurable as inputs (contacts) or outputs (typically LEDs) and a temperature, humidity and CO2 probe.
The management of its 6 channels is completely free between the choice of input or output in low voltage and it allows a very flexible configuration. It also features a thermostat section without local controls, which can be managed via a remote supervision device. It is equipped with a probe that provides an accurate room temperature reading and provides to climate control adjustment. The humidity probe reports the value in % with also the measurement of the dew point. Parameters allow the management of alarm logic based on thresholds of both humidity and dew temperature. The carbon dioxide (CO2) value is also measured using a digital type sensor which does not require calibration. In addition to CO2, measurements of volatile organic compounds (VOC) and indoor air quality (IAQ) are available. The parameterization of the device allows the control of equipment intended for air quality improvement (mechanical ventilations).

KNX FUNCTIONS

- Switching closing/opening contact
- Switching short/long pressure
- Fronts
- Opening and closing of shutters/blinds
- Dimmer adjustment
- Scenarios
- Sequential sending
- Forced sending
- Multiaction
- Sending cyclic states
- Cyclic request commands
- Highly accurate temperature, humidity and CO2 readings thanks to digital probe; control logic for managing mechanical ventilation with thresholds is included
- Air conditioning control: set- point setting; summer/winter mode selection; fancoil function; PID control; humidity level control; air quality control
- Logical functions
- Presence management in "Virtual Badge" rooms

OUTPUTS

- Switching
- Alarms
- 2 command modes
- Flashing function
- Send cyclic states
- Request cyclic commands

DIMENSIONS **See Page 64**

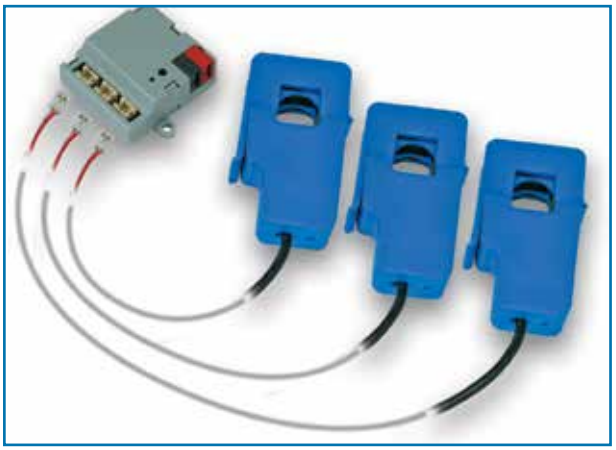
TECHNICAL DATA

- Power supply: via KNX bus, 29 V dc SELV
- Power consumption: <0,25 W
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm
- Maximum cable length for inputs/outputs (contacts/leds): 10 mt
- Input signals (dry contact): 3.3Vdc
- Output signals (3mm led): 3.3Vdc - 1mA
- Integrated temperature, relative humidity and CO2 sensors
- Maximum length of probe cables T, U, CO2: 1 mt
- Temperature measurement range: -40°C to +125°C
- Accuracy: Typ. +/-0.2°C from +5°C to +60°C, up to max +/-0.8°C from -40°C to +5°C and from +60°C to +125°C
- Relative humidity measurement range: 0 to 100 %RH
- Accuracy: Typ. +/-2%RH from 20%RH to 80%RH, up to max. 3.5%RH from 0%RH to 20%RH and from 80%RH to 100%RH
- CO2 measurement range (estimated CO2): from 400ppm to 5000ppm
  Accuracy: +/-20% for medium/high CO2 level, +/- 25% for medium/low CO2 level
- TVOC measurement range according to UBA: 0ppm to 10ppm
- Accuracy: +/-10%
- Measurement range for IAQ in accordance with UBA: 0 to 10
  Accuracy: +/-10%

N.B. BX-TUC2-SCR differs from BX-TUC2 in that it provides the Keystone attachment accessory included. The accessory is not sold individually.

Current meter BX-ES03 with optional current clamp

BX-TA01



DESCRIPTION

The BX-ES03 is a KNX device for measuring alternating electric current. Specifically, it measures the alternating current consumed by a power line. The device includes an intelligent load control logic.
The meter has 3 analogue inputs for receiving independent current measurements from the BX-TA01 current clamps.The 3 inputs are independently programmable.
BX-TA01 allows induction measurement of the consumption of a power line without the need to interrupt the conductor. This is made possible by the snap-on mechanism whereby cables up to 13 mm2 in diameter can be attached. The clamp has a sensitivity of 60 A/V and enables the instrument to measure electrical currents up to a maximum of 150 A.

KNX FUNCTIONS

- Energy saving: by enabling thresholds capable of notifying events on the KNX bus
- Load control: detection of overloads and tripping mechanisms to limit consumption.
- Power measurement
- Energy metering
- External probe input

TECHNICAL DATA

- Power supply: KNX bus, 29 V dc SELV
- Integrated load control (up to 8)
- Clamp sensitivity: 60 A/V
- Maximum detectable power: 10,7 kW (230 V ac)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Degree of protection: IP20
- Dimensions: 54 x 44 x 17 mm

Presence/movement sensors and detectors

The range of Blumotix motion and presence sensors makes it possible to automate the control of bus functions, such as room lighting or air-conditioning. All versions contain a KNX communication module within. The presence sensors are connected to the signal-bus cable. The configuration and commissioning of the devices is conducted using the ETS software.

Radio frequency motion detector

BX-DET01

DESCRIPTION

Concealed motion detector for installation above false ceilings or recessed. It can also be installed in masonry walls, wood, plasterboard etc. It allows a wide and easy parameterization by ETS, being suitable for lighting, people detection and anti-break in functions. Radio frequency technology.

TECHNICAL DATA

- Detection area 2,5 m from the floor: Guaranteed 6x3 m/Maximum: 12x6 m.
- Power: 29 V dc from auxiliary power supply or from KNX BUS
- Auxiliary power supply of 12 ÷ 30 V dc (recommended), 35 mA from the auxiliary power supply, 1 mA from KNX BUS
- Safety low-voltage SELV, direct current 24 V
- Consumption (depending on the source)
- BUS KNX (Optional) 35mA from BUS KNX
- Mounting: on false ceilings or recessed in plasterboard and brick walls
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Type of protection: IP20
- Dimensions: 25 x 45 x 65 mm
- Weight: 115 g

Motion detectors

DESCRIPTION

Presence and brightness KNX detector with infrared technology, in semi-recessed version, which can also be ceiling mounted with base code BX-93307. Suitable for detection in offices, meeting rooms, schools, hotel rooms and entirely made of white polycarbonate. Equipped with a special optical system suitable for detecting even the smallest movements, with 360° detection area and installable at 2 m / 5 m / 2.5 m height. Constant brightness adjustment and control outputs for HVAC, operating temperature: -5 ÷ +45 °C (internal use).

BX-93511

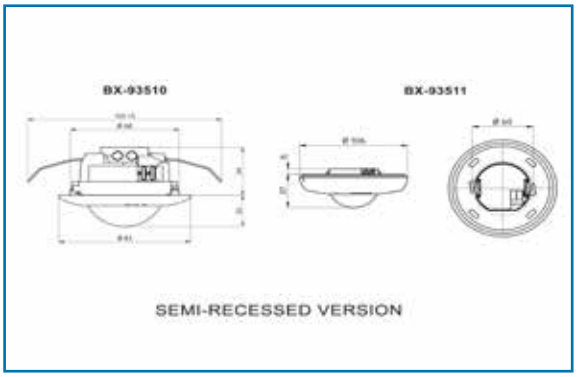
BX-93510

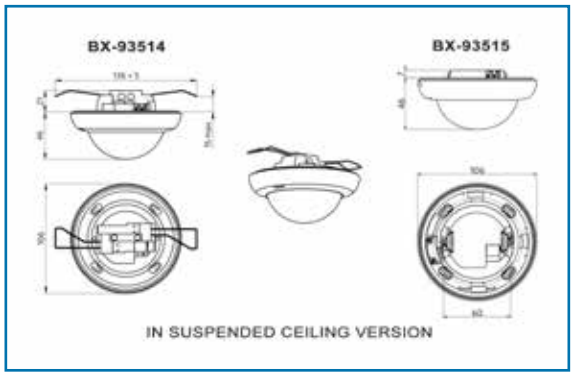
DESCRIPTION

Presence and brightness KNX detector with infrared technology, in suspended ceiling version, for large detection areas, entirely made of white polycarbonate. Equipped with a special optical system suitable for detecting even the smallest movements, with 360° detection area and installable at 2 m / 10 m / 2.5 m height. Constant brightness adjustment and control outputs for HVAC, operating temperature: -5 ÷ +45 °C (internal use).

BX-93514

BX-93515





DESCRIPTION

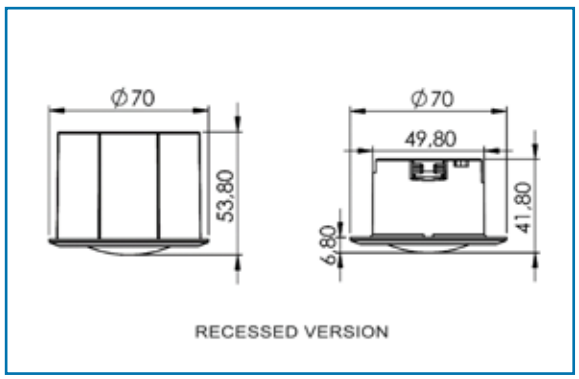
BX-514-01 and BX-514-03 are KNX presence sensors. Specifically, the BX-514-01 finds applications for medium heights, while the BX-514-03 for wide-range applications. They are both multifunctional devices suitable for indoor use and they include for each an independent presence channel that can be used with constant light switch functionality and constant light controller functionality. There are an independent on-board actuation channel and 2 digital inputs. The presence channels are independent and can be configured in automatic or semiautomatic mode according to the user's needs. They also support the functionality of sensor without presence channels for simple uses. It includes a temperature probe for measuring it with functionality of thermostatting, all available via bus, and it also includes 5 independent logic blocks to create logical associations, they can be associated with "AND", "OR" and "XOR" logic*. The conditions of the logic inputs contain presence, brightness, motion and external conditions. The sensor can also be configured as a master or slave.

BX-514-01 - BX-514-03

NEW

TECHNICAL DATA

- Passive infrared sensor technology
- Power supply: via KNX bus, 29 V dc SELV
- Mounting height 2.5 m - 4 m
- Bus current consumption: 5 mA
- Brightness detection 1-1200 lux
- Inputs: 2 digital inputs
- Output: 1 analog input
- Maximum air humidity % 90 RH
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Protection type:
- Flush mounting: IP 20
- Surface mounting: IP 44
- Operating temperature: -5 ÷ +45 °C (internal use)
- Storage (-10°C...60°C)
- Dimensions: 70 × 41.8 mm (Φ x H)



KNX FUNCTIONS

It supports presence detection, brightness detection, motion detection, indoor and outdoor temperature detection. The presence detection, based on passive infrared sensor, has 1 channel independently configurable with constant light switch and constant light control application. There are 5 logic blocks available that can be set in the AND/OR/XOR logic relationship. Each block can control 5 objects output.

External devices can be connected through the 2 digital inputs and 1 analog input. Switching sensor, switching/dimming sensor, shutter sensor, value/forced operation, scene control, RGB color control can be carried out with the buttons connected to the inputs.

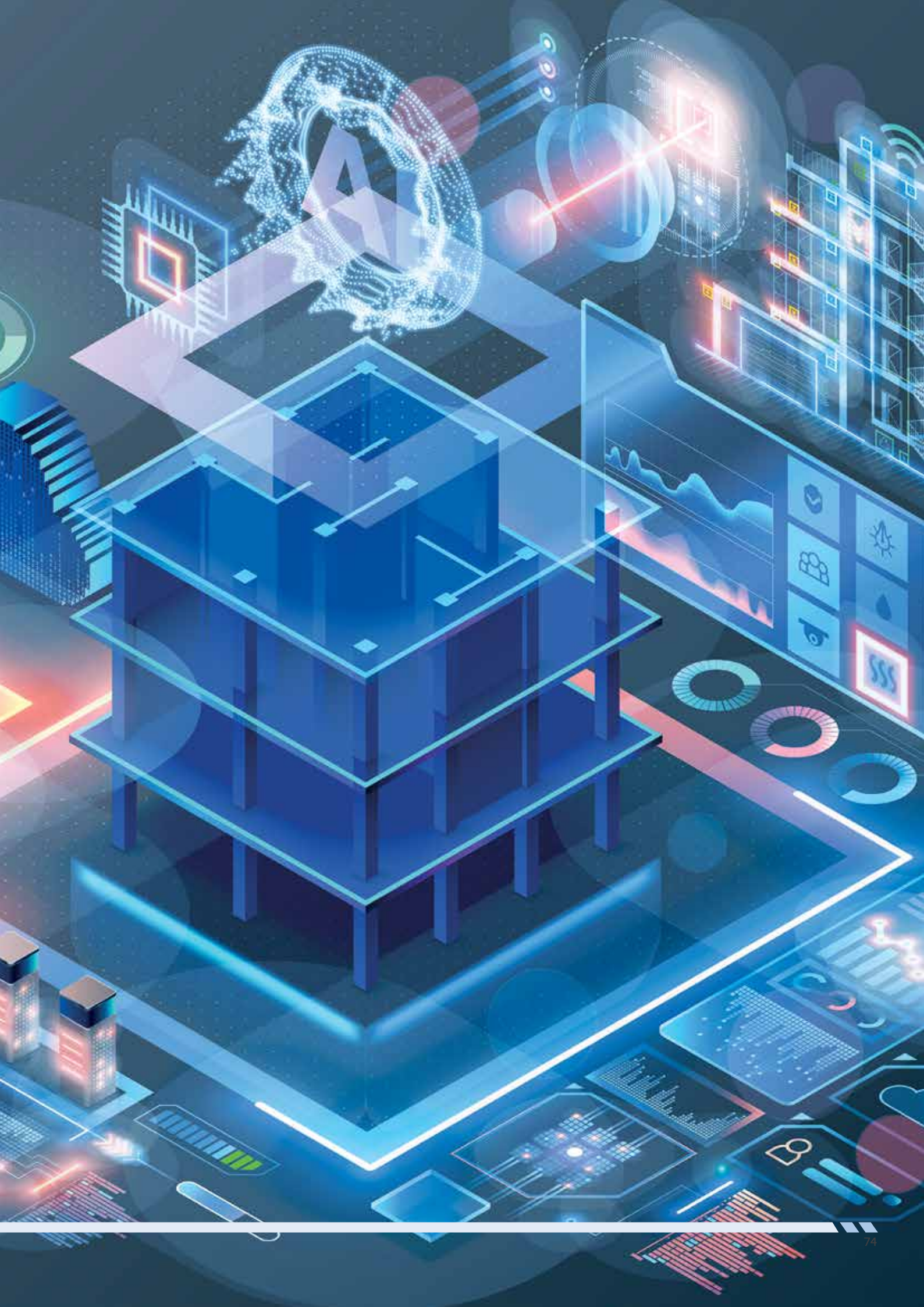
Temperature measurement by built-in sensor with the possibility of sending the value to change and periodically to the bus for room temperature monitoring.

The device also integrates Virtual Badge.

The presence sensor takes over the distances for people sitting, approaching and crossing detection; the fields are of different sizes. The detection range of the detector varies depending on the mounting height. With the constant light controller function: the detector maintains brightness at a constant value and dims lights to the relative intensity, according to the surrounding brightness.

Smart Building

ACTUATORS



8-channel and 12-channel switching actuators

BX-ACT08
BX-ACT12

DESCRIPTION

BX-ACT08 and BX-ACT12 are 8-channel and 12-channel DIN rail-mounted load actuators for independent switching of loads by means of closing contacts. The 230 V ac switching output can be controlled by push buttons on the front. A green LED indicates the status of the channel. It features 16 A bi-stable relays with contacts connected directly to the terminals, without phase sharing. The screw terminals can accept cable sections of up to 5 mm2. The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps.

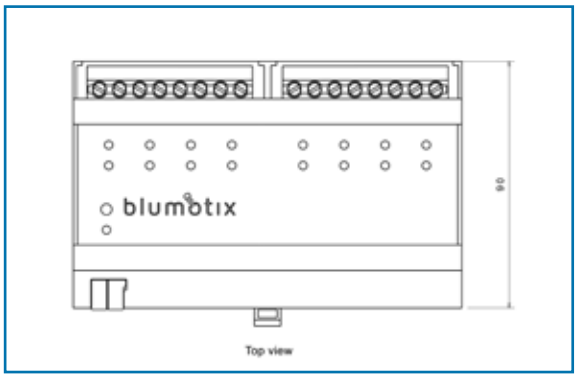
KNX FUNCTIONS

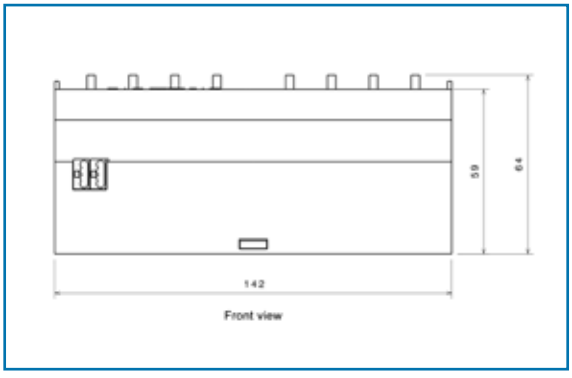
- Switching function
- Staircase light function
- Scenario function
- Logic functions: 16 generic logic operators are available to be assigned to the desired channels
- Channel status feedback

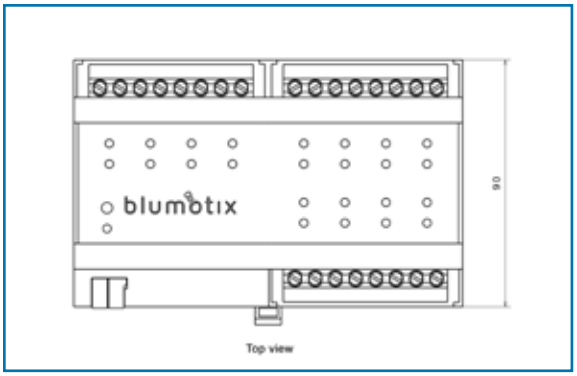
TECHNICAL DATA

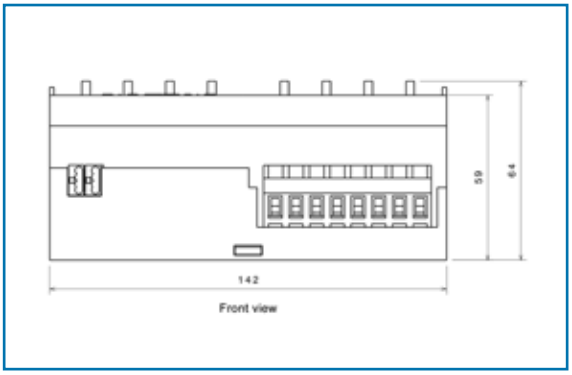
- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Current consumption by KNX bus: 12 mA
- Rated current of contacts: 16 A
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 8 DIN modules

DIMENSIONS









4-channel switching actuator

BX-ACT04

DESCRIPTION

The BX-ACT04 is a 4-channel load actuator for DIN rail mounting, for independent switching of loads via the closing contacts. The 230 V ac switching output can be controlled via push buttons on the front. A green LED indicates the status of the channel. It features 16A bi-stable relays with contacts connected directly to the terminals, without phase sharing.
The screw terminals can accommodate cable sections up to 5 mm2.
The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads typical of fluorescent or neon lamps.

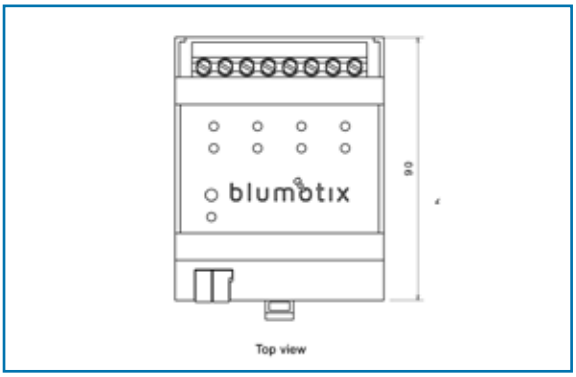
KNX FUNCTIONS

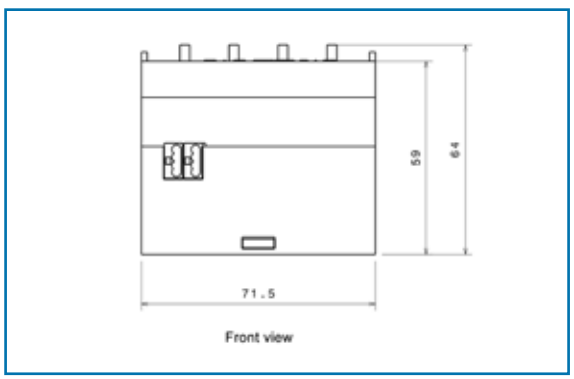
- Switching function
- Staircase light function
- Scenario function
- Logic functions: 16 generic logic operators are available to be assigned to the desired channels
- Channel status feedback

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Current consumption by KNX bus: 12 mA
- Rated current of contacts: 16 A
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm^2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 4 DIN modules

DIMENSIONS





4-channel and 6-channel roller shutter/venetian blind actuators

BX-BLD4
BX-BLD6

DESCRIPTION

BX-BLD4 and BX-BLD6 are actuators for 4/6 roller shutters with relay outputs 16 A 230 V ac, 50/60 Hz, KNX standard, DIN rail installation (60715 TH35); it occupies 4 x 17.5 mm modules. The roller shutter / venetian blind actuator controls independent 230 V ac drives for the control and operation of roller shutters, venetian blinds, roller blinds and blackout blinds. The devices are powered by the bus and do not require an external auxiliary voltage; the output contacts are interlocked and potential-free in order to protect the drives from damage.

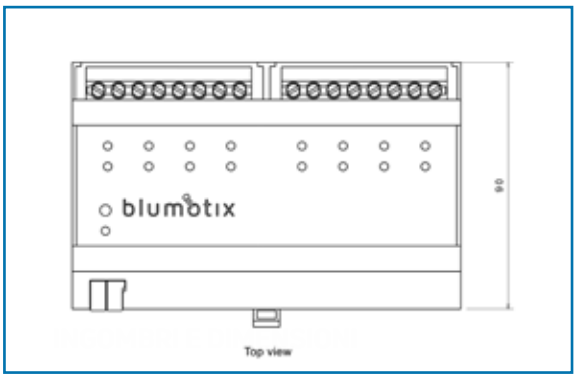
KNX FUNCTIONS

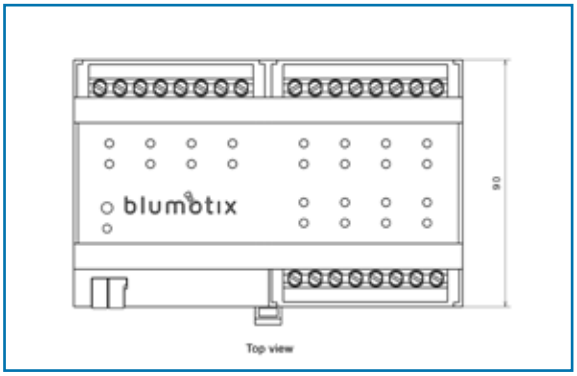
- Full up and down run
- Partial run with stop in position from 0 to 100% of the run length
- Position setting (change of preset position during operation)
- Slat tilt adjustment (for blinds)
- Insertion into scenarios
- Automatic control for protection from direct sunlight
- Automatic control for protection against weather conditions (rain, wind, frost)

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- 6 independent outputs
- Rated current IN: 16 A
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 8 DIN modules

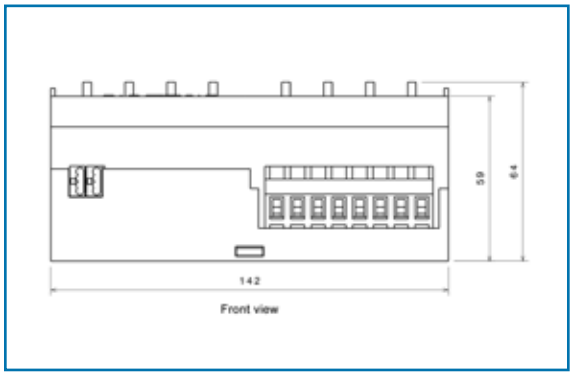
DIMENSIONS





CONNECTIONS

The connection to the bus and to the shutter control devices is made directly via the terminals on the front of the actuator.



2-channel roller shutter/venetian blind actuator

BX-BLD2

DESCRIPTION

The BX-BLD2 is an actuator for 2 roller shutters with relay outputs 16 A 230 V ac, 50/60 Hz, KNX standard, DIN rail installation (60715 TH35); it occupies 4 x 17.5 mm modules. The roller shutter / venetian blind actuator controls independent 230 V ac drives for the control and operation of roller shutters, venetian blinds, roller blinds and blackout blinds. The devices are powered by the bus and do not require an external auxiliary voltage; the output contacts are interlocked and potential-free in order to protect the drives from damage.

KNX FUNCTIONS

- Full up and down run
- Partial run with stop in position from 0 to 100% of the run length
- Position setting (change of preset position during operation)
- Slat tilt adjustment (for blinds)
- Insertion into scenarios
- Automatic control for protection from direct sunlight
- Automatic control for protection against weather conditions (rain, wind, frost)

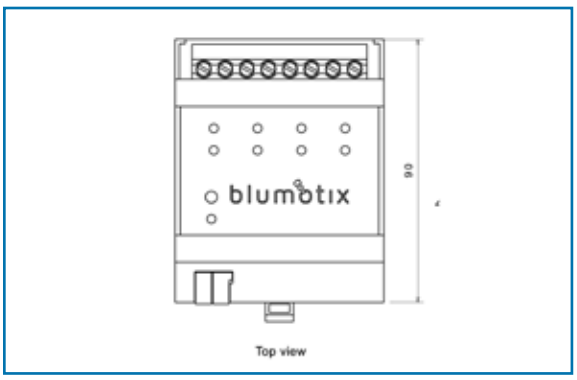
CONNECTIONS

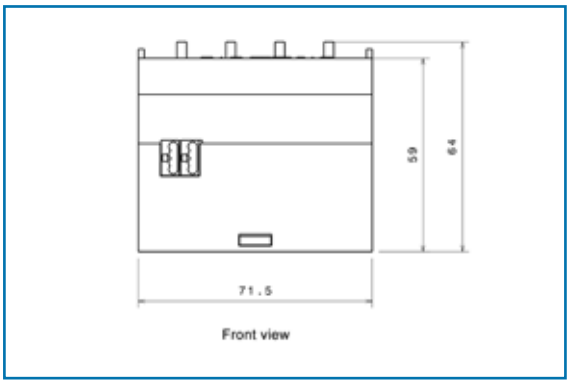
The connection to the bus and to the shutter control devices is made directly via the terminals on the front of the actuator.

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- 2 independent outputs
- Rated current IN: 16 A
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm^2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 4 DIN modules

DIMENSIONS





24-channel multifunctional actuator BX-RO24

NEW

DESCRIPTION

The BX-RO24 is a 24-channel DIN-rail-mounted combination actuator for independent switching of loads via the closing contacts. The 230 V ac switching output can be controlled by the push buttons on the front.
A green LED indicates the status of the channel. It is equipped with 16 A bistable relays with contacts connected directly to the terminals, without phase sharing. The screw terminals can accept cable sections up to 5 mm2.
The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps.

The device provides the switching functions with status notification, lockout command, forcing, timings, delays, scenarios and additional functions to open and close shutters, adjust blinds, control valves with PWM algorithm and drive multiple Fancoil devices (2 or 4 pipes). It also has a set of logic functions consisting of by 16 inputs for each channel and freely configurable (OR, AND, XOR and GATE between channels). The outputs can be parameterized individually with ETS.
The versatility of this device makes it particularly suitable for distributed design, since all the actuations of an entire household and tertiary can be implemented with one module only. It is possible to find an innumerable combination among the above-mentioned functions, in order to optimize all the possible outputs.

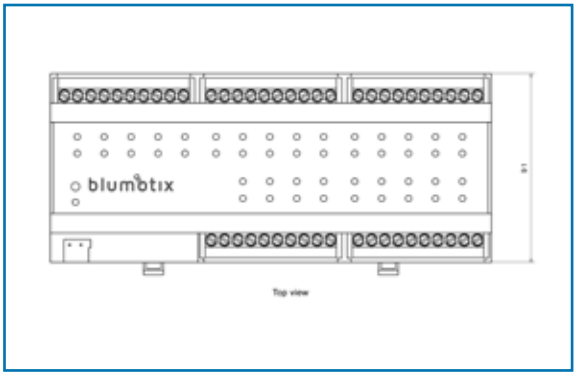
KNX FUNCTIONS

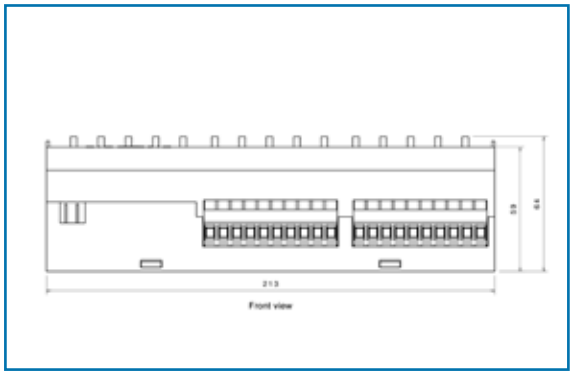
- 24 outputs for light control/general loads with functions of: timing/forcing/blocks/delays
- 24 channels for valve control in PWM with anti valve locking function
- 12 channels for controlling roller shutters/blinds/shades
- 2 or 4-pipe fancoil actuators, from 1 to 3 speeds. The number depends on the configuration.
- Logic functions
- General functions

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- Rated current IN: 16 A
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 12 DIN modules

DIMENSIONS





16/8-channel multifunctional actuator

BX-RO16 e BX-RO8

DESCRIPTION

BX-RO16 and BX-RO8 are 16/8-channel DIN-rail-mounted multifunctional actuator for independent switching of loads by by relay contacts. Switching of outputs can also be managed by buttons on the front panel. A green LED indicates the status of the channel.

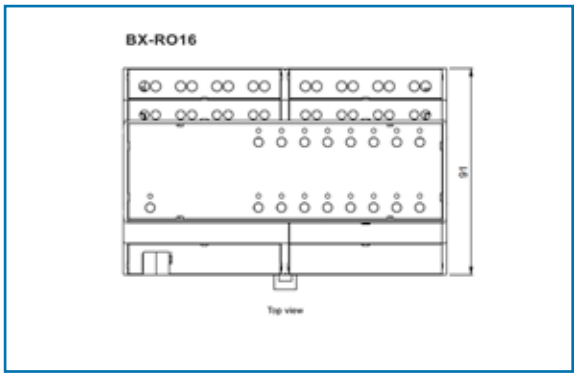
They are equipped with bistable relays with 16 A contacts directly connected to the terminals, without phase sharing. The screw terminals can accommodate wires up to 2.5 mm2 in cross section. The contacts can withstand an inrush current of up to 320 A in the first 2 ms, so they are particularly suitable for driving inductive loads typical of fluorescent or neon lamps. The devices provide switching functions, status notification, lockout command, forcing, timing, delays, scenarios, and management of roller shutters and blinds. They control valves with PWM algorithm and can drive multiple fancoil devices (2 or 4 pipes). They also have a set of logic functions consisting of 16 communication objects of input for each channel; they can be combined with OR, AND, XOR and GATE logic operations.

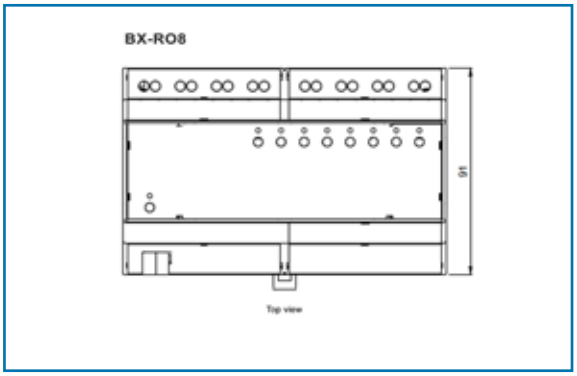
With the above-mentioned functions, countless combinations can be configured, and this makes it possible to optimize the use of all outputs. BX-RO16 and BX-RO8 are parameterizable by the ETS software, and their versatility makes them particularly suitable for distributed planning; all the operations required to manage a residential or tertiary building will be implementable with a single device.

TECHNICAL DATA

- Rated relay input voltage: 230 V ac, 50/60 Hz
- Rated relay contact current: 16 A
- Power supply: via KNX bus, 29 V dc SELV
- Bus current consumption: max 17 mA
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electrical connections: screw terminal, max. cable cross section 2.5 mm2 (AWG12)
- Degree of protection: IP20
- Dimensions: 8 DIN modules

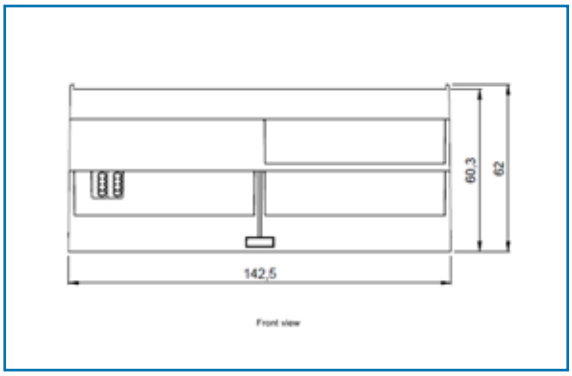
DIMENSIONS





KNX FUNCTIONS

- 16/8 relay outputs for controlling lights/general loads with timing, forcing, blocking, delay functions
- 16/8 channels for PWM valve control with anti-blocking function
- 8/4 channels for control of blinds/shutters/curtains
- 2 or 4-pipe fan coil actuators, 1 to 3 speeds. The number depends on the configuration
- Logic functions
- General functions



4-channel multifunctional actuator

BX-RO4 NEW

DESCRIPTION

The BX-RO4 is an 4-channel DIN-rail-mounted multifunctional actuator for independent switching of loads by relay contacts. The switching of the outputs can also be managed via the buttons on the front panel. A green LED indicates the status of the channel.
It features 16 A bi-stable relays with contacts connected directly to the terminals, without phase sharing. The screw terminals can accept cable sections up to 2,5 mm2. The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps.
The device provides switching functions, status notification, lockout command, forcing, timing, delay, scenarios and management of shutters and blinds. It controls valves with PWM algorithm and can drive fancoil devices (2 or 4 pipes). It also has a set of logic functions consisting of 16 input communication objects for each channel; they are combinable with OR, AND, XOR and GATE logic operations.
With the above-mentioned functions, countless combinations can be configured, and this allows optimizing the use of all outputs. BX-RO4 is parameterizable by ETS software and its versatility makes it particularly suitable for distributed designing.

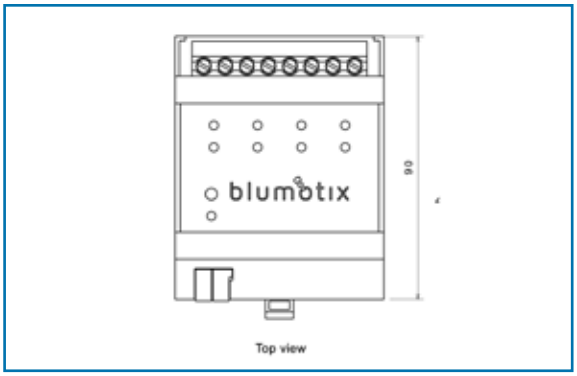
KNX FUNCTIONS

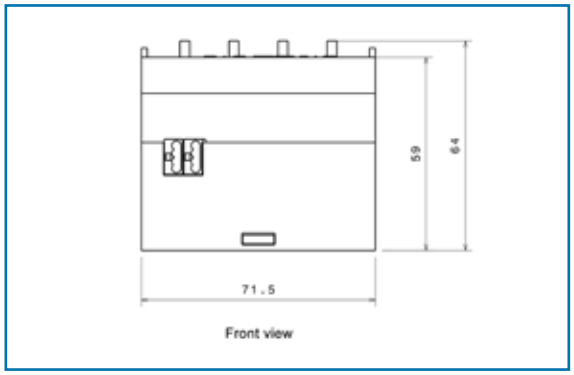
- 4 relay outputs for controlling general lights/loads with timing, forcing, blocking, delay functions
- 4 channels for PWM valve control with anti-locking function
- 2 channels for the control of roller shutters/blinds/curtains
- Actuators for a 2- or 4-pipe fan coil, 1 to 3 speeds
- Logic functions
- General functions

TECHNICAL DATA

- Rated relay input voltage: 230 V ac, 50/60 Hz
- Rated relay contact current: 16 A
- Power supply: via KNX bus, 29 V dc SELV
- Bus current consumption: max 12 mA
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electrical connections: screw terminal, max. cable cross-section 2.5 mm2 (AWG10)
- Degree of protection: IP20
- Dimensions: 4 DIN modules

DIMENSIONS





Multifunctional actuator 16/8 with digital inputs and 16/8 I/O LINES

BX-RIO16 e BX-RIO8

NEW

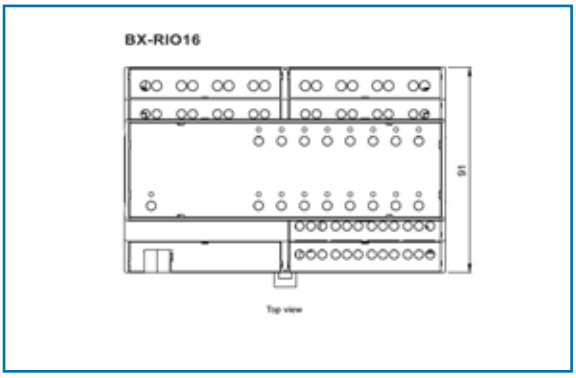
DESCRIPTION

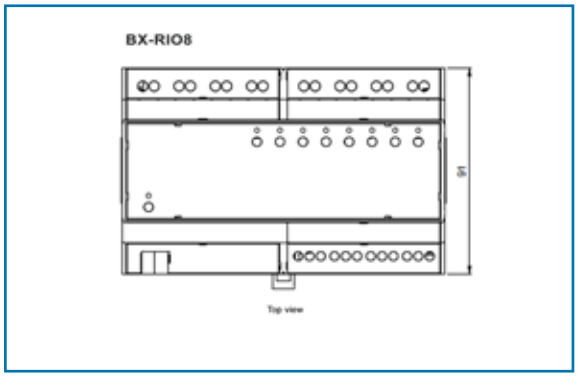
BX-RIO16 and BX-RIO8 are 16/8-channel multifunction actuators for mounting DIN rail for independent switching of loads by relays contact. Switching of the outputs can also be managed using the pushbuttons located on the front panel. A green LED indicates the status of the channel.
They are equipped with bistable relays with 16 A contacts directly connected to the terminals, without phase sharing. The screw terminals can accommodate cable cross-sections up to 2.5 mm2. The contacts can withstand an inrush current of up to 320 A in the first 2 ms.
These devices provide switching functions, status notification, lockout command, forcing, timing, delays, scenarios, management of shutters and blinds and valves control. The module also has 16/8 input or output lines freely configurable for reading dry contacts and driving LEDs. It is possible to select 4 lines for connecting probes NTC temperature probes (in the BX-RIO16 version).
With the above-mentioned functions, countless combinations can be configured, and this allows optimizing the use of all the outputs. BX-RIO16 and BX-RIO8 are parameterizable by the ETS software, and their versatility makes them particularly suitable for distributed designing.

TECHNICAL DATA

- Rated relay input voltage: 230 V ac, 50/60 Hz
- Rated relay contact current: 16 A
- Power supply: via KNX bus, 29 V dc SELV
- Bus current consumption: max 17 mA
- LED output: 3.3 V, 1 mA
- Dry contact input: 3.3 V
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electrical connections: screw terminal, max. cable cross-section
- 2.5 mm2 (AWG10)
- Degree of protection: IP20
- Dimensions: 8 DIN modules

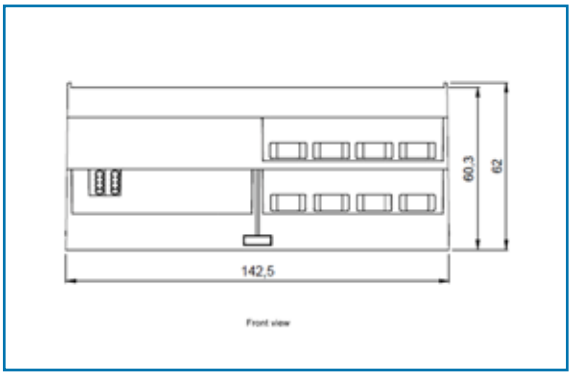
DIMENSIONS





KNX FUNCTIONS

- 16/8 relay outputs for controlling lights/general loads with functions for timing, forcing, blocks, delays
- 16/8 channels for PWM valve control with anti-locking function
- 8/4 channels for blinds/shutters/curtains control
- 2 or 4-pipe fancoil actuators, 1 to 3 speeds. The number depends on configuration
- 16/8 inputs (dry contact) or outputs (LED) freely configurable; 4 lines can be configured as inputs for NTC temperature probes (in the BX-RIO16)
- Logic functions
- General functions



8-channel and 12-channel multifunctional actuator

BX-MFB12
BX-MFB08

DESCRIPTION

BX-MFB12 and BX-MFB08 are 12/8-channel DIN-rail-mounted multifunctional actuator for independent switching of loads by means of closing contacts.
The 230 V ac switching output can be controlled by the push buttons on the front. A green LED indicates the status of the channel. It features 16 A bistable relays with contacts connected directly to the terminals, without phase sharing. The screw terminals can accept cable sections up to 5 mm2.
The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps

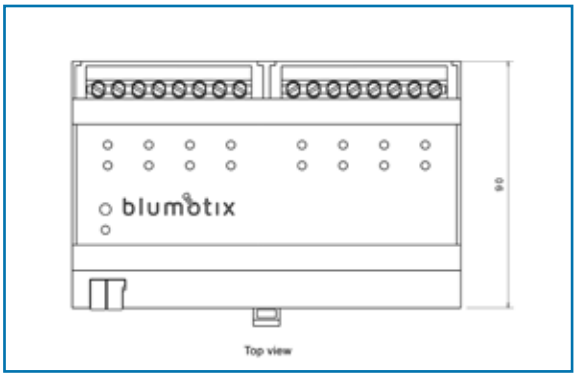
KNX FUNCTIONS

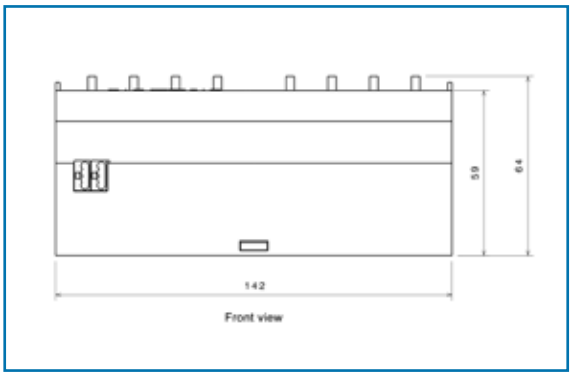
- Switching function
- Staircase light and delay functions
- Scenario function
- Logical functions: there are 16 generic logical operators to be assigned to the desired channels without restrictions.
- Channel status feedback
- Checking roller shutters and Venetian blinds
- Thermostatic valve control with PWM algorithm and fancoil devices

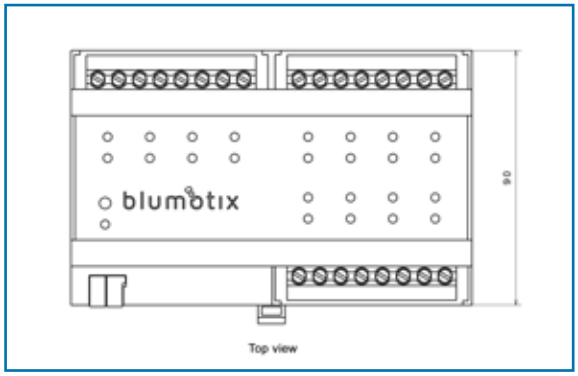
TECHNICAL DATA

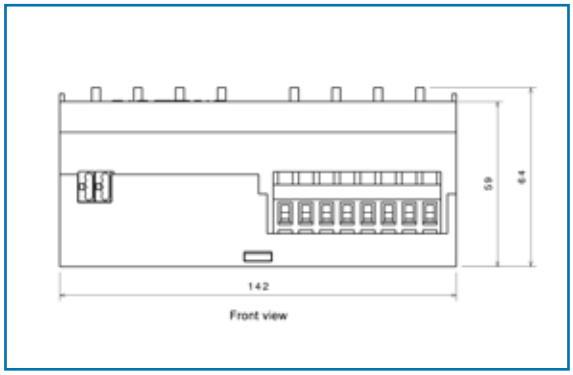
- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- Rated current IN: 16 A
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 12 DIN modules

DIMENSIONS









4-channel multifunctional actuator
BX-MFB04

DESCRIPTION

The BX-MFB04 is an 4-channel DIN-rail-mounted multifunctional actuator for independent switching of loads by means of closing contacts. The 230 V ac switching output can be controlled by the push buttons on the front. A green LED indicates the status of the channel. It features 16 A bi-stable relays with contacts connected directly to the terminals, without phase sharing. The screw terminals can accept cable sections up to 5 mm2.
The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps.

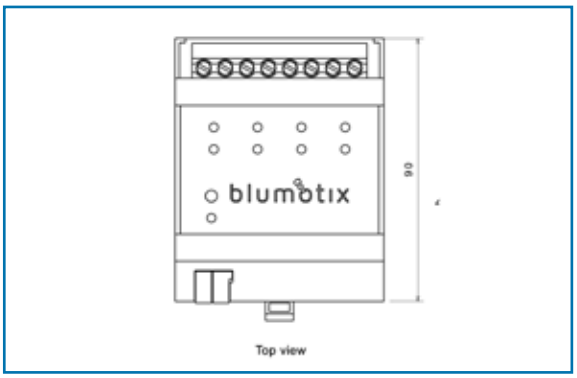
KNX FUNCTIONS

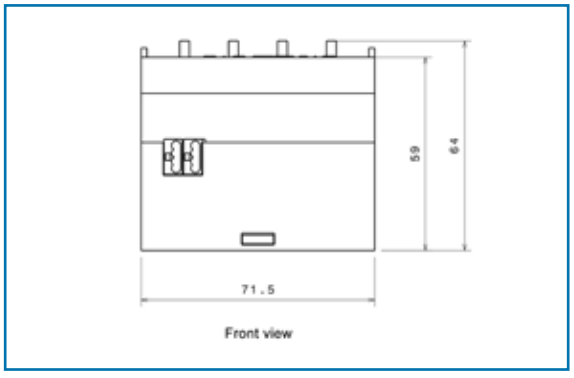
- Switching function
- Staircase light function
- Scenario function
- Logical functions: 16 generic logical operators are available to be assigned to the desired channels without restrictions.
- Channel status feedback
- Checking roller shutters and venetian blinds
- Thermostatic valve control with PWM algorithm and fancoil devices

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- Rated current IN: 16 A
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 4 DIN modules

DIMENSIONS





24-channel multifunctional actuator
BX-SW24

DESCRIPTION

The BX-SW24 is a 24-channel DIN-rail-mounted combination (light/shutter) actuator for independent switching of loads via the closing contacts.
The 230 V ac switching output can be controlled by the push buttons on the front.
A green LED indicates the status of the channel.
It is equipped with 16 A bistable relays with contacts connected directly to the terminals, without phase sharing.
The screw terminals can accept cable sections up to 5 mm2.
The relays used can withstand an inrush current of up to 320 A in the first 2 ms, making them particularly suitable for controlling inductive loads such as fluorescent or neon lamps.

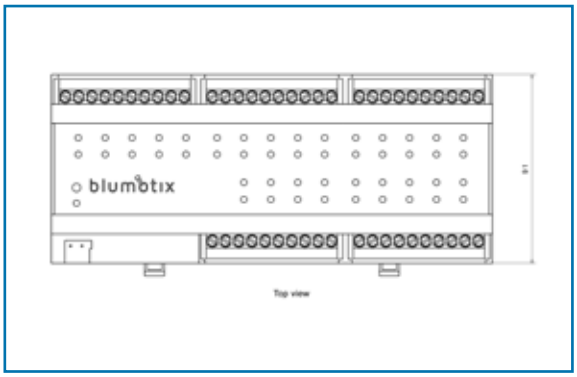
KNX FUNCTIONS

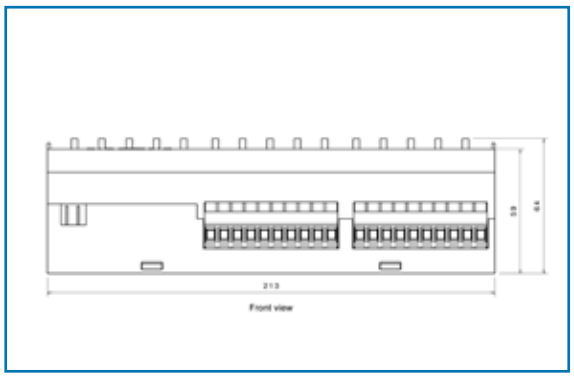
- Switching function
- Staircase light and delay functions
- Channel status feedback
- Checking roller shutters and Venetian blinds
- Locking function
- General functions

TECHNICAL DATA

- Input voltage: 230 V ac, 50/60 Hz
- Power supply: KNX bus, 29 V dc SELV
- Consumption on bus: 12 mA
- Rated current IN: 16 A
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Electric connections: screw terminals, max. cable section 5 mm^2 (AWG10)
- Degree of protection: IP 20
- Dimensions: 12 DIN modules

DIMENSIONS





4 channels KNX analog actuator
BX-DM05

NEW

DESCRIPTION

BX-DM05 is a 4-channel multifunctional actuator, with analog outputs in voltage, designed for DIN rail mounting.
The device's outputs can be configured and used independently, providing voltage commands to equipment dedicated to the regulation of heating, cooling, ventilation (HVAC) and also in the area of lighting.
In addition to the KNX bus connection, the device requires an auxiliary DC power supply, from which the output voltage of the 4 channels is generated. The outputs will be controlled according to the chosen configuration and the commands given via the KNX bus. On the front of the module there are 4 buttons and 4 indicator lights dedicated to test and operation diagnostics, also on the front are the button for programming the physical address KNX and the LED that reports the status of the mode itself.
The screw terminals can accommodate cables up to 5 mm2 in cross section. Via KNX bus, the device receives output actuation commands via different types of communication objects; it provides for also functions for status notification, lockout command, forcing, timings, delays, scenarios. The analog output curve can also be customized by setting appropriate parameters.

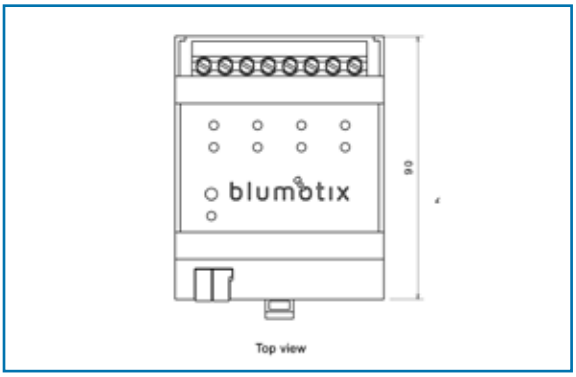
TECHNICAL DATA

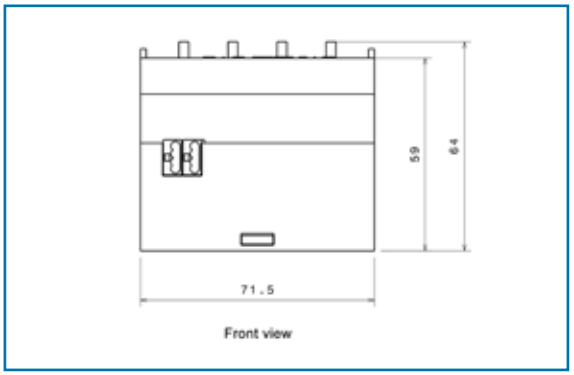
- Auxiliary power supply 12 -24 V dc
- Selectable output ranges: 0-1, 0-5, 0-10, 1-10 V dc
- Output current: max 20 mA per channel
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Operating humidity: max. 93% (non-condensing)
- Degree of protection: IP20
- Dimensions: 4 x 18 mm DIN modules

KNX FUNCTIONS

- 4 configurable channels with different voltage ranges
- Timing function, flashing, dimming, scenarios, blocking, forcing
- Analog function with adjustment curve customizable from 2 to 15 points
- General commands
- Up to 7 types of control objects (DPT)
- Settable ramp times

DIMENSIONS





Flush-mounted actuator 1 channel and 3 inputs

BX-CI01

DESCRIPTION

The new BLUMOTIX flush-mount actuators are part of the KNX Secure devices.
BX-CI01 is a 1 module 16 A KNX on/off actuator.
The actuator is also equipped with two inputs for mounting in a box for switches.
They can be connected to potential-free contacts.
The two inputs can be locked independently or play various functions.
It also has an additional input allowing for example the connection of remote temperature probe (NTC).

KNX FUNCTIONS

- NC contact and NO contact operation
- Feed-back function
- Connection and forced-run function
- Central switching functions
- Timed functions: on/off delay, staircase light switch with pre-warning function
- Scenario function
- Hour counter
- Control function Switching
- Control function Brightness adjustment (incl. colour temperature control)
- Venetian blind control function
- Switching control function Transducer (1 byte, 2 bytes, 3 bytes and 6 bytes incl. default values for RGBW and colour temperature)
- Control function scenario activation
- Control function 2-channel control
- Control function External control of a controller
- Blocking functions
- Adjustable suppression time

TECHNICAL DATA

- Output via KNX telegrams or controllable external control inputs
- Three external control inputs on connection of de-energised contacts or condensate/leakage sensors.
- NTC temperature sensor connectable to input 3.
- Sensor R25°C 33 KΩ - B25/100 4300K
- Power supply via KNX, no additional supply voltage required
- Compatible with KNX Data Secure.

Multifunctional flush-mounted actuator 2 channels and 3 inputs

BX-CI02

DESCRIPTION

The new BLUMOTIX recessed actuators are part of the KNX Secure category.
BX-CI02 is a switch actuator, 2 channels / actuator for blinds, 1channel.
The actuator is also equipped with two inputs for mounting in one box for switches. They can be connected to potential-free contacts.
The two inputs can be locked independently or perform various functions.

SWITCH FUNCTIONS

- NC and NO contact operation
- Feed-back function
- Linking and forced-run function
- Central switching functions with collective feed-back
- Timed functions: on/off delay, staircase light switch with pre-warning function
- Scenario function
- Hour counter

EXTERNAL CONTROL INPUT FEATURES

- Control function Switching
- Control function Brightness adjustment (incl. colour temperature control)
- Venetian blind control function
- Switching control function Transducer (1 byte, 2 bytes, 3 bytes and 6 bytes incl. default values for RGBW and colour temperature)
- Control function Scenario activation
- Control function 2-channel control
- Control function External control of a controller
- Blocking functions
- Adjustable suppression time

PROPERTIES VENETIAN BLIND MODE

- Suitable for AC 110...230 V motors
- Operating modes "Venetian blind with slats", "Roller shutter/awning", "Window ventilation/roof window"
- Directly controlled blind position
- Direct slat position adjustment possible
- Feedback of motion status, blind position and slat position
- Forced position for superordinate control
- Safety function: 3 independent wind alarms, rain alarm, frost alarm
- Sun protection function with automatic heating/cooling
- Blocking function (blocking protection)
- Scenario function

TECHNICAL DATA

- Output via KNX telegrams or controllable external control inputs.
- Three external control inputs on connection of powerless contacts or condensate/leakage sensors.
- NTC temperature sensor connectable to input 3.
- Sensor R25°C 33 KΩ - B25/100 4300K
- Power supply via KNX, no additional supply voltage required
- Compatible with KNX Data Secure.


Smart Building
SUPERVISION

KNX/multi-protocol logic controller
BX-BLUSERVER

DESCRIPTION

BX-BLUSERVER is the easiest way to program complex logic in KNX/EIB, Modbus, BACnet networks. BX-BLUSERVER will allow you to efficiently customise building automation processes, offering unlimited flexibility benefits to end users in a cost-effective way.
BX-BLUSERVER is an embedded platform with integrated Ethernet, USB, KNX/EIB, Serial interfaces.
BX-BLUSERVER can be used as a cross-standard gateway, logic engine, visualisation platform, IP Router.
Scripting templates provide a flexible and intuitive configuration interface and integration with cloud/web services and third-party devices. Through the application of customised scripts, the BX-BLUSERVER can simultaneously function as a thermostat, security panel, lighting controller, etc.

TECHNICAL DATA

- Power-over-Ethernet supply
- Automatic control and information of the Ethernet connection in case of problems
- Application development and application shop
- Cloud-ready device with Microsoft Azure, Amazon Web
- Services and other supported services
- Gateway and uniform control of KNX, ModBus RTU/TCP, BACnet IP, DMX, M-Bus, GSM and more
- Unlimited scenario and logic engine
- Unlimited visualisation platform for PC and touch devices
- Dimensions: 3 DIN units
- Remote control of KNX bus and reprogramming of KNX device
- Object logging with trend support and data export to external servers
- iOS Siri and Google Voice control supported via native apps.

Miniserver
BX-MS02

DESCRIPTION

The BX-MS02 is a modern solid state memory server that allows you to view and control functions in your Konnex system via remote devices connected to the TCP/IP network.
The device is suitable for installation on 35 mm DIN rail. Interaction is via the KRIM and Doory apps that can be downloaded and installed on your terminal. Dedicated versions are available for iOS, Android and Windows 7.
The Blumotix BX-MS02 KNX Miniserver comes with Sentiero programming software that can be installed to create graphical displays for control screens.

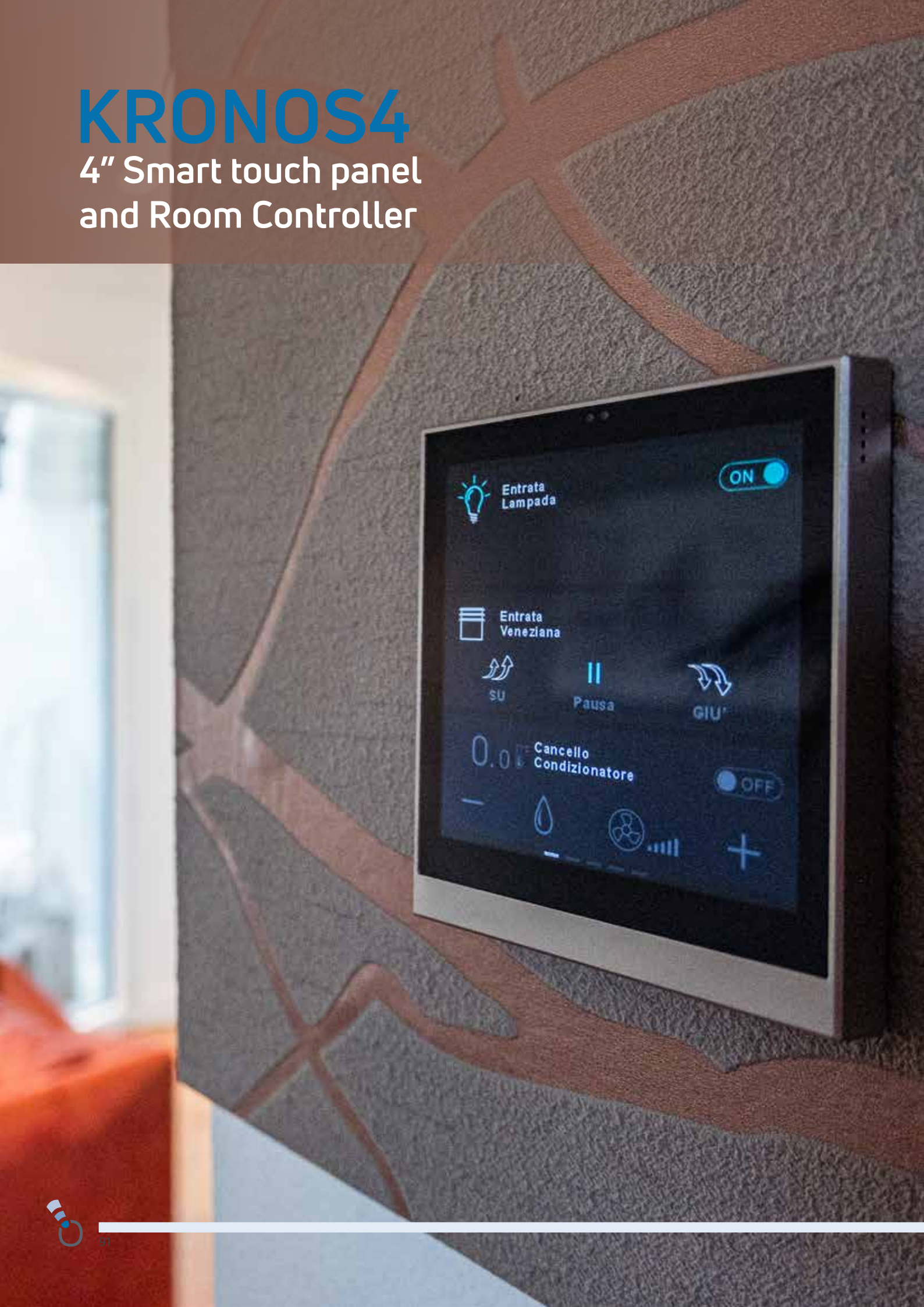
TECHNICAL DATA

- Power supply: : 12 ÷ 24 V dc
- Consumption 8 W
- SDRAM 128 Mb
- SD slot
- Integrated BCU KNX
- Ethernet port 100 Mb (RJ45)
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Degree of protection: IP20
- Dimensions: 4 DIN modules

REMOTE CONTROL APP

KRONOS4

4" Smart touch panel and Room Controller



KRONOS4
4" Touch panel
BX-KRONOS4

DESCRIPTION

KRONOS4 Collection is designed to integrate all the functions necessary for the supervision of houses and buildings.
The touch panel allows to control any KNX system in a simple and intuitive way. Made with a sleek design, KRONOS4 has aluminium frame and body of only 9 mm thick. The room controller is equipped with a temperature, humidity and laser proximity sensor.
It has 10 programmable pages in addition to the functions of temperature control and humidity control.
Scenes, dimmers, RGB/RGBW/TW controls, on/off switching, curtains/blinds, customizable climate settings and sound diffusion.
KRONOS4 can manage up to 10 thermal zones including air conditioners (VRV/ FANCOIL), HVAC, air quality control combined with the BX-TUC2 probes.
Available in two variants: BX - KRONOS4 - BL (totally black), BX - KRONOS4 - SL (black screen and silver metallic finish).

TECHNICAL FEATURES

- Energy saving function
- Screen resolution 480*480
- Supports brightness adjustment
- Screen saver
- Laser distance detection with associable function
- Control of VRV air conditioning
- Control of air conditioning Fan Coil
- Automatic dehumidification function
- Timing function
- Text function at 14byte
- Audio management function
- Dimming with RGB/RGBW/WW adjustments
- Control of curtains/blinds
- Scenes
- On/Off light switching
- Temperature and humidity detection
- Temperature and humidity alarm
- Display function VOC / CO2 / CO gas
- Free combination of page icons
- Available languages: Italian and English
- Brightness adjustment of OLED display
- Installation on square box 2 modules (standard 86)
- Dimensions: 95 cm X 86 cm

THEO 10
Touch panel 10,1"
BX-T10

DESCRIPTION

The THEO line is designed to integrate all the functions necessary for home control.
THEO Touch Panels allow you to control any KNX installation in a simple and intuitive way.
The use of multi-finger capacitive glass allows you to drag and slide the controls to make the use of the device even simpler and more intuitive. The IPS display offers HD quality video definition with a very wide vertical and horizontal viewing angle.

The integrated webserver allows remote control of the KNX system directly from a Smartphone or Tablet using the Blumotix KRIM App available in IOS and Android versions. KRIM is free of charge and can be downloaded from iTunes or Google Play.

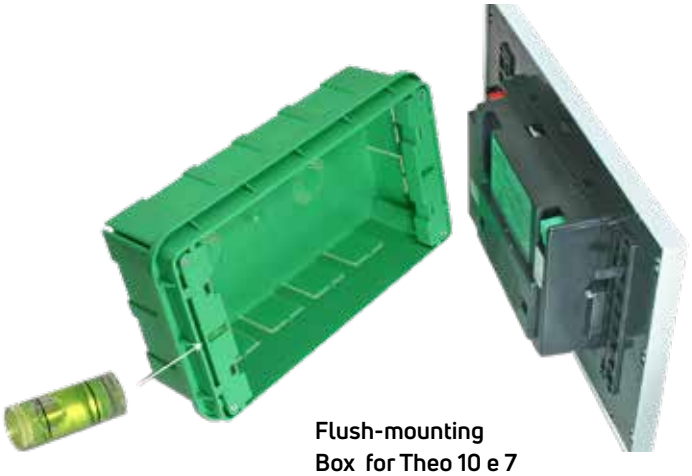
KNX FUNCTIONS

- Light control
- Window control
- Air conditioning
- Load control
- Camera management
- Timer and chronothermostat
- Scenario programming

TECHNICAL DATA

- Output power Supply: 12 ÷ 24 V dc
- Power absorption: 15 W
- Display: 10,1" - IPS - 16:9 - 1280x800 pixel
- CPU iMx6 Dual Lite 1 GHz
- RAM DDR2 1 Gb
- Slot micro USB OTG
- Integrated BCU KNX
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Degree of protection: IP20
- Dimensions: 282 x 168 x 12 mm

Flush-mounting Box
BX-KW07



Flush-mounting Box for Theo 10 e 7

KAIROS 24
4,3" Touch panel with miniserver
BX-K24MS

DESCRIPTION

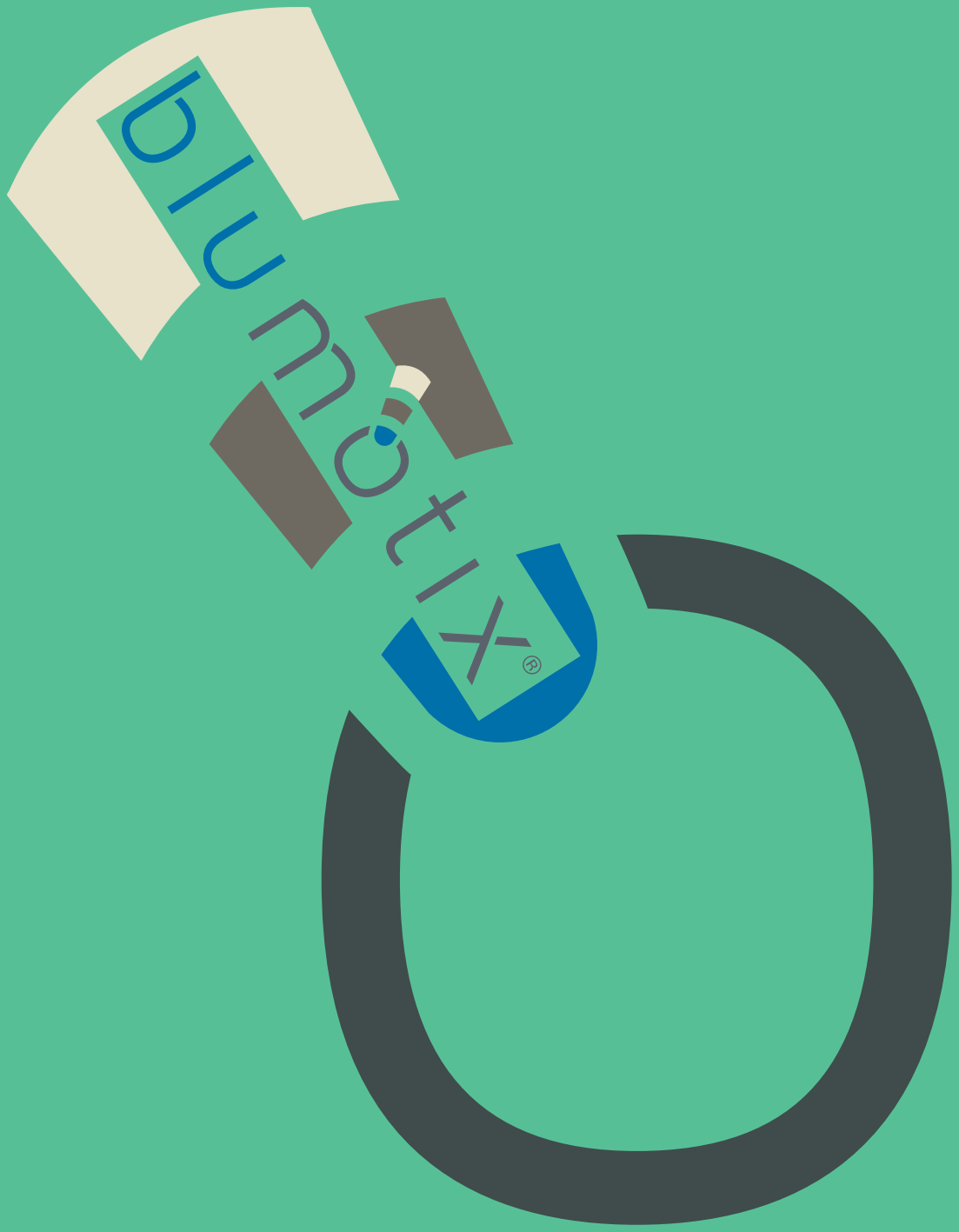
The resistive Touch Panels of the Blumotix Kairos line allow the user to display and modify the status of each KNX device installed in the system in a simple and intuitive way, thus enabling complete home control.
The appearance of the individual Touch Panels is fully customisable thanks to the possibility of modifying the graphic characteristics of the user interface by inserting maps, plans, images and icons to describe your home in the most intuitive way.

KNX FUNCTIONS

- Light control
- Window control
- Air conditioning
- Load control
- Camera management
- Timer and chronothermostat
- Scenario programming

TECHNICAL DATA

- Power supply: : 12 ÷ 24 V dc
- Power absorption: 2 W
- 4.3 inch TFT color display
- Screen resolution 480 x 272 pixels
- LED backlight
- Computer ARM9 454 MHz
- RAM DDR2 128 Mb
- Micro SD slot
- Integrated BCU KNX
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8 mm
- Degree of protection: IP20
- Rectangular flush-mounting box (504)
- Dimensions: 147 x 87 x 37 mm



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