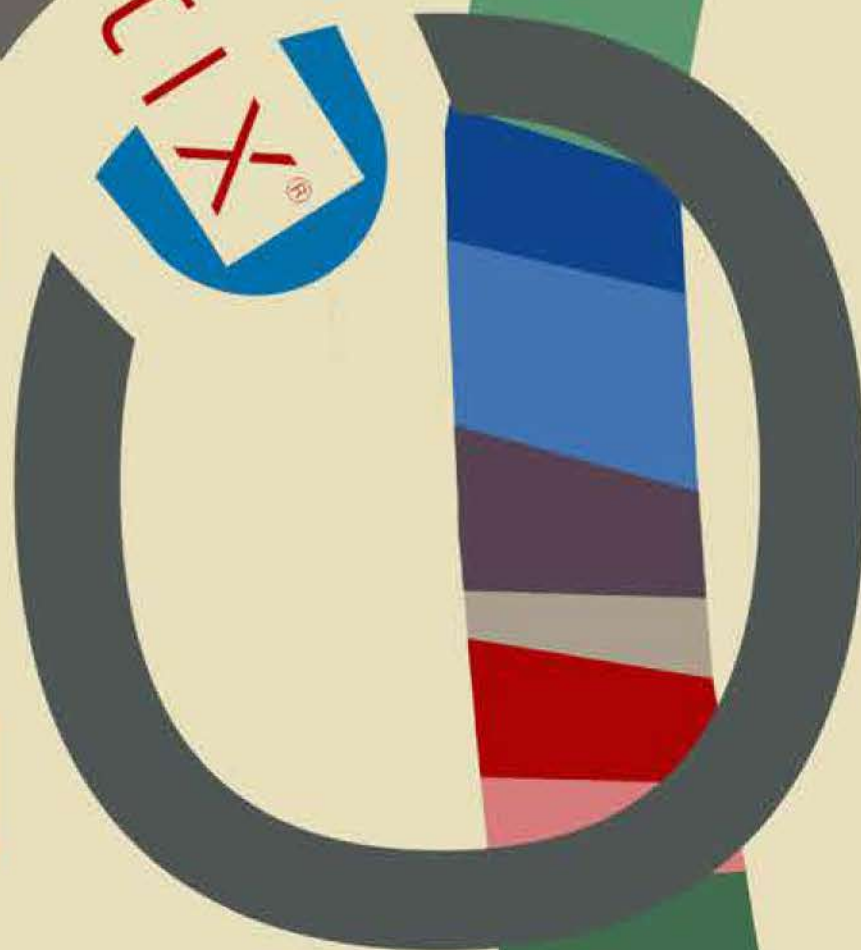




Home & Building
Automation



CATALOGUE 2026

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The Company

Welcome to Blumotix, the Future of Building Automation!

An Italian excellence — a family-run company owned by the Fabbri Family, active for five generations in both national and international innovation and entrepreneurship. From Lugo, in the heart of Romagna, we design and manufacture cutting-edge devices with KNX technology for smart building management.

Our Story in Brief...

Since 2009, Blumotix has embarked on an extraordinary journey, becoming a member of the Konnex Association and obtaining ISO 9001:2015 certification in 2010. Our evolution has never stopped: between 2014 and 2022, we developed a complete catalog of products for building automation, covering various sectors such as residential, hospitality, retail, and industrial facilities.

Focus on Innovation...

In 2019, we undertook a major restructuring, transforming our philosophy from “research-oriented” to “market-oriented.” Today, under the leadership of our dynamic CEO, we are ready to meet our clients’ needs — including in the OEM field.

Italian Design and Quality

Every Blumotix device represents a blend of innovation, customization and Italian design. Our products not only meet market demands but also stand out for their elegance and functionality.

Our Headquarters

In our facility in Lugo (Ravenna), production department, Research & Development laboratories and general management office coexist, creating an ideal ecosystem for innovation.

Choose Blumotix: where smart building technology meets Italian excellence!



“The two most important things do not appear in a company’s balance sheet: its reputation and its people.” (Henry Ford)

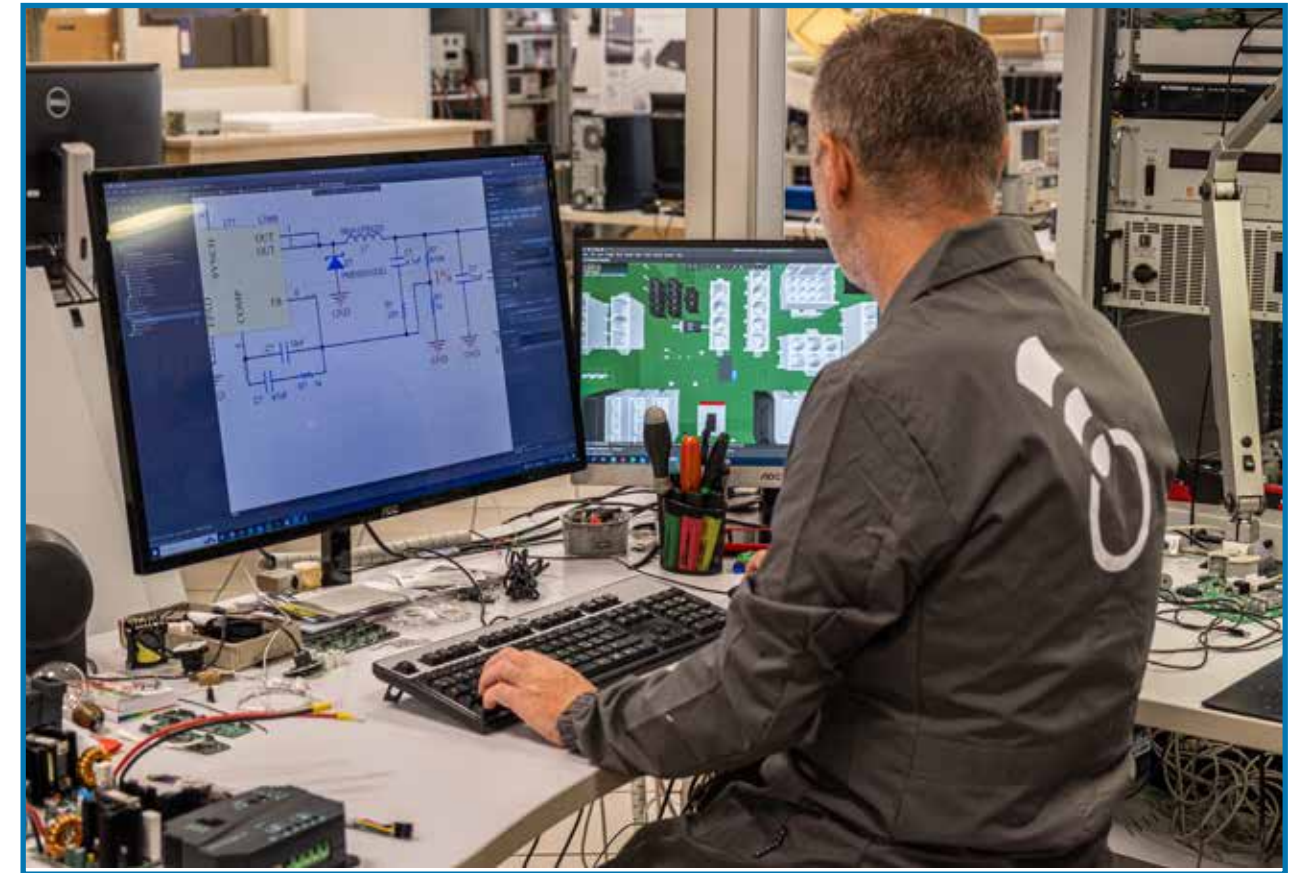


“With each generation, our family has not only inherited a passion for innovation but has also planted solid roots for companies that grow and evolve, carrying forward a legacy of technological excellence combined with Italian tradition.” (R. Fabbri)



“The secret of change is to focus all of your energy not on fighting the old, but on building the new.” (Socrates)

The Company



The Company



Our spaces are experiences

Residential



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.

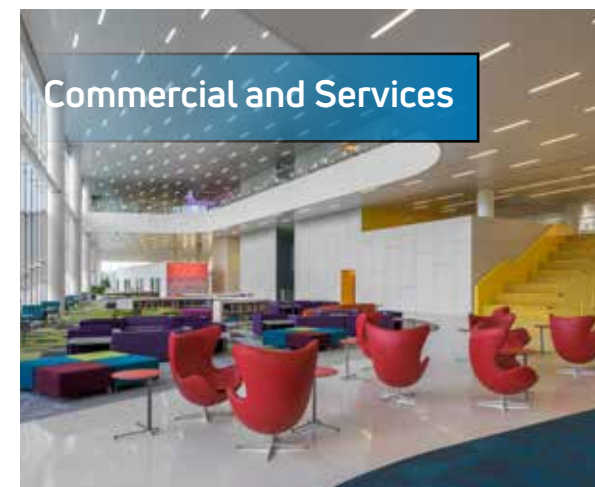
Hospitality



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.

Commercial and Services



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, making use 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 accordance with 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/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 are 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
136.573 partners
190 countries in the world



ITCC, Riyadh



Hotel Boston



Villa Clarke, Andalusia



Galleria Vik Hotel, Milano



Oakley Motorhome, Londra



La Pera, Marbella

The KNX standard

A communication protocol that makes 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 makes 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 operation of energy-efficient performance.

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

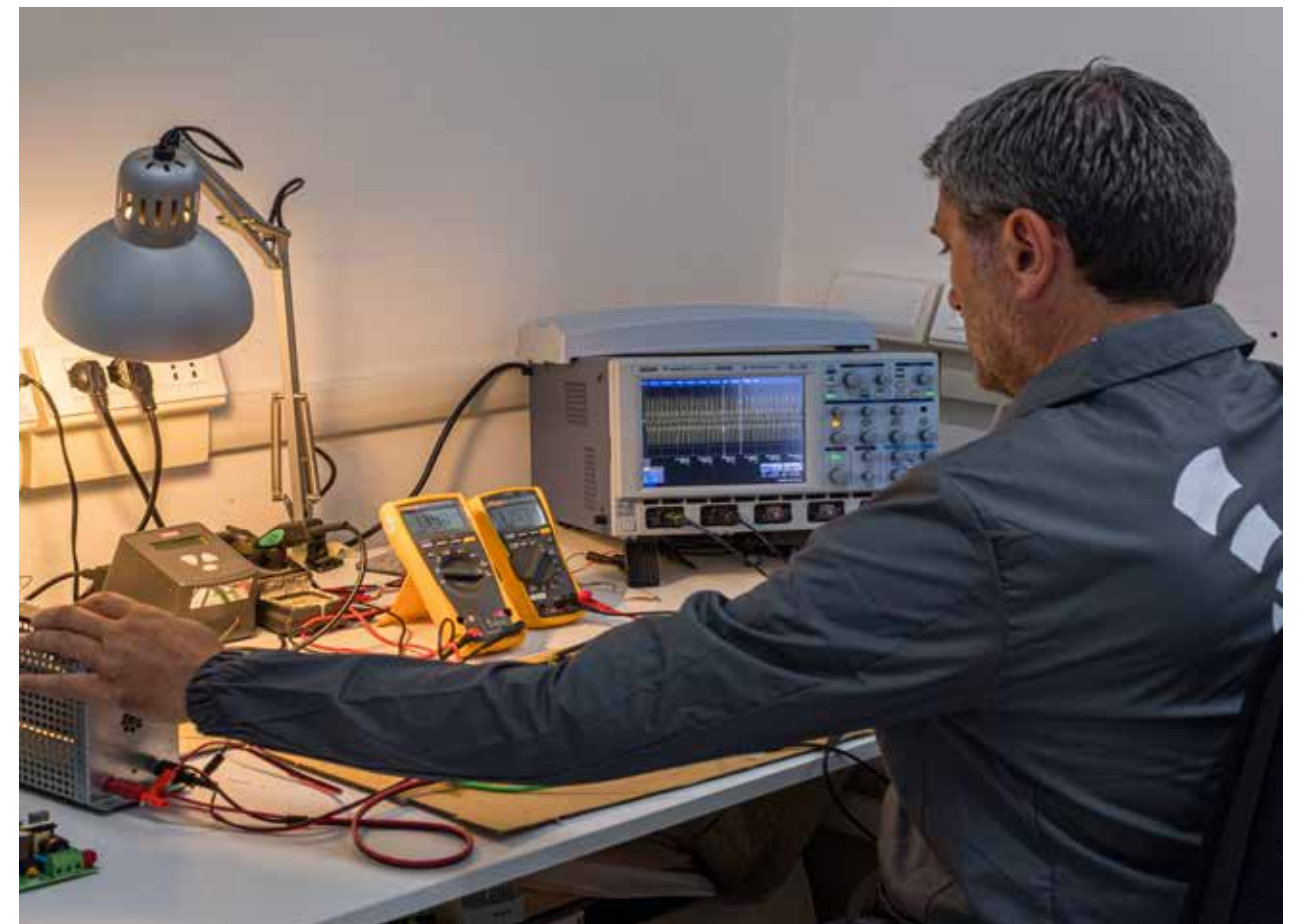
The right choice of what to install is the basic aspect behind any design. Interoperability is assured with the KNX protocol, allowing the most suitable device to be chosen from the thousands of certified products.

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 on 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 configure each individual component by choosing from among 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.

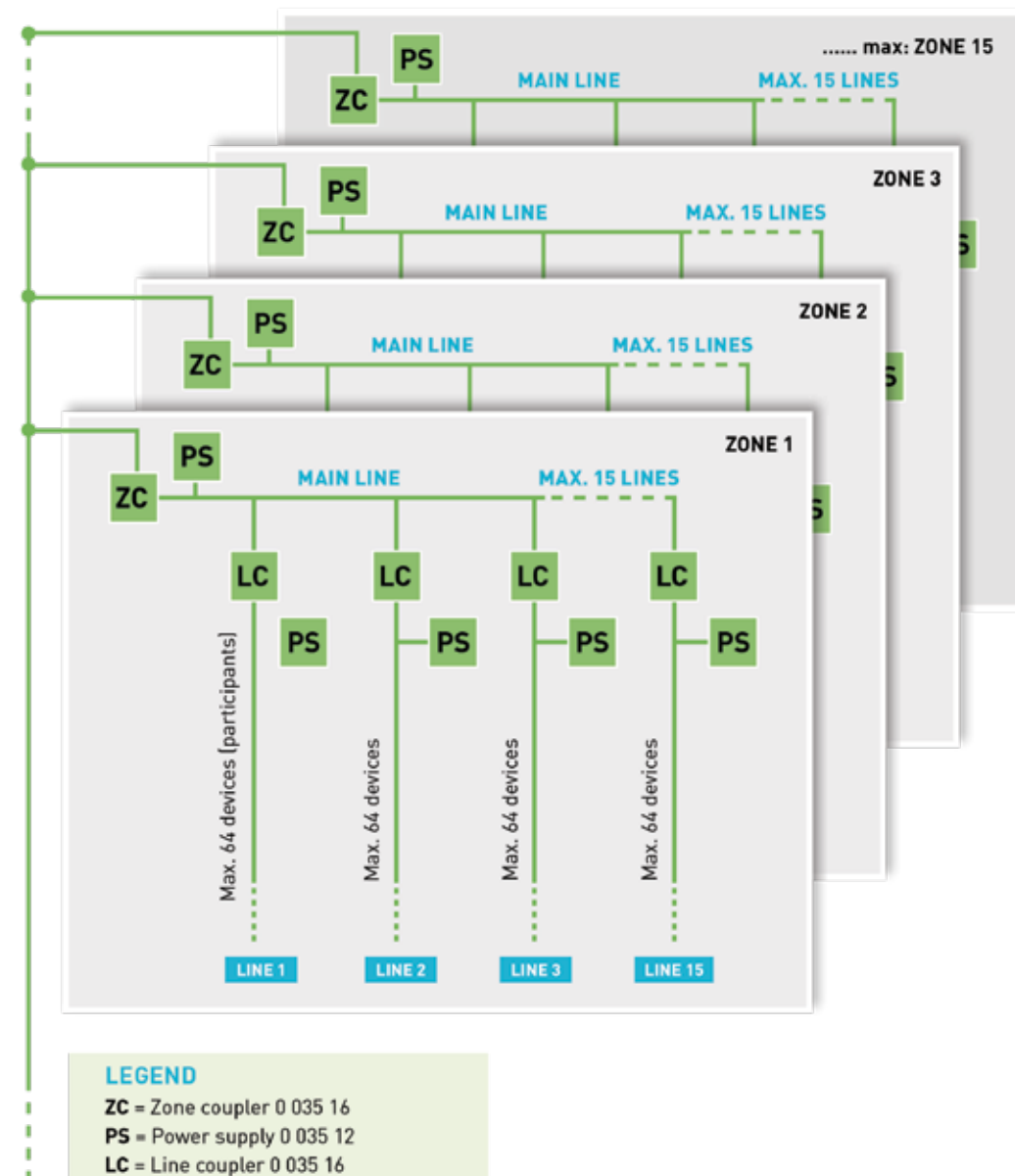
Up to 64 devices can be connected to each line. Indeed, it is possible – through the use of special Line Couplers (LCs) to connect up to a maximum of 15 lines (AREA).

A system can consist of 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.

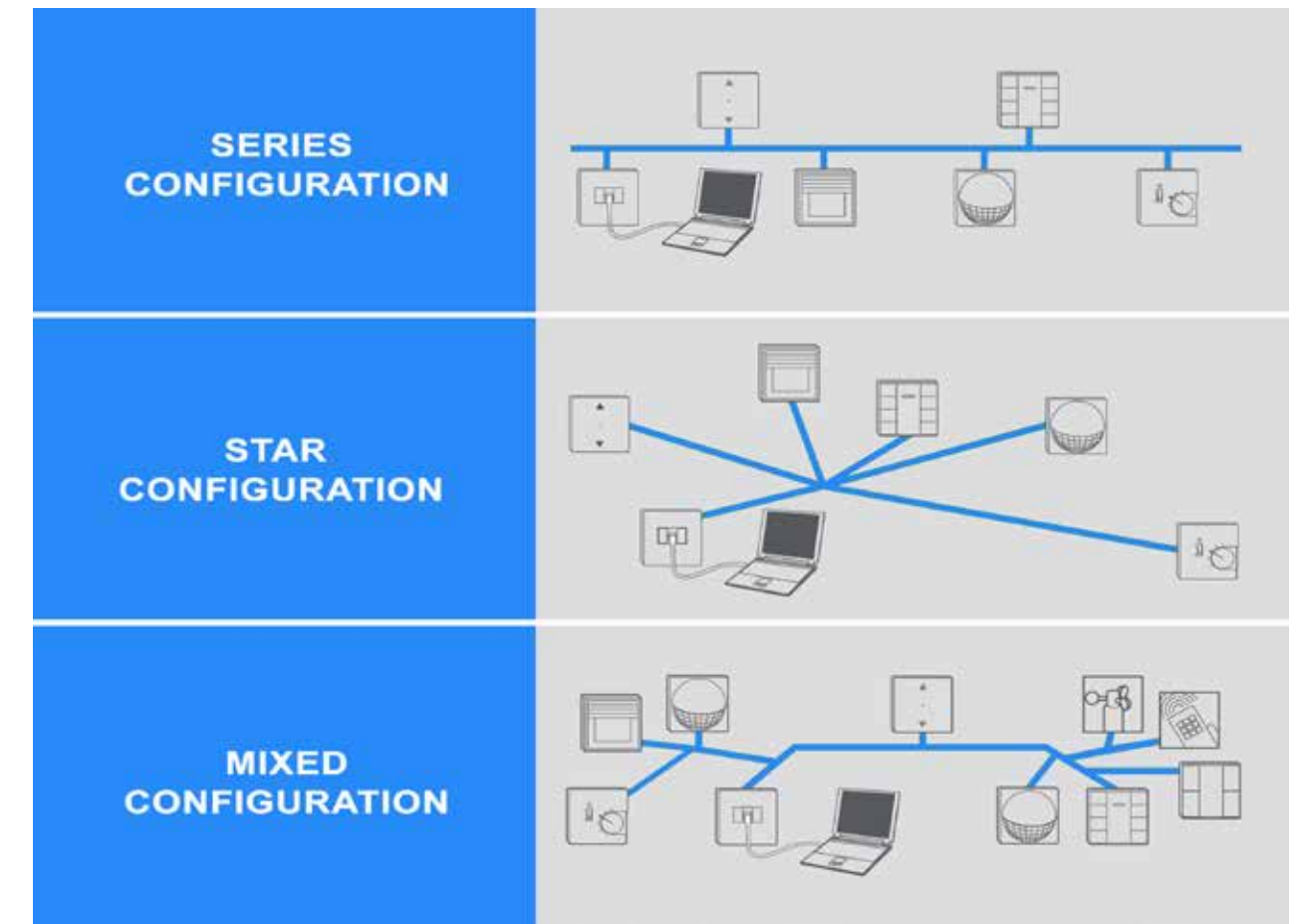


Installation standards

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 a 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:

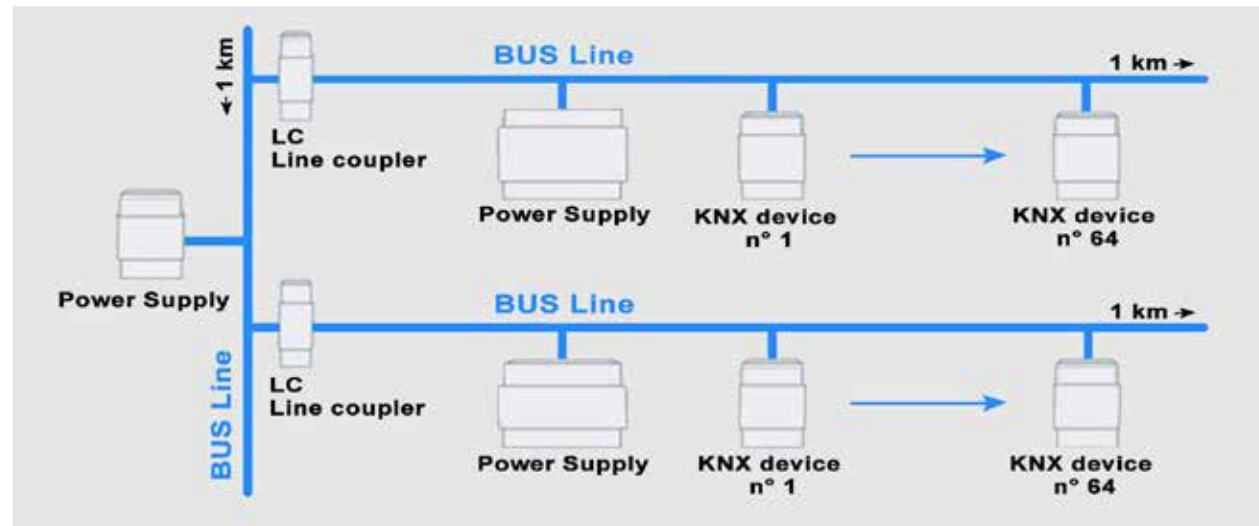
- Maximum cable length between the power supply and the bus device: 350 m.
- Maximum line length between two bus devices: 700 m.
- Total length of all cables within a line: 1,000 m.
- Maximum number of power supplies on the same line: 2 (at least 200 m apart)

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 makes 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

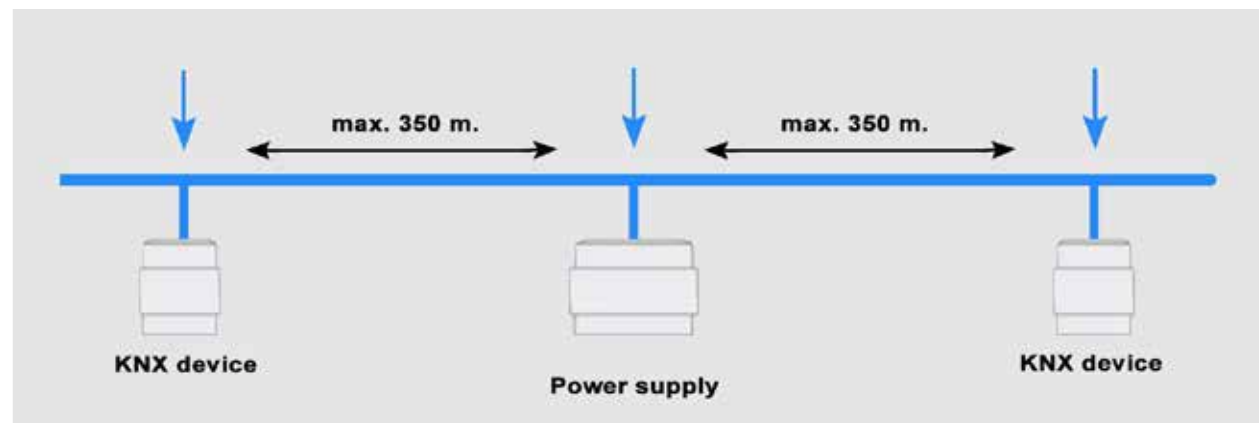
The KNX standard

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 an immediate detection of 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 Blumatix'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 natures 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.

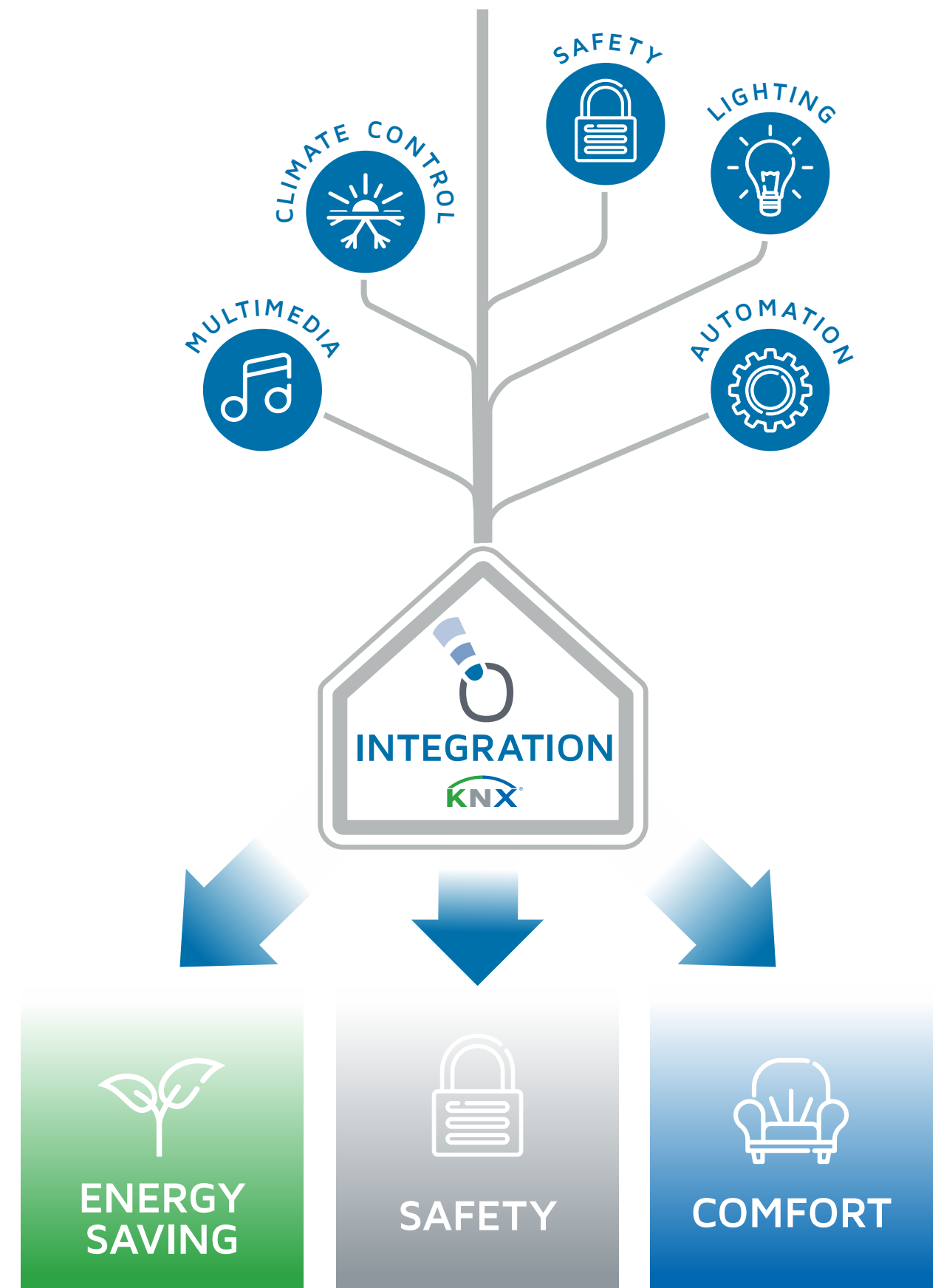
Creating a system with Blumotix devices means increasing the comfort and safety of use, reducing energy consumption and increasing the value of the building thanks to the products characterised by their ease of use along with their elegant and customizable design.

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 the field according to the regulations 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 commands, 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, making each one autonomous and interoperable, capable of working with over 7,000 devices on the market belonging to the same international standard.



Fields and Applications

Hall and waiting rooms

The Qubik multifunctional control panel with integrated temperature regulator makes 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 more quickly 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, CO₂ sensors to always guarantee proper air quality and to automatically activate forced ventilation when necessary, safety numeric keypads that enable access to areas reserved for personnel only and touch screens 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 makes 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..



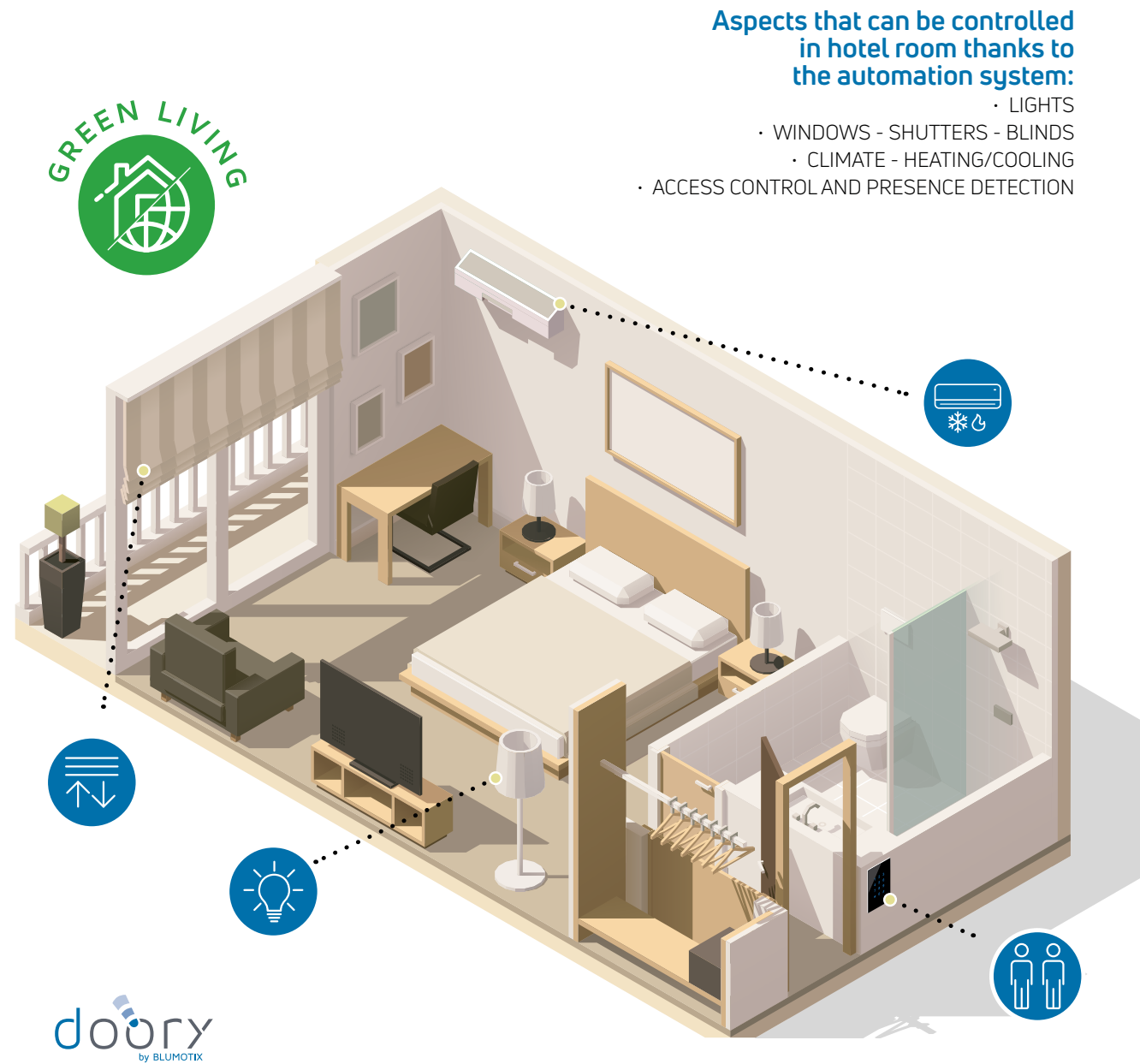
Aesthetic coordination and simplicity

"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 the numerical security codes to customers 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 detailed 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 simple graphical interface, 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

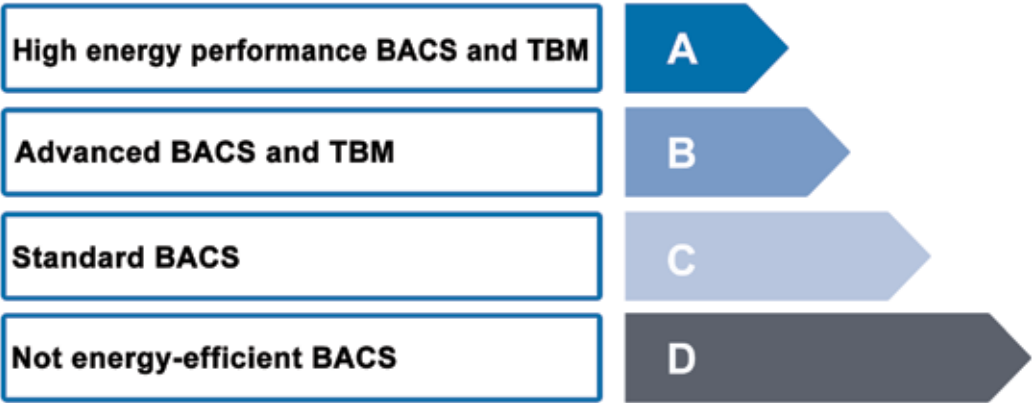
By choosing BX-HTLSx-365 solution, you purchase a license that allows you to have continuous technical assistance and annual software updates.

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 the available energy, consequently becoming the main contributors to carbon dioxide (CO₂) emissions. Energy efficiency inevitably becomes the first strategy in coping with the growing demand for power. There are three main ways to obtain it:

- passive systems
- active systems
- behaviour

EN ISO 52120-1 is the standard introduced by the 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, which is 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) and is also 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 sufficient 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 interactions between HVAC and various building services (such as the electricity, lighting, sunshading, and so on).”

Once the building is equipped with automation and control systems, one of these classes is assigned to it. 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 powered 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 of 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



Energy saving



Valves and pumps control



Alarms



Load control



Internet connections



Control



Saving



Logic functions



Scenarios



Electrical loads

Thanks to the 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 press and with a sequential press (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 on 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 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 accommodation 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 glass fronts.



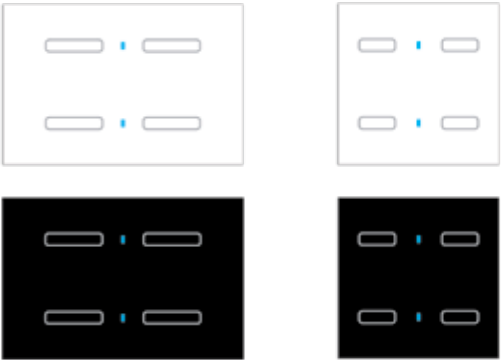
QUBIK

Glass Button

CAPACITIVE KEYPADS

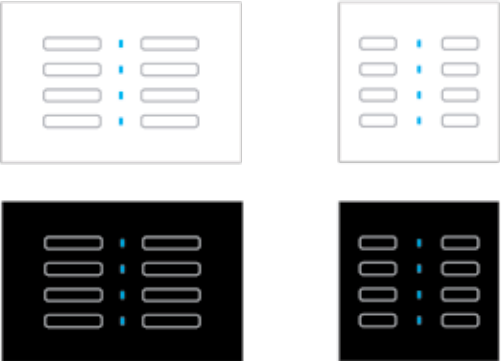
Glass Button

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

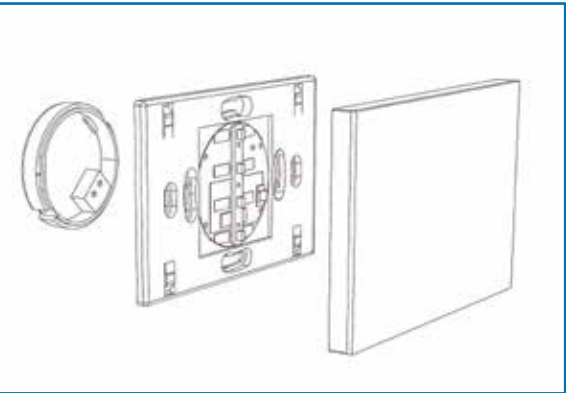


Model	Cod. Cover	Cod. Electronics
rectangular white	BX-F-RW4N	BX-E-R4
square white	BX-F-QW4N	BX-E-Q4
rectangular black	BX-F-RB4N	BX-E-R4
square black	BX-F-QB4N	BX-E-Q4

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 from 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 in round, rectangular or square boxes
- 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

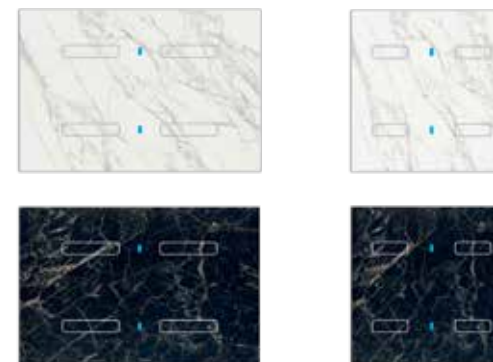
QUBIK

Glass Marble

CAPACITIVE KEYPADS

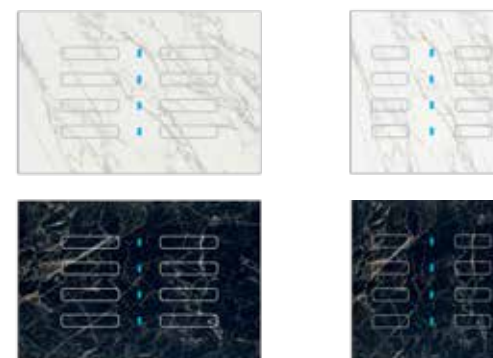
Glass Marble

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



Model	Cod. Cover	Cod. Electronics
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

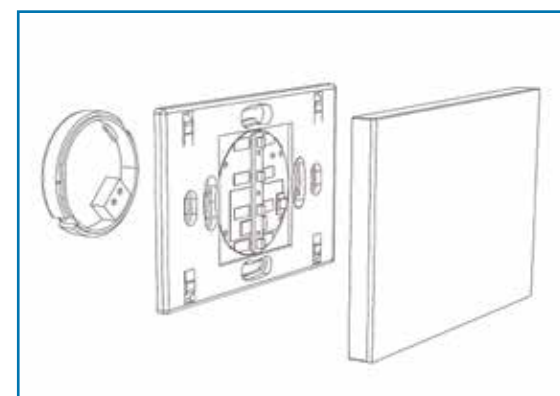
Glass keypad with marble effect, rectangular/square, black/white, 8 buttons



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 from 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 in round, rectangular or square boxes
- 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 from 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 in round, rectangular or square boxes

- 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. Electronics
	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. Electronics
	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



Model	Cod. of the cover	Cod. Electronics
rectangular 8 functions	TO CHOOSE FROM HOME DIVISION LINES	BX-E-R8-YACHT
square 8 functions		BX-E-Q8-YACHT
rectangular 4 functions	TO CHOOSE FROM HOME DIVISION LINES	BX-E-R4-YACHT
square 4 functions		BX-E-Q4-YACHT

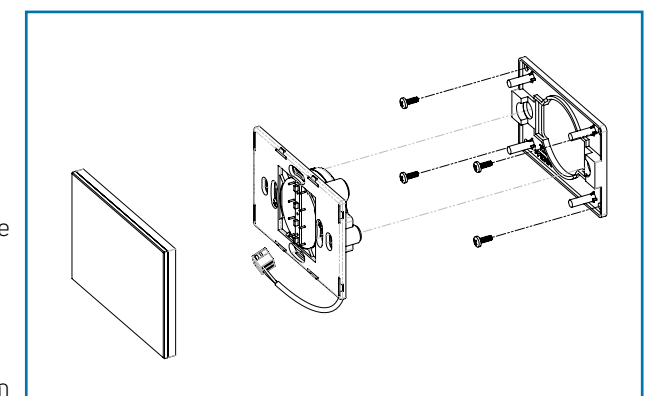
Yacht Line – Capacitive Glass Keypads

Qubik Collection expands with a new line of control keypads designed specifically for yachts and the marine sector. A refined design and exclusive technology define this collection, whose distinctive feature is its flush wall mounting with magnetic coupling — a solution that optimizes onboard space while giving the devices an even more elegant and contemporary aesthetic.

All Qubik lines already available for the Home Division can also be reproduced in the Yacht Line, ensuring the same aesthetic harmony. There is wide freedom of customization: glass covers available in various colors, tailor-made icons and the possibility of adding brands or logos to make each keypad a distinctive and unique element.

TECHNICAL DATA

- Power supply: via KNX bus, 29 Vdc SELV
- Current consumption from the bus: < 10 mA
- Versions: 2/4/8 freely configurable functions
- LEDs: 2/4 freely programmable RGB LEDs
- Integrated temperature sensor
- Room thermostat function
- Housing: plastic material
- Mounting: flush-mounted on round, rectangular, or square wall boxes
- Operating temperature: -5 ÷ +45 °C (indoor use)
- Bus line connection: via KNX terminal block
- Protection rating: IP20 (installed)
- Dimensions: square 80x80 mm and rectangular 120x80 mm



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 in round, rectangular or square boxes
- 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
- CO2 probe: 400-5000 ppm range, TVOC and IAQ concentration measurement

CAPACITIVE KEYPADS

Glass Vertical

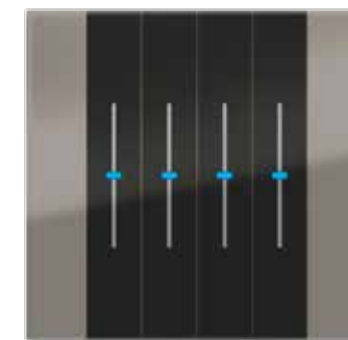
Square glass keypad, cream, on white base, 8 functions

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



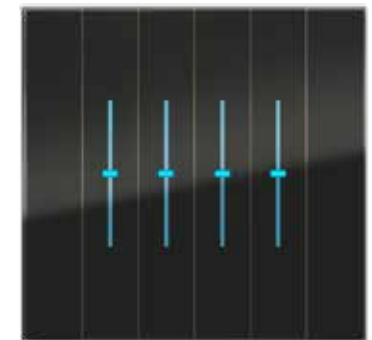
Square glass keypad, grey, on black base, 8 functions

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



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

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



CAPACITIVE THERMOSTATS

Glass Vertical

Square glass thermostat, on white base 4 functions

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



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

Model	Cod. Cover	Cod. Electronics
square	BX-F-QQGV	BX-E-QTU



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

Model	Cod. Cover	Cod. Electronics
square	BX-F-QQBV	BX-E-QTU



QUBIK

Capacitive Thermostats Glass Button



CAPACITIVE THERMOSTATS Glass Button

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

Model	Cod. Cover	Cod. Electronics Temp.	Cod. Electronics Temp/Humidity	Cod. Electronics 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

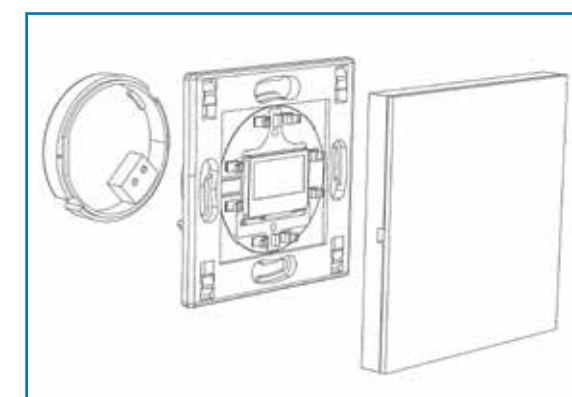
KNX thermostat in square/rectangular black/white glass

	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 from the 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 in round, rectangular or square boxes
- 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
- CO₂ probe: 400-5000 ppm range, with TVOC and IAQ concentration measurement



QUBIK

Capacitive Thermostats Glass Marble



CAPACITIVE THERMOSTATS

Glass Marble

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

programmable functions

	Model	Cod Cover	Cod. Electronics Temp.	Cod. Electronics Temp/Humidity	Cod. Electronics 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

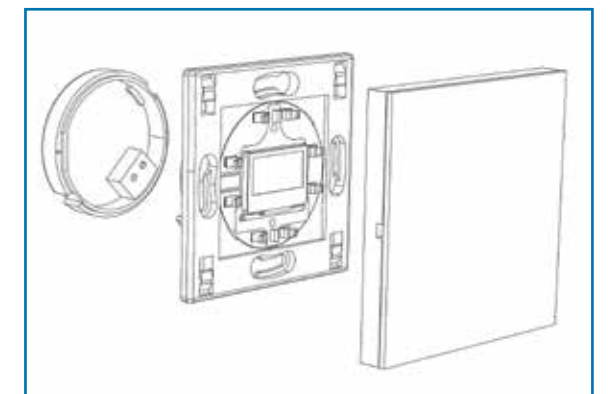
Marble-effect glass square/rectangular
black/white KNX thermostat

	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 from the 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 in round, rectangular or square boxes
- 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
- CO₂ probe: 400-5000 ppm range, with TVOC and IAQ concentration measurement



NEW
PRODUCT



Numeric Keypad for Access Control



The numeric keypad doory with KNX secure system

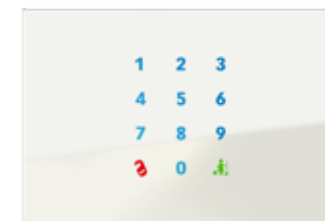
Doory is a smart numeric keypad that serves as an access control system. The doory numeric keypad is a glass KNX touch device, backlit and equipped with a proximity sensor. It is particularly suitable for hospitality establishments, as the glass can be customised with a room number and standard functions, typical of hotel services (do not disturb, make up room). The keypad manages 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. Electronics
horizontal white	BX-F-R12OWH	BX-E-R12OH
horizontal black	BX-F-R12OBH	BX-E-R12OH



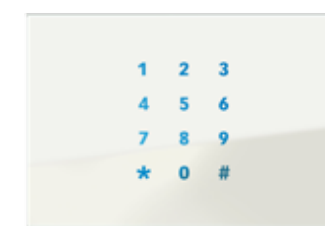
vertical white	BX-F-R12VWH	BX-E-R12VH
vertical black	BX-F-R12VBH	BX-E-R12VH

* 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. Electronics
horizontal white	BX-F-R12OWS	BX-E-R12OS
horizontal black	BX-F-R12OBS	BX-E-R12OS



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



Panel Control Hotel Room

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 commercial 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 in round, square, and rectangular boxes
- 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

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



Model	Cod. Cover	Cod. Electronics
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



Numeric Keypad with RFID reader for Access Control

Doory plus - Numeric keypad with RFID

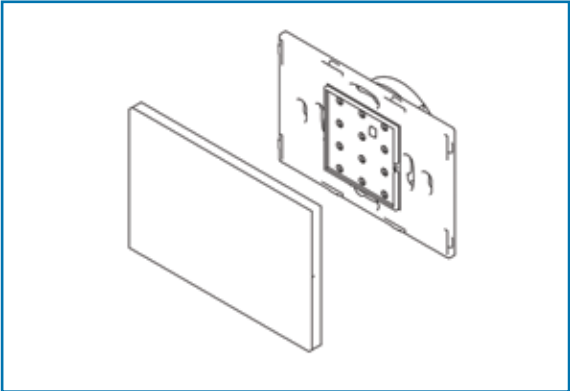
Doory plus is an intelligent numeric keypad featuring a built-in RFID card reader, designed to function as a complete access control system. Doory plus keypad is a KNX touch glass device, backlit and equipped with a proximity sensor. It is particularly suitable for hospitality environments, as the glass surface can be customized with the room number and standard hotel service functions, such as "Do Not Disturb" and "Make Up Room."

Technical Features

- Power supply via KNX bus: 21–32 Vdc./ Current consumption < 30 mA.
- Auxiliary power supply: 20–30 Vdc.
- Keypad and RFID glass finishes: white, black, or custom — housing in high-quality plastic.
- Keys: digits 0–9 plus command keys # and * or "Do Not Disturb" and "Make Up Room" symbols (hotel version).
- Backlit keys for clear visibility in all lighting conditions.
- Proximity sensor for automatic activation.
- Flush wall mounting on round, square, or rectangular boxes.
- KNX firmware supporting numeric codes of 4 or 6 digits.
- RFID technology: 13.56 MHz.
- Operating temperature: -5 ÷ +45 °C (indoor use).
- KNX bus connection via terminal block.
- Auxiliary power connection via terminal block.

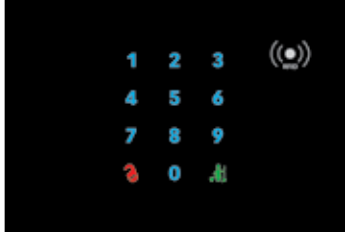
The keypad allows room access management via numeric code and/or RFID card. The numeric and RFID access control system can be fully integrated with the BX-NEMO BMS software, which interfaces with the main hotel management systems (PMS) available on the market. This integration enables centralized supervision and management of all hotel systems and access points from a smartphone, tablet, or traditional PC, ensuring complete control and operational efficiency.

- Protection rating: IP20 (installed).
- Dimensions: 120 x 80 mm / Thickness 8 mm.
- Front programming button and PRG LED indicator.

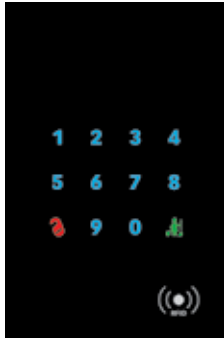
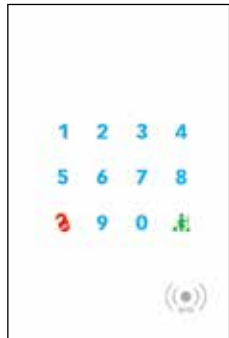


doory plus Numeric keypad with RFID

KNX glass keypad for access control, horizontal/vertical in white/black color with customizable hotel design



Model	Cod. Cover	Cod. Electronics
horizontal white	BX-F-R120WHRF	BX-E-R12SRFH
horizontal black	BX-F-R120BHRF	BX-E-R12SRFH



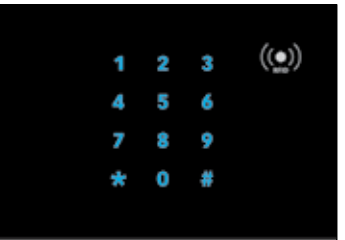
vertical white	BX-F-R12VWHRF	BX-E-R12SRFH
vertical black	BX-F-R12VBHRF	BX-E-R12SRFH

*

Keypad with doorbell configuration

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

KNX glass keypad for access control, horizontal/vertical in white/black color



Model	Cod. Cover	Cod. Electronics
horizontal white	BX-F-R120WSRF	BX-E-R12SRFS
horizontal black	BX-F-R120BSRF	BX-E-R12SRFS



vertical white	BX-F-R12VWSRF	BX-E-R12SRFS
vertical black	BX-F-R12VBSRF	BX-E-R12SRFS



RFID keypad

The **RFID keypad** is an **intelligent KNX device** that functions as a **complete access control system**. This **backlit touch glass device** also features a **proximity sensor** for automatic activation.

It is particularly suitable for **hospitality environments**, as the glass surface can be **customized** with the **room number** and **standard hotel service functions**, such as **"Do Not Disturb"** and **"Make Up Room."**

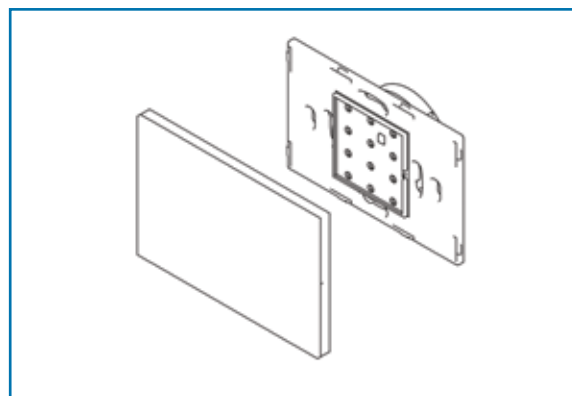
Technical Features

- Power supply via KNX bus: 21–32 Vdc / Current consumption < 30 mA
- Auxiliary power supply: 20–30 Vdc
- Glass finishes: white, black, or custom / Housing in high-quality plastic
- Customizable symbols: "Do Not Disturb" and "Make Up Room" (hotel version)
- Backlit touch surface
- Proximity sensor
- Flush wall mounting on round, square, or rectangular boxes
- RFID technology: 13.56 MHz
- Operating temperature: -5 ÷ +45 °C (indoor use)
- KNX bus connection via terminal block
- Auxiliary power connection via terminal block
- Protection rating: IP20 (installed)
- Dimensions: 120 × 80 mm / Thickness 8 mm
- Front programming button and PRG LED indicator

The keypad manages **room access** through **RFID card technology**.

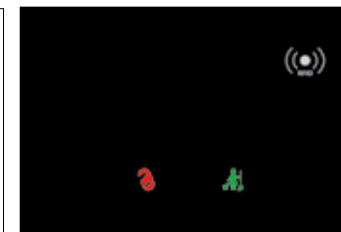
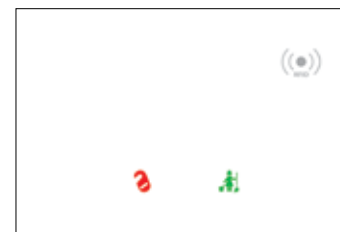
The **RFID access control system** can be fully integrated with the **BX-NEMO BMS software**, which interfaces with the **main hotel management systems (PMS)** available on the market.

This integration enables **supervision and centralized management** of all hotel systems and access points from a **smartphone, tablet, or traditional PC**, ensuring complete control and operational efficiency.

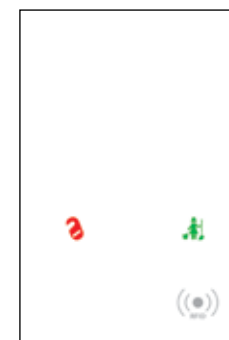


RFID KEYPADS

KNX glass keypad for access control, horizontal/vertical in white/black color with customizable hotel design



Model	Cod. Cover	Cod. Electronics
horizontal white	BX-F-ROWHRF	BX-E-RSRFH
horizontal black	BX-F-ROBHRF	BX-E-RSRFH



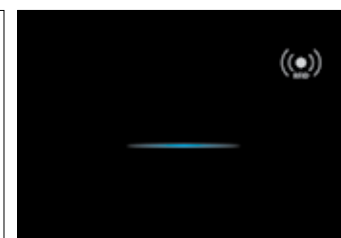
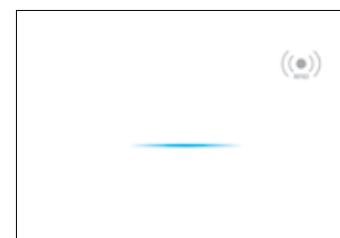
vertical white	BX-F-RVWHRF	BX-E-RSRFH
vertical black	BX-F-RVBHRF	BX-E-RSRFH

Keypad with doorbell configuration

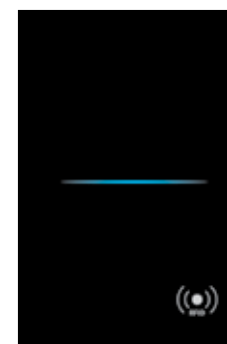


On request, it is customisable with room number, various colours and logos.

KNX glass keypad for access control, horizontal/vertical in white/black color



Model	Cod. Cover	Cod. Electronics
horizontal white	BX-F-ROWRF	BX-E-RSRFS
horizontal black	BX-F-ROBRF	BX-E-RSRFS



vertical white	BX-F-RVWRF	BX-E-RSRFS
vertical black	BX-F-RVBRF	BX-E-RSRFS

Room management solution

Blumotix solutions make it possible to meet all the needs of a modern and functional accommodation facility. Room management offers the guests high security, maximum comfort and great ease of use. The hotel manager benefits from increased energy efficiency to contain management costs by having control over every room and facility from a centralized location, thanks to the supervision software.



Air conditioning

Accurate control of temperature, humidity and air quality ensures guests' comfort in all conditions, while also allowing them the freedom to set individual preferences. If the room is unoccupied, coordination with access control prevents any waste of energy.



Access control

Advanced and high-performance access control makes life easier for guests. A touch keypad of immediate understanding and exquisite aesthetic and appearance manages access control and presence detection in each room. In addition, it offers intelligent logic for the automatic management of room utilities.



Lighting

Individual control of luminaires and the recall of pre-set scenarios create a welcoming lighting atmosphere for a pleasant and relaxing living experience.

There is no need to worry if some device remains on: when the guest leaves the room, the presence detection of the access control allows to automatically turn off the lights.



Shading

Whether it's curtains, shutters or blinds, with a simple gesture you can always get the preferred setting.

To safeguard privacy, prevent glare or simply avoid the overheating of the room on hot summer days.

The controls

In order to manage various functions and to control the climate, Blumotix provides numerous options in order to fulfil all requirements and to combine the advantages of technology with the aesthetic preferences of the owner and the interior designer. The keyword is: maximum freedom of choice.

Several Blumotix collections with touch control and glass finish represent the ideal solution when you prefer to choose devices that communicate natively with the KNX standard.

The formal variety (rectangular or square) of controls makes it possible to find the optimal product for any setting, regardless of the particular predisposition for wall installation.

Numerous customization possibilities allow an exclusive interior design: from the type and layout of icons to the characteristic logo of the accommodation.

On request, it is even possible to customize the glass finish in the color chosen by the customer.

On the other hand, if traditional controls are preferred, Blumotix devices allow the acquisition of signals and integrate them in a simple and convenient way with the rest of the KNX system.

This can be the case of a renovation: where there is the need to minimize the invasiveness of the intervention, or to make a precise aesthetic choice to harmonize the controls with the furniture and finishes of the rooms.

If an elegant compact solution is preferred, the touch room controller Kronos4 integrates all the functions of room control in one device. Simple, intuitive and easy to read, it adapts flexibly to the different environments thanks to freely programmable graphic pages. Proximity detection increases its intelligence, extending its possible applications.

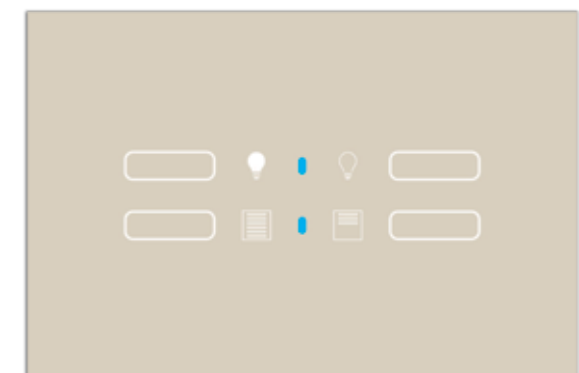
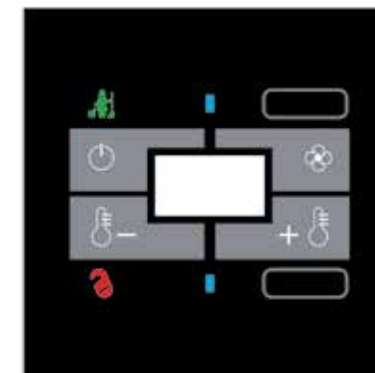
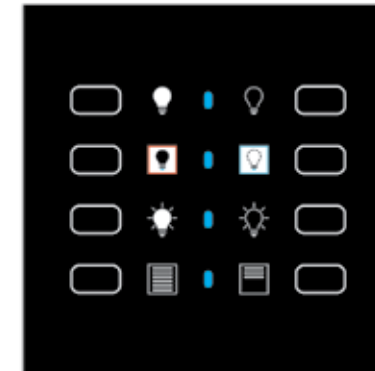
Customizations



CAPACITIVE KEYPADS AND THERMOSTATS

Glass Icon - C

The **Qubik Glass – Icon** line of **keypads and thermostats** can be **customized** in both the **layout** and the **choice of icons** printed on the glass.
Below are some examples of possible customizations. Please note that the **glass colors** for the entire **Qubik Collection** are available as **standard in white and black**, but can also be **customized upon customer request**.



Below is the **series of standard icons** available for **glass customization**:



Blumotix allows the **customization of icons** using **customer-provided custom designs**, as long as they are supplied in a **compatible graphic format**.

Customizations

Discover the Revolution of Customization with Blumotix!

Our new digital printing division offers an unprecedented level of personalization for user interface devices, including our innovative lines: Qubik, Doory for access control and RFID devices.



What Can We Do for You?

- Tailor-Made Colors: Choose from a wide range of glass and plastic colors.
- Custom Icons and Logos: Define your unique style for every device.
- Total Flexibility: No minimum order quantities — customization perfectly suited to architects' needs.

Our ultra-high-resolution printing delivers extraordinary images, ensuring that each device reflects not only its function but also your design style.

Installation in perfect harmony: thanks to magnetic mounting, our devices integrate perfectly into any environment, blending elegantly into the wall for a clean and minimalist look.

Transform your space with Blumotix!



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 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

SYSTEM COMPONENTS

Power supplies

BX-PS640 BX-PS640UL BX-PS1280



DESCRIPTION

BX-PS1280, BX-PS640 (CE certified), and BX-PS640UL (CE and UL certified) are KNX power supplies providing output currents of 1280 mA and 640 mA respectively. They feature high efficiency and compact design. All models are equipped with protection against overloads, short circuits and output overvoltage. The devices include one KNX output with a choke and an additional auxiliary power output. Diagnostic LEDs indicate normal operation status, overload and overvoltage conditions and RESET status.

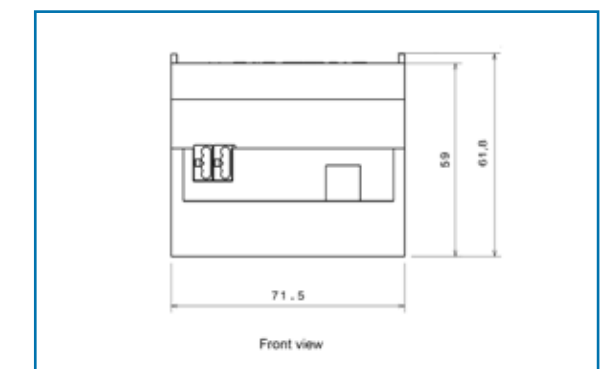
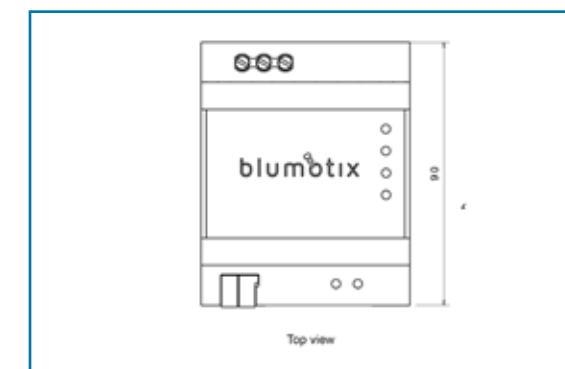
TECHNICAL DATA – BX-PS640 (CE certified) and BX-PS640UL (CE and UL certified)

- Input voltage: 100 ÷ 240 V AC, 50/60 Hz
- Input current: 0.25 A at 230 V AC
- Operating temperature: -5 °C ÷ +45 °C (indoor use)
- KNX bus connection: 2-pole plug-in terminal (d = 0.8 mm)
- Electrical connections: screw terminal, max cable section 2.5 mm²
- Protection rating: IP20
- Dimensions: 4 DIN modules
- Type: Power supply units

TECHNICAL DATA – BX-PS1280

- Input voltage: 200 ÷ 240 V AC, 50/60 Hz
- Input current: 0.5 A at 230 V AC
- Operating temperature: -5 °C ÷ +45 °C (indoor use)
- KNX bus connection: 2-pole plug-in terminal (d = 0.8 mm)
- Electrical connections: screw terminal, max cable section 2.5 mm²
- Protection rating: IP20
- Dimensions: 4 DIN modules

DIMENSIONS



Power Supply BX-PW15 BX-PW15-24

General purpose 12V/15W

DESCRIPTION

Designed specifically for powering Touch Panels, this device is particularly suitable for Kairos 27, Theo 10, and Kronos 4 models. The power supply operates with input voltages ranging from 100 to 240 V AC.



TECHNICAL DATA

- Input voltage: 100 ÷ 240 V AC, 50/60 Hz
- Output voltage: 12 V DC (BX-PW15), 24 V DC (BX-PW15-24)
- Maximum power: 15 W
- Insulation: Class II
- Operating temperature: -5 ÷ +45 °C (indoor use)
- Operating humidity: max. 93% (non-condensing)
- Electrical connections: screw terminal, max cable section 2.5 mm²
- Protection rating: IP30

IP/KNX Secure Interface BX-IP02



DESCRIPTION

Interface device between a KNX line and an IP (Internet Protocol) network. BX-IP02 is the ideal KNX secure interface for programming the system with ETS via an active network connection on your PC (EIBnet/IP standard Tunneling). It supports the latest KNX Secure technology. The IP address of the interface can be assigned manually through ETS or automatically if a DHCP service is active on the network.

BX-IP02 features an RJ45 connector for IP connection, a standard KNX connector (2 x 0.8 mm) for bus line connection, and a third connector (2 x 0.8 mm) for auxiliary power supply (12–24 V DC).

TECHNICAL DATA

- Ethernet interface: 10 Mb
- Supported protocols: ARP – ICMP – IGMP – UDP/ IP – DHCP – EIBnet/IP compliant with KNX: Core, Tunneling, Device Management
- Operating temperature: -5 ÷ +45 °C (indoor use)

Line coupler BX-LC02

DESCRIPTION

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



USB interface BX-DINUSB

DESCRIPTION

BX-DINUSB is a DIN-rail mounted KNX interface for bidirectional KNX/USB communication, allowing connection to a bus line from a PC. The USB connection is galvanically isolated from the KNX bus. It is ideal for use with ETS software, both during programming and for data monitoring sessions.



TECHNICAL DATA

- Connection of the PC to KNX systems
- Addressing, programming, and diagnostics of KNX devices
- Compatible with KNX Data Secure products
- Fast application download (supports Long Frame from ETS5 onwards)
- Compatible with ETS4, ETS5 (and later versions)

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 mm²
- 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 bus 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 ballast 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.

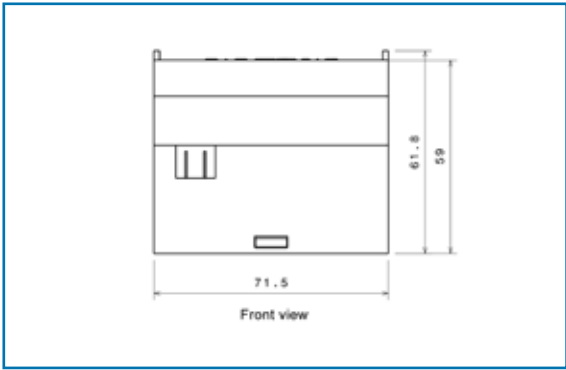
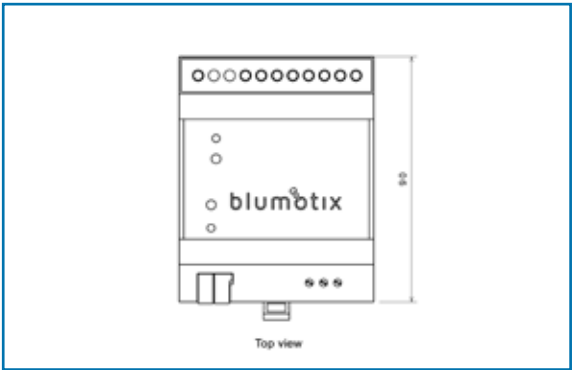
TECHNICAL DATA

- 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 mm²
- Degree of protection: IP 20
- Dimensions: 4 DIN modules



DCA
Graphic interface app for programming, compatible with ETS software.

DIMENSIONS



Gateway BX-DALIPRO2



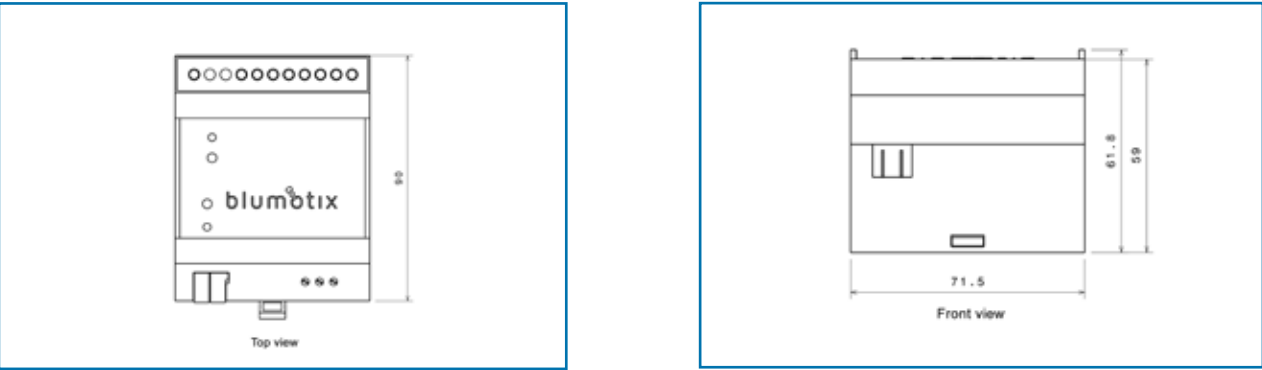
DESCRIPTION

BX-DALIPRO2 DALI gateway for KNX serves as the interface between a KNX system and a DALI digital lighting installation. The gateway allows switching and dimming of DALI control gear within a DALI system. The device is equipped with two completely independent channels, making it possible to manage two separate DALI buses. Depending on the configuration, up to 32 independent DALI groups (16 per channel) are available for group addressing. These groups can include up to 64 individually addressable DALI devices per DALI channel for precise and distinct control. A centralized control option (broadcast) is also available for all connected DALI components. In this case, no DALI commissioning is required, allowing lighting systems with low functional requirements to become operational quickly and easily.

KNX FUNCTIONS

- DALI-2 certified
- Control of up to 2 x 64 DALI devices in up to 2 x 32 groups
- Integrated DALI power supply
- Color temperature or light color (RGB, RGBW) adjustment for DALI Type 8 luminaires according to IEC 62386-209
- Protected against short circuit, overload, and overvoltage
- Operating hours counter for individual lamps
- Automatic sweep of color wheel or brightness
- HCL mode (Human Centric Lighting): automatic daylight color temperature curve
- CT mode (Color Transition): automatic daily color gradient
- Addressing options: individual, group, or broadcast commands
- 16 lighting scenes per DALI channel
- Status feedback of DALI devices via KNX (e.g., brightness level or fault detection on fixtures)
- Manual control of DALI groups, individual devices, or broadcast mode — separately for each DALI system, also via front panel buttons
- DCA for DALI configuration via ETS software (Blumotix KNX Gateway DALI-2 DCA) – free of charge
- Firmware update application via ETS software (Blumotix App FWU) – free of charge
- Suitable for DC operation with emergency lighting systems (many emergency lighting systems are designed to operate on direct current, often supplied by internal batteries or dedicated emergency power units, allowing them to continue functioning during mains power outages)

DIMENSIONS



Differences Between the Available Functions

Color Transition Mode (CTM)

- In RGB or RGBW lighting systems, the Color Transition Mode (CTM) allows for flexible and creative control of color changes, enabling atmospheric and visual effects.
- Smooth and gradual modification of light color
 - Adjustable color transition speed
 - Particularly suitable for commercial and decorative lighting systems (restaurants, hotels, clubs, or stage lighting)
 - Four freely configurable CTM matrices can be activated and switched depending on the time of day and day of the week to create different color sequences
 - Each matrix allows individual setting of predefined color values, with or without brightness adjustment
 - Automatic control of color cycles and brightness modulation

Tunable White Function (DALI Device Type 8 – TW)

- The DALI Color Gateway for KNX supports the control of DALI power units of the “Tunable White” type. With the Tunable White function, it is possible to flexibly adjust the color temperature of the light — from warm white to cool white.
- The color temperature can be controlled via relative or absolute adjustment functions, as well as through scenes
 - Cool white light can be used, for example, in offices to enhance concentration
 - Warm white light is ideal for residential spaces to create a relaxing atmosphere

Human Centric Lighting (HCL) Function

- The Human Centric Lighting (HCL) technology can be used to simulate the natural progression of daylight color temperature, implementing biologically effective lighting.
- Independent control of color temperature for each group and individual fixture via separate communication objects for brightness control
 - Alternatively, color control can be managed per channel
 - Lighting scenes can be activated with a simple button press and dynamically adjusted throughout the day
 - Designed to enhance well-being and health through adaptive lighting
 - Up to four freely configurable HCL matrices are available, adjustable in terms of brightness and color temperature, which can be activated or switched according to time of day and day of the week
 - Suitable for a wide range of applications: offices, hotels, schools, hospitals, residential spaces, and more.

TECHNICAL DATA

KNX

- Medium: KNX TP256
- Commissioning mode: KNX S-Mode
- Rated voltage: KNX DC 21 ... 32 V SELV
- Current consumption: KNX 4.5 ... 5.0 mA
- Connection type: Bus terminal

Power Supply

- Rated voltage: AC 110 ... 240 V ~
- Mains frequency: 50 / 60 Hz
- Power dissipation: max. 3 W

DALI

- Rated DALI voltage: DC 16 V (typ.)
- Output current per channel: typ. 128 mA, max. 250 mA
- Bus current per DALI system: 148 mA
- Addressable DALI control gear: max. 64 x 2CH DALI
- Addressable DALI sensors: max. 32 x 2CH DALI
- DALI protocol: EN 62386
- Ambient temperature: -5 ... +45 °C
- Connection type: Terminal block

Universal Dimmer BX-DUNIV



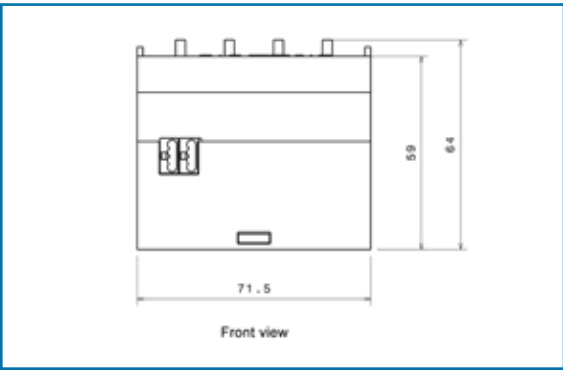
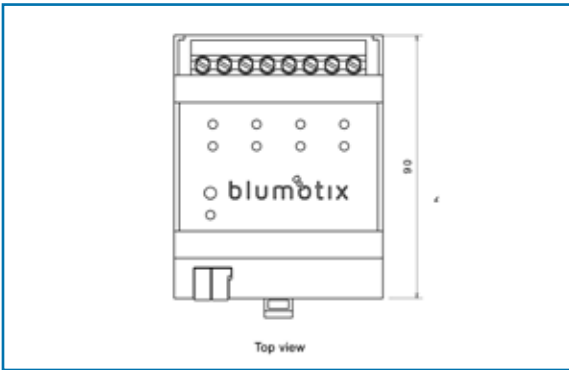
DESCRIPTION

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 mm²
- 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.

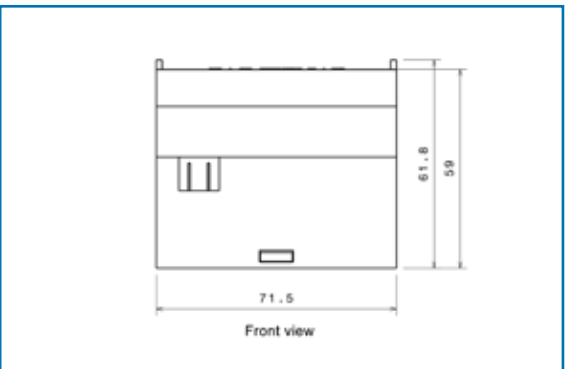
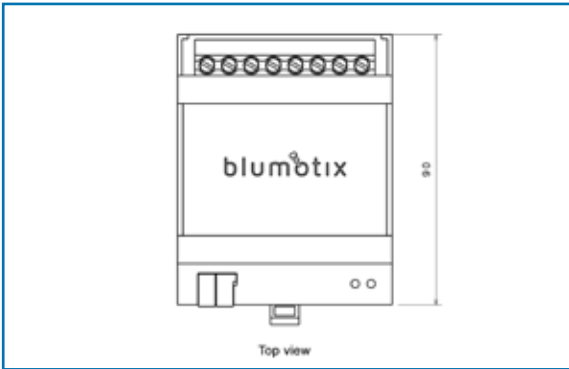
TECHNICAL DATA

- 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



Contact interfaces 8 channels with Led BX-T8XIOl



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 press
- 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

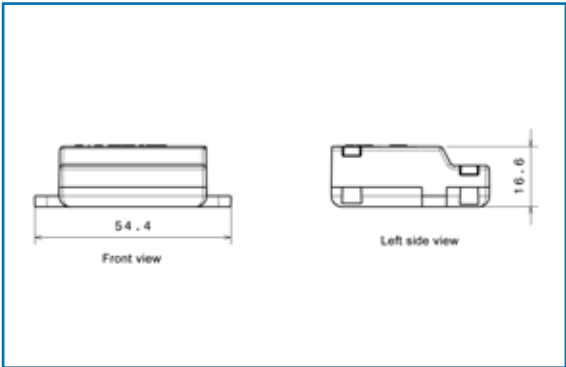
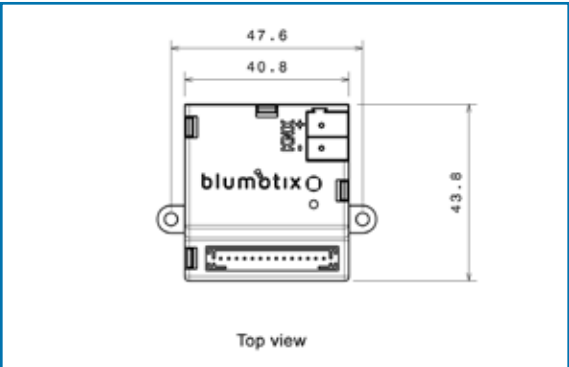
TECHNICAL DATA

- 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



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

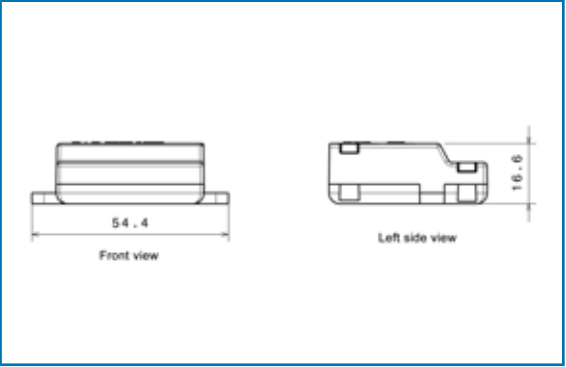
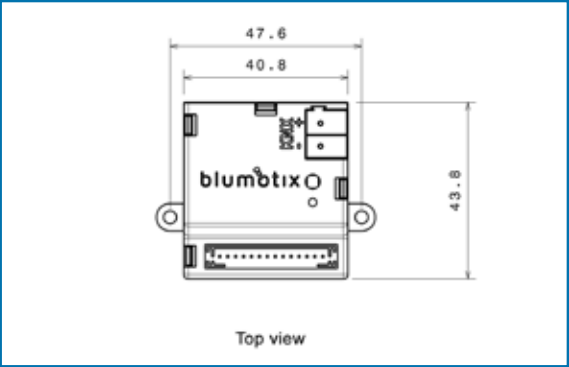
TECHNICAL DATA

- 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

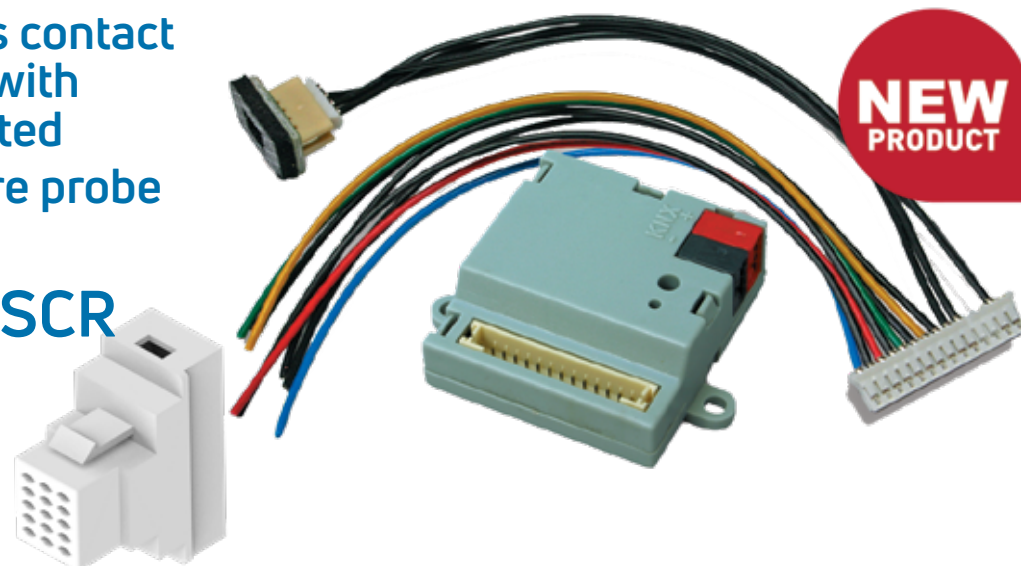
OUTPUTS

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

DIMENSIONS



6-channels contact interfaces with flushmounted temperature probe BX-TE2 BX-TE2-SCR



DESCRIPTION

BX-TE2 is a KNX pushbutton interface device with 6 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-TE2-SCR differs from BX-TE2 in that it includes the Keystone installation accessory. The accessory is not sold individually.

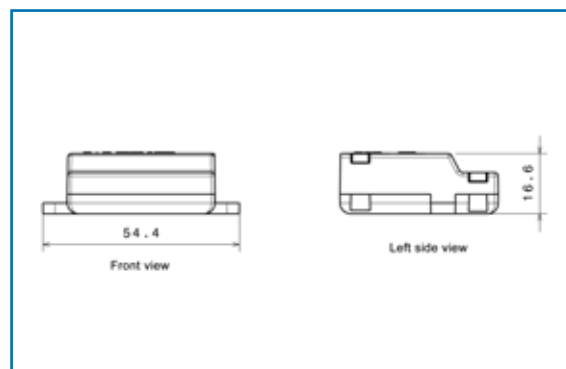
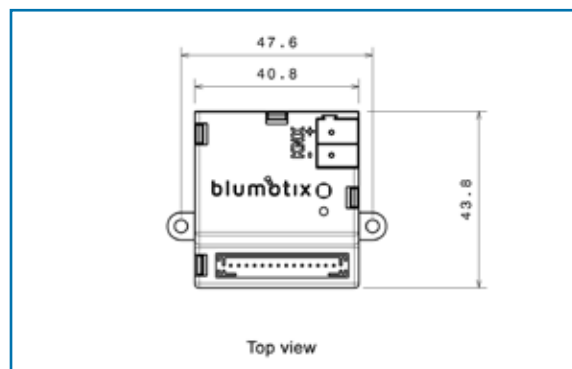
KNX FUNCTIONS

- 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

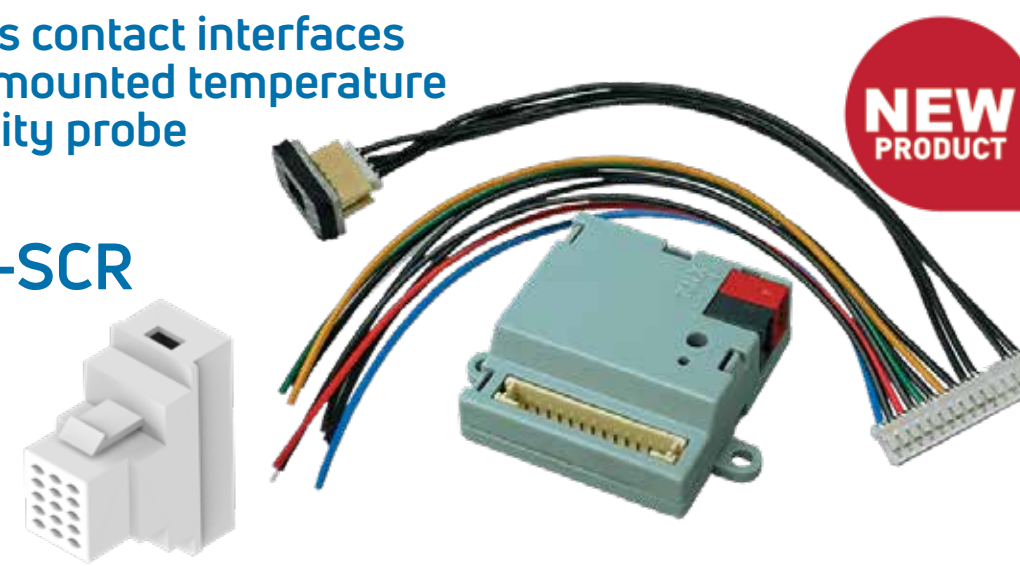
TECHNICAL DATA

- Power supply: via KNX bus 29 V DC SELV
- Power consumption: 0,25 W
- Operating Temperature: $-5 \div +45$ °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



6-channels contact interfaces with flushmounted temperature and humidity probe BX-TU2 BX-TU2-SCR



DESCRIPTION

BX-TU2 is a KNX pushbutton interface device with 6 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-TU2 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-TU2-SCR differs from BX-TU2 in that it includes the Keystone installation accessory. The accessory is not sold individually.

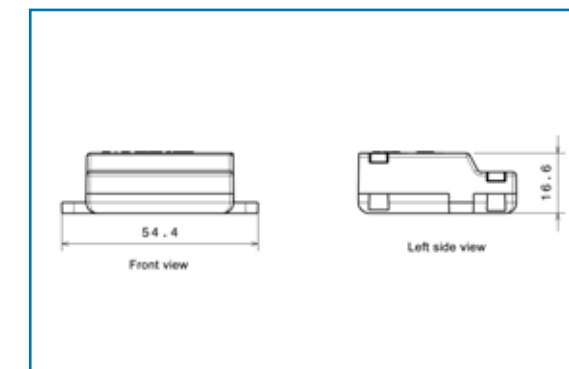
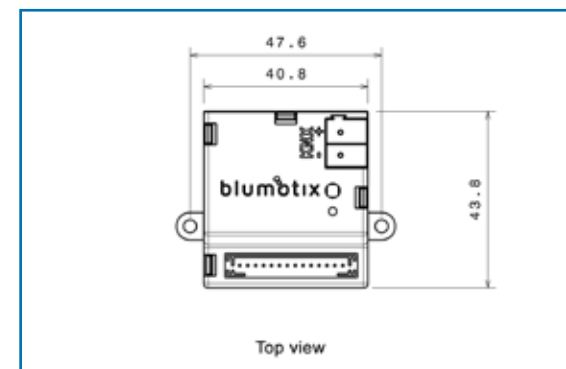
KNX FUNCTIONS

- 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: $-5 \div +45$ °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-channels 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 configuration of the device allows the control of equipment intended for air quality improvement (mechanical ventilations).

KNX FUNCTIONS

- Switching closing/opening contact
- Switching short/long press
- 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

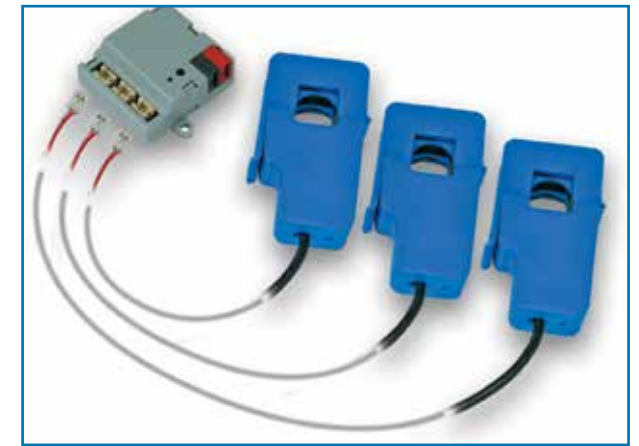
TECHNICAL DATA

- 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): 3.3V DC
- Output signals (3mm LED): 3.3V DC - 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 includes the Keystone installation accessory. The accessory is not sold individually.

DIMENSIONS See Page 76

Current meter BX-ES03 with optional current clamp BX-TA01 (Codes distributed separately)



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/motion detection and weather stations

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.

BX-514-01 - BX-514-03

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 is 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 thermostating, 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.



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

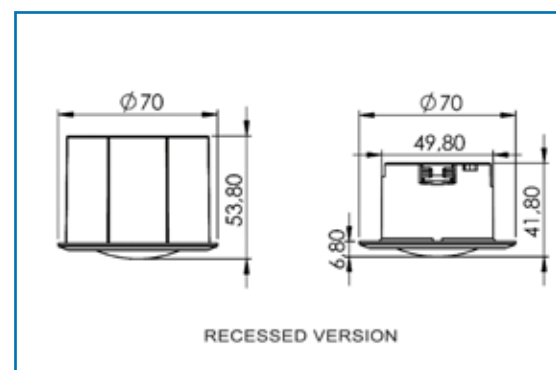
It supports presence detection, brightness detection, motion detection, indoor and outdoor temperature detection. The presence detection, based on passive infrared sensor, has 1 channel independently configurable with constant light switch and constant light control application. There are 5 logic blocks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

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 covers 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.



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 configuration 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

KNX Weather Station

BX-9024-01

KNX weather station powered at 24V with wind, rain, brightness, and outdoor temperature sensors.

BX-9023-01

KNX weather station powered at 230V with wind, rain, brightness, and outdoor temperature sensors.



DESCRIPTION

BX-9024-01 and BX-9023-01 weather stations measure temperature, brightness from three directions, and wind speed. Additionally, a rain sensor (rain/no rain) is installed on the upper part of the device. The measured values and rain status can be transmitted via the bus.

The weather station includes the following channel types:

- 10 universal channels for wind, rain, temperature, and brightness
- 8 sun protection channels with sun position tracking
- 4 threshold value channels (percentage, EIS5, 8- and 16-bit values)
- 6 logic channels (AND, OR, XOR)

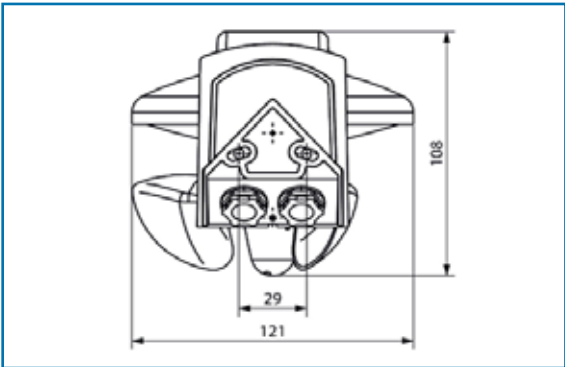
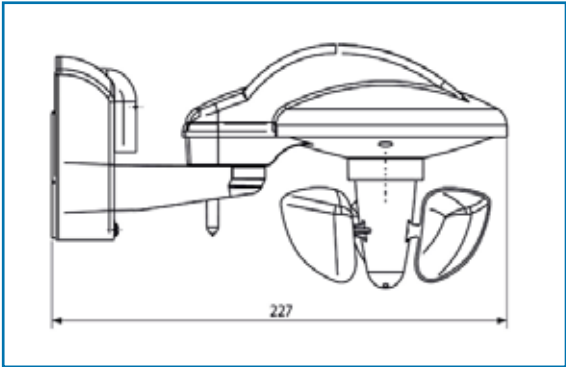
KNX FUNCTIONS

- Automatic adjustment of slat position based on the sun's current position
- Sun protection area adjustable horizontally (azimuth) and vertically (elevation) with degree-level precision
- 3 built-in brightness sensors spaced 90° apart
- 2 objects available for external brightness sensors
- Shading can be temporarily interrupted per object
- Universal channels with logical AND/OR connection of weather data
- Threshold channels with delay for exceeding or falling below limits
- Logic channels with 4 input objects + internal connection configurable with the state of universal and threshold channels

TECHNICAL DATA

- Operating voltage: 15 – 34 V DC
- Operating KNX voltage: bus voltage, ≤10 mA
- Power consumption: <0.5 W
- Mounting type: Wall-mounted
- Brightness measurement range: 1 – 100,000 lx
- Temperature setting range: -30°C ... +60°C
- Wind speed measurement range: 2 – 30 m/s
- Operating ambient temperature: -20°C ... +55°C
- Protection rating: IP44
- Insulation class: III

DIMENSIONS



Smart Building

ACTUATORS

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

BX-BLD4 BX-BLD6



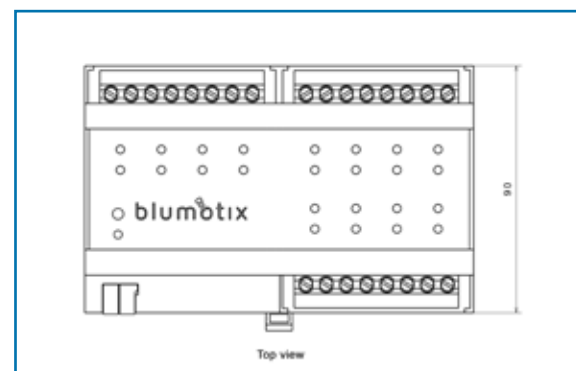
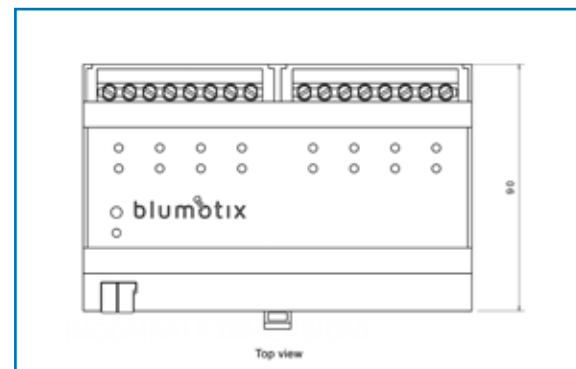
DESCRIPTION

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)

DIMENSIONS

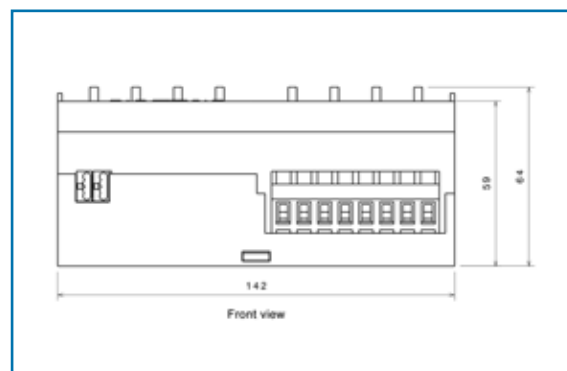


TECHNICAL DATA

- 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

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-channels 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.

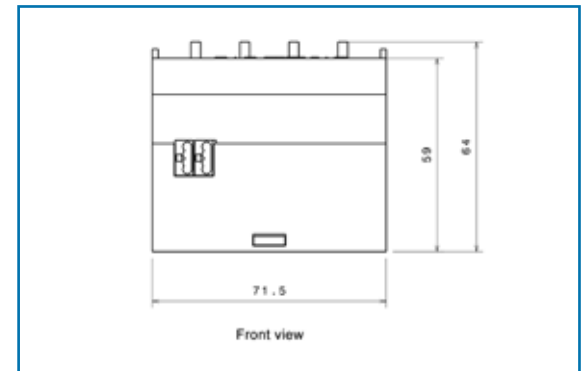
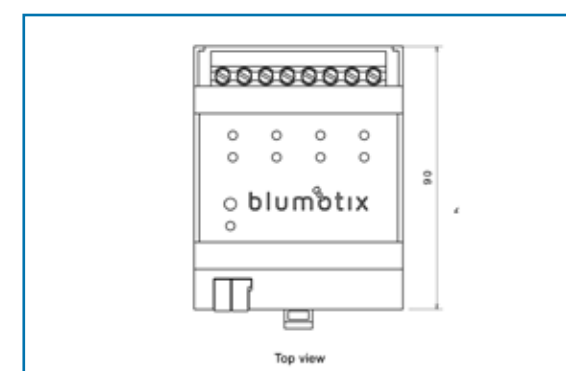
KNX FUNCTIONS

- 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.

DIMENSIONS



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 mm² (AWG10)
- Degree of protection: IP 20
- Dimensions: 4 DIN modules

8-channels and 12-channels multifunctional actuator BX-MFB12 BX-MFB08



DESCRIPTION

BX-MFB12 and BX-MFB08 are 12/8-channels 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

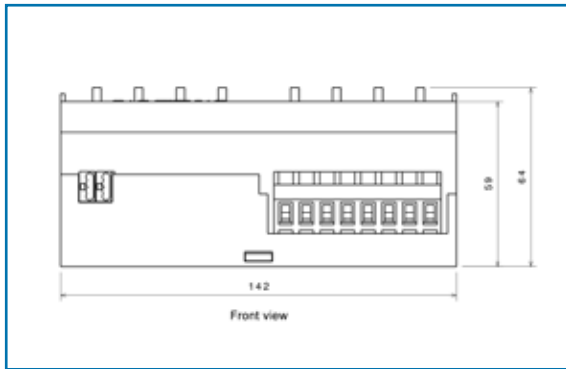
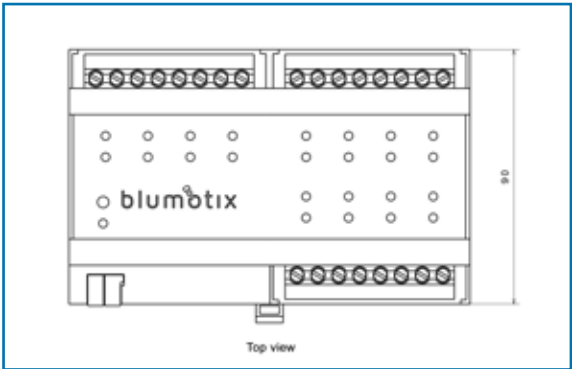
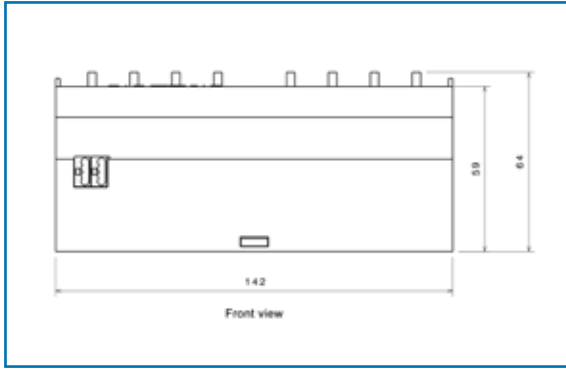
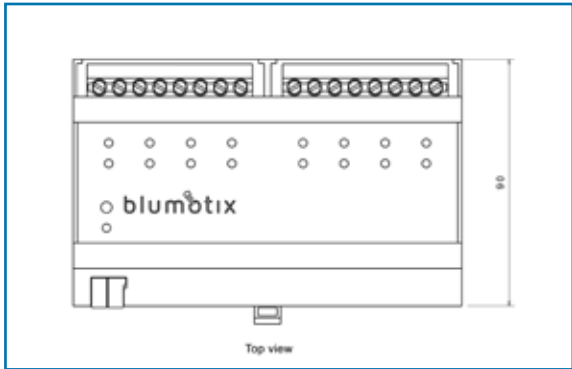
KNX FUNCTIONS

- 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
- Roller shutters and venetians blinds control
- 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
- Contacts rated current: 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-channels multifunctional actuator BX-MFB04



DESCRIPTION

The BX-MFB04 is a 4-channels 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.

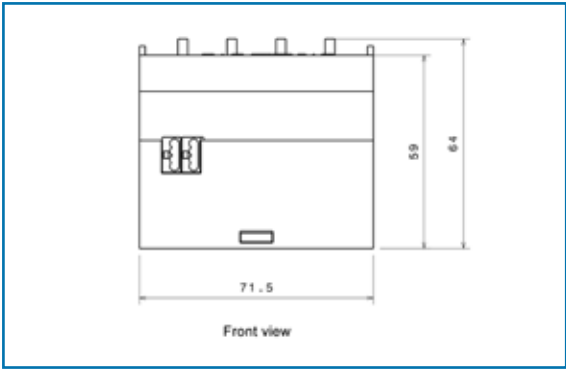
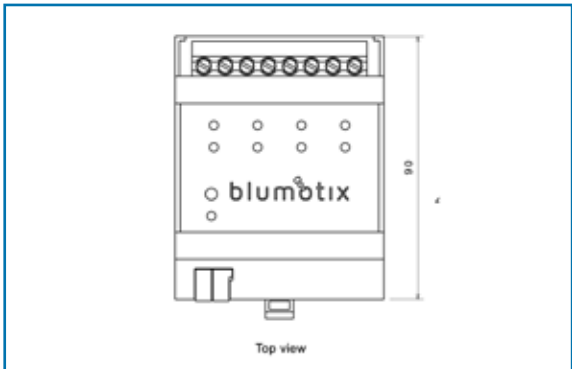
KNX FUNCTIONS

- 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
- Roller shutters and venetians blinds control
- 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
- Contacts rated current: 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 channels combined 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.

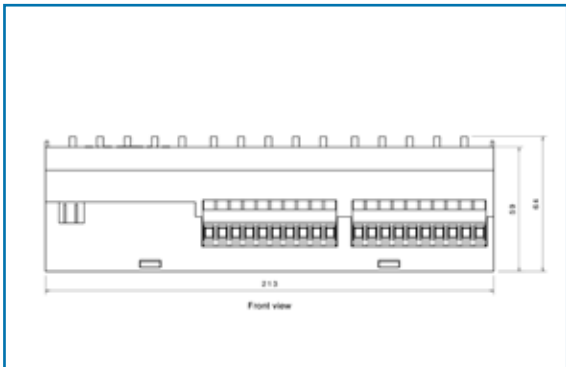
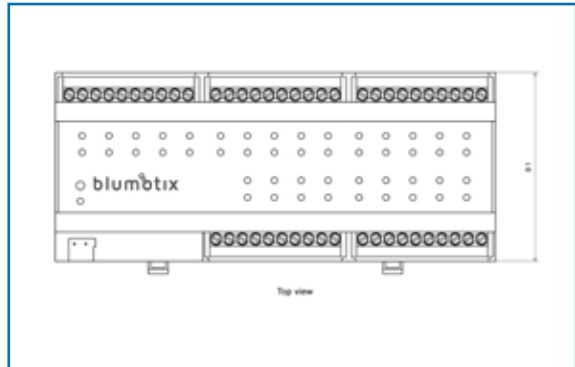
KNX FUNCTIONS

- 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
- Contacts rated current: 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 channels KNX analog actuator BX-DM05



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.

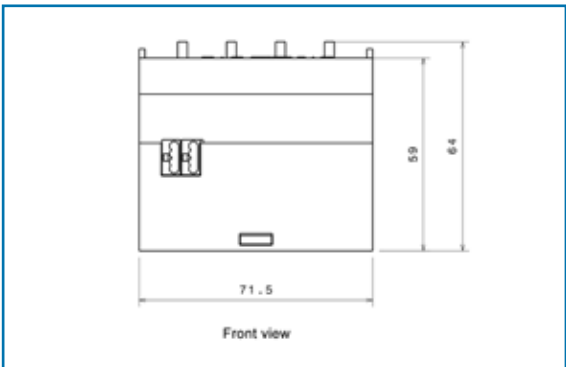
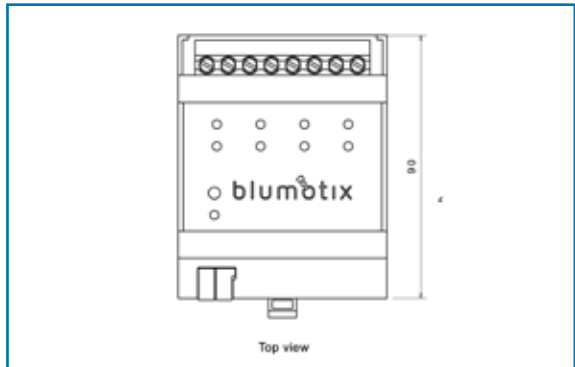
TECHNICAL DATA

- Auxiliary power supply 12 -24 V DC
- Selectable output ranges: 0-1, 0-5, 0-10, 1-10 V DC
- Output current: max 10 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



Multifunction Actuator

BX-R04

4-channels multifunction actuator

BX-R104

4-channels multifunction actuator with digital inputs and 4 lines I/O

DESCRIPTION

BX-R104 and BX-R04 are 4-channel multifunction actuators for DIN-rail mounting, designed for the independent switching of loads via relay contacts. Output switching can also be controlled through push buttons located on the front panel; a green LED indicates the channel status. They are equipped with bistable relays with 16 A contacts connected directly to the terminals, without phase sharing. The screw terminals can accommodate cables with a cross-section of up to 2.5 mm². The relay contacts can withstand inrush currents up to 320 A within the first 2 ms. These devices feature switching functions, status notifications, lock commands, manual overrides, timers, delays, scenes, and also control of shutters, blinds, and valves. The module also includes 4 configurable lines that can operate as inputs (dry contact) or outputs (LED), allowing flexible setup for contact reading or LED driving. It is also possible to configure 4 lines for connecting NTC temperature probes. With these functions, numerous combinations can be configured, optimizing the use of all outputs. BX-R104 and BX-R04 are programmable via ETS software and their versatility makes them ideal for distributed system design.

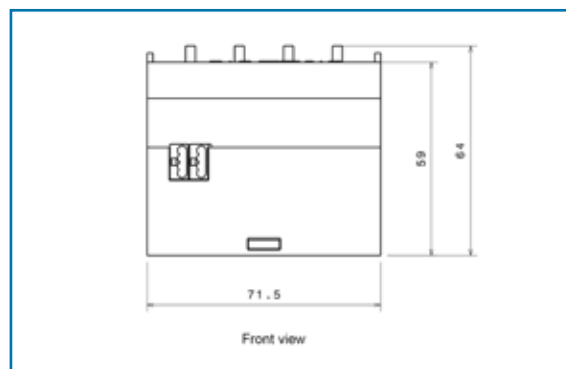
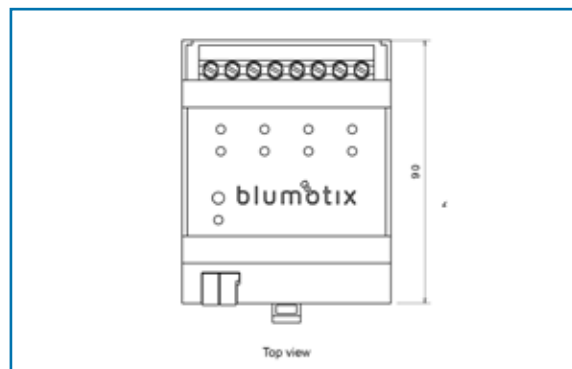
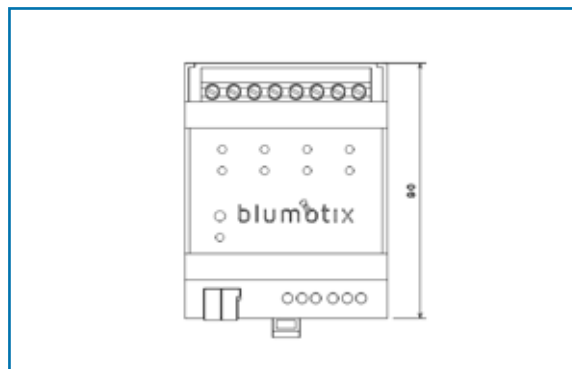
TECHNICAL DATA

- Rated relay contact 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 (indoor use)
- KNX bus connection: 2-pole removable terminal, d = 0.8 mm
- Electrical connections: screw terminal, max. cable section 2.5 mm² (AWG10)
- Protection rating: IP20
- Dimensions: 4 DIN modules

KNX FUNCTIONS

- 4 relay outputs for lighting/general loads with timer, override, lock, and delay functions
- 4 channels for PWM valve control with anti-blocking function
- 2 channels for roller shutter/blind/curtain control
- Fan coil actuator for 2-pipe systems with 1 to 3 speeds (depending on configuration)
- 4 freely configurable inputs (dry contact) or outputs (LED); 4 lines can also be configured as inputs for NTC temperature probes (BX-NTC01)
- Logical functions
- General functions

DIMENSIONS



16/8-channels multifunctional actuator

BX-R016

BX-R08

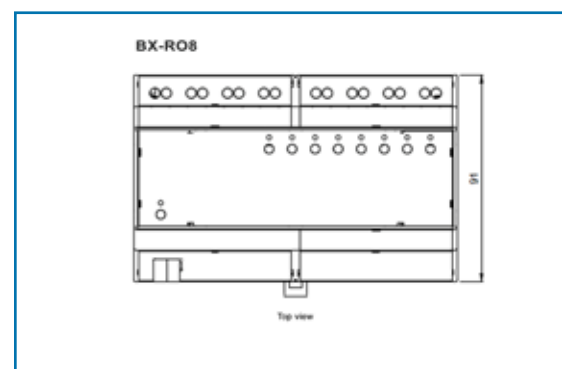
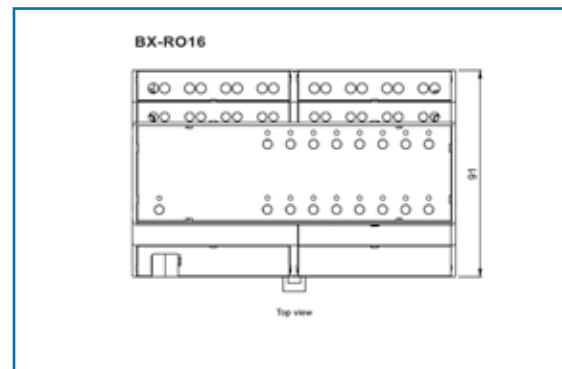
DESCRIPTION

BX-R016 and BX-R08 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-R016 and BX-R08 are configurable 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

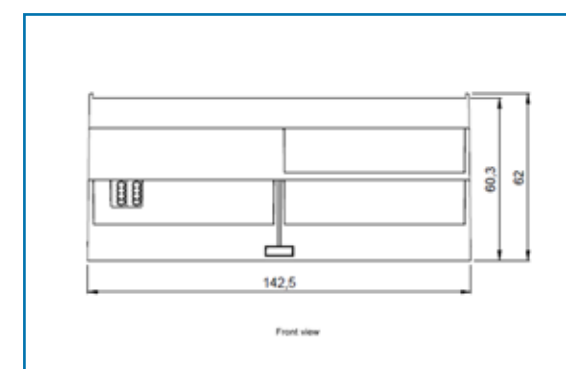
- Rated relay input voltage: 230 V AC, 50/60 Hz
- Rated relay contact current: 16 A
- Power supply: via KNX bus, 29 V DC SELV
- Bus current consumption: max 17 mA
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling terminal, 2 pins, d=0,8 mm
- Electrical connections: 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



24-channels multifunctional actuator BX-R024

DESCRIPTION

The BX-R024 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.

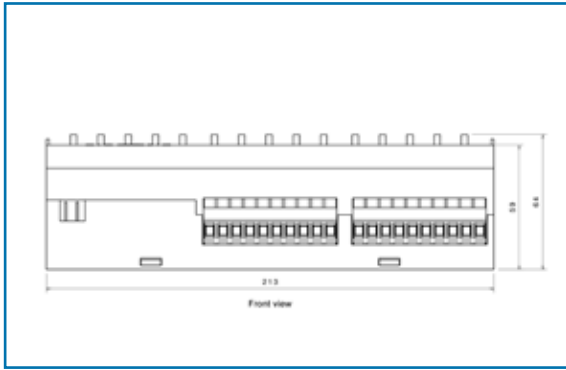
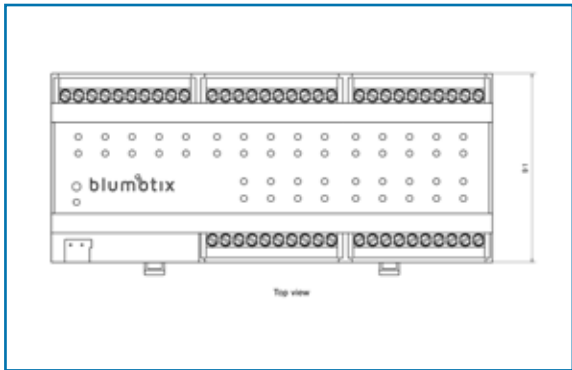
The device provides the switching functions with status notification, lockout command, forcing, timings, delays, scenarios and additional functions to open and close shutters, adjust blinds, control valves with PWM algorithm and drive multiple Fancoil devices (2 or 4 pipes). It also has a set of logic functions consisting of by 16 inputs for each channel and freely configurable (OR, AND, XOR and GATE between channels). The outputs can be configured individually with ETS.

The versatility of this device makes it particularly suitable for distributed design, since all the actuations of an entire residential and commercial building can be implemented with one module only. It is possible to find innumerable combinations 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

DIMENSIONS



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

Multifunctional actuator 16/8 with digital inputs and 16/8 I/O LINES BX-RIO16 BX-RIO8



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.

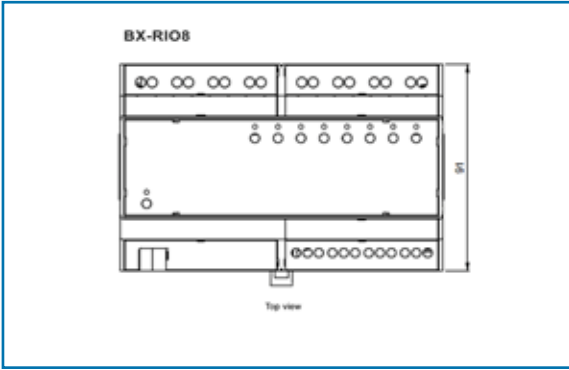
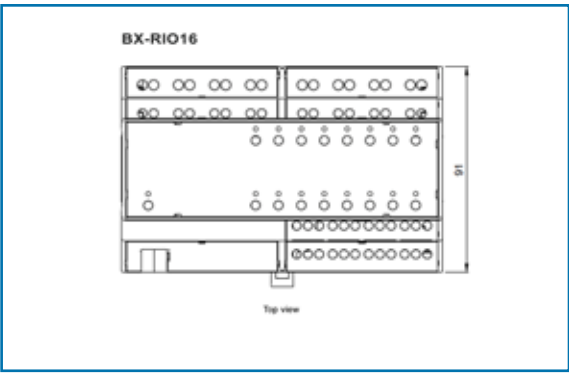
These devices provide switching functions, status notification, lockout command, forcing, timing, delays, scenarios, management of shutters and blinds and valves control. The module also has 16/8 input or output lines freely configurable for reading dry contacts and driving LEDs. It is possible to select 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 configured by the ETS software, and their versatility makes them particularly suitable for distributed designing.

TECHNICAL DATA

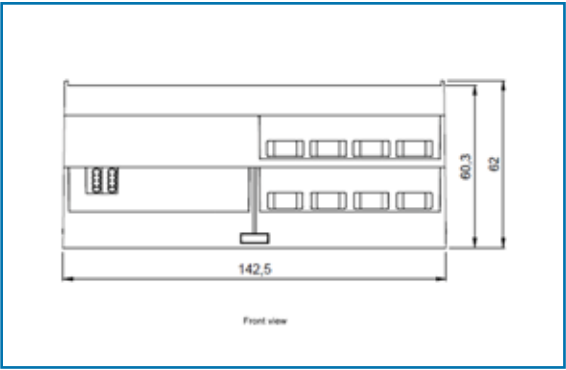
- Rated relay input voltage: 230 V ac, 50/60 Hz
- Rated relay contact current: 16 A
- Power supply: via KNX bus, 29 V dc SELV
- Bus current consumption: max 17 mA
- LED output: 3.3 V, 1 mA
- Dry contact input: 3.3 V
- Operating temperature: -5 ÷ +45 °C (internal use)
- Connection to the KNX BUS: coupling 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



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 perform various functions. It also has an additional input allowing for example the connection of remote temperature probe (NTC).

SWITCH FUNCTIONS

- NC and NO contact operation
- Feed-back function
- Connection 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 1-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 potential free contacts or condensation/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 switching 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
- Connection 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 potential free contacts or condensation/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.



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

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 device. 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.



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 you to control any KNX system in a simple and intuitive way. Made with a sleek design, KRONOS4 has an aluminium frame and a 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) and BX - KRONOS4-BW (black screen and bronze/brown 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"



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-touch capacitive glass allows you to drag and slide the controls to make 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 from the App Store or Google Play.



THEO 10

Touch panel 10,1"

BX-T10



TECHNICAL DATA

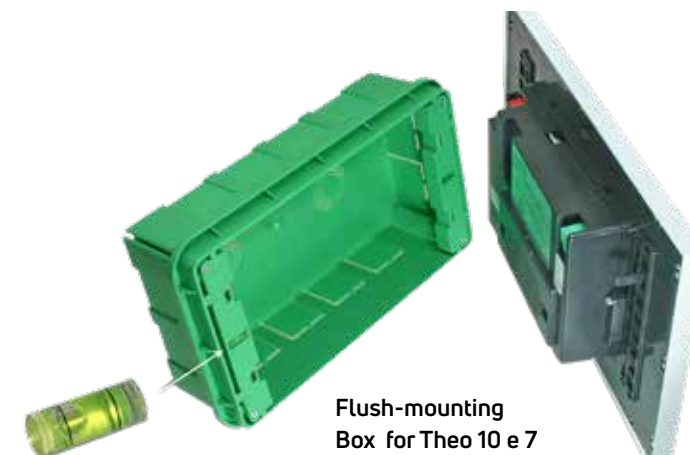
- Output power Supply: 12 ÷ 24 V DC
- Power absorption: 15 W
- Display: 10,1" - IPS - 16:9 - 1280x800 pixel
- CPU iMx6 Dual Lite 1 GHz
- RAM DDR2 1 Gb
- Slot micro USB OTG
- Integrated BCU KNX
- Operating Temperature: -5 ÷ +45 °C (internal use)
- Connection to the BUS: coupling terminal, 2 pins, d=0,8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

KNX FUNCTIONS

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

Flush-mounting Box

BX-KW07



Flush-mounting
Box for Theo 10 e 7

“Heartfelt thanks to Letizia Denaro, talented Italian fashion designer, who transferred her creative skills to create the cover of our catalogue, giving a touch of Italian style and creativity to the vision of Blumotix, which combines italian elegance with the latest building automation technology”





blumotix®

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