



EFFICIENT AND SUSTAINABLE USE OF ENERGY IS AN URGENT NEED: BUILDINGS AND BUILDINGS CONSTRUCTION SECTORS COMBINED ARE RESPONSIBLE FOR 36% OF GLOBAL FINAL ENERGY CONSUMPTION AND NEARLY 40% OF TOTAL DIRECT AND INDIRECT CO2 EMISSIONS.



Eelectron is an Italian company that manufactures electronic devices, hardware and software on KNX and Bluetooth standard.

Its product range addresses building automation, hotel automation and home evolution sectors with a deep focus on complex environments management and experience in integrated solutions.

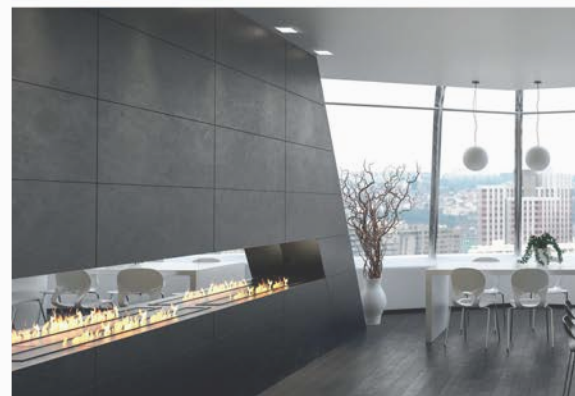
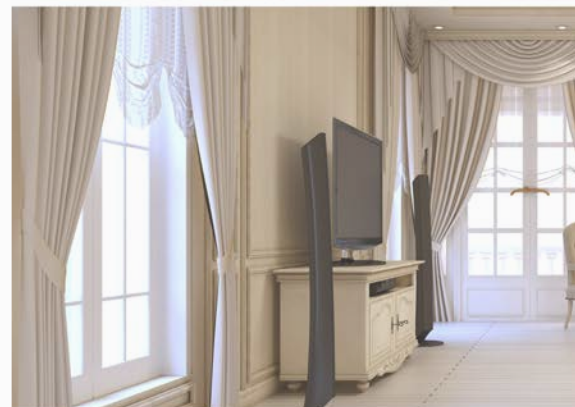
Eelectron's philosophy of comprehensive aesthetic design and engagement in developing highly innovative devices combines with KNX interoperability and compliance with the most stringent international quality standards.

Eelectron's experience is at the user's service for demanding clients that require training activities, assistance on products and continuous development that focuses on emerging needs and applications, energy saving and achievement of simple and efficient solutions for the benefit of occupants and managers.

Today Eelectron is leading the market by following his roots and including new technologies.



Eelectron SpA is a KNX certified training center: accredited by the KNX Association for the organization of basic, advanced and HVAC courses.





Shareholder of KNX Association since 2005, Eelectron is an example of technological leadership in the application of the common European standard protocol.

The **EIB/KNX** technology standard is now the most widely used in the field of control for buildings with service and residential uses, covering more than 10,000 devices produced by some 130 leading manufacturers in electronics / devices, and more than 12 million nodes installed worldwide.

KNX is approved by:

- European Standard (CENELEC EN 50090, CEN EN CEN 13321-1 and EN 1332-2 “KNXnet / IP”)
- International Standard (ISO / IEC 14543-3)
- Chinese Standard (GB / Z 20965)
- U.S. Standard (ANSI / ASHRAE 135)



It allows to combine **Comfort** and **Savings**, with **long term investment protection**, freedom of service provision and constant **Technology Evolution**.

Thanks to the **KNX standard** technology, various integrations are available on the system; therefore, together with Eelectron's know-how, various technical requirements can be addressed.

KNX flexibility offers the possibility to add or reprogram new devices after installation and meets the needs of completion in renovations or extensions.



For more information see the KNX website at:

www.knx.org

BUILDING AUTOMATION

| Automate functions of medium-large buildings: commercial, offices, hospitals, hotels, museums, public buildings..| Offer **automatic management** and **guarantee continuous integrated control**, lowering **energy costs** and **improving efficiency** | Increase comfort and safety of the occupants and **improve quality of life**.

Reducing energy consumption not only lowers costs, but also **reduces the environmental impact of the building for the benefit of all**.



INTEGRATION



BRIGHTNESS
CONTROL



CONSTANT
DIMMING



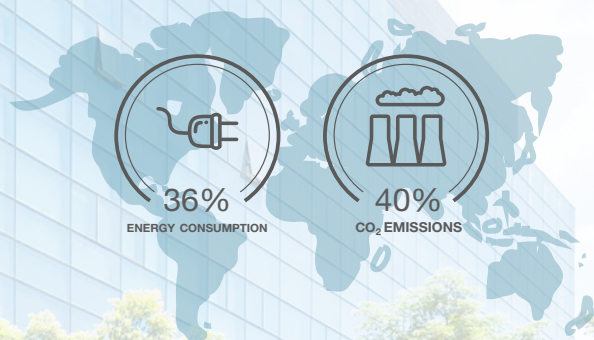
PRESENCE
DETECTION



HVAC
CONTROL



BLINDS AND
SHADES CONTROL



Efficient and sustainable use of energy is an urgent need: buildings and buildings construction sectors combined are responsible for **36% of global final energy consumption** and nearly **40% of total direct and indirect CO₂ emissions**. [*]

BUILDING AUTOMATION

Eelectron delivers solutions and products able to implement automation systems for various kind of project, in a new building and in a renovation project.

Thanks to KNX installation versatility and to the flexibility of Bluetooth® technology, Eelectron's solutions can connect and control all the building's functions, whether it is an office building, commercial building, school, university, administrative building, production site.

Control HVAC (heating, ventilation and air conditioning), lighting and shading in order to **satisfy different needs** and **reduce costs** by controlling energy consumption in an intelligent way. All the automation functions can be managed automatically, in relation to presence, manually or centrally via supervision - also in the move via smartphone or tablet.



INTEGRATION



BRIGHTNESS
CONTROL



CONSTANT
DIMMING



PRESENCE
DETECTION



HVAC
CONTROL



BLINDS AND
SHADES CONTROL



HUMAN CENTRIC
LIGHTING



AIR QUALITY



ENERGY CONSUMPTION
MONITORING



CONFIGURABLE
SMART LOGICS



SUPERVISION



REMOTE
CONTROL



BUILDING EVOLUTION

More comfort, higher energy efficiency, scalability, security and a better quality of life.

Optimizing energy efficiency in buildings means then use the energy only in the required amount and only when necessary, thanks for example to:

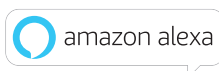
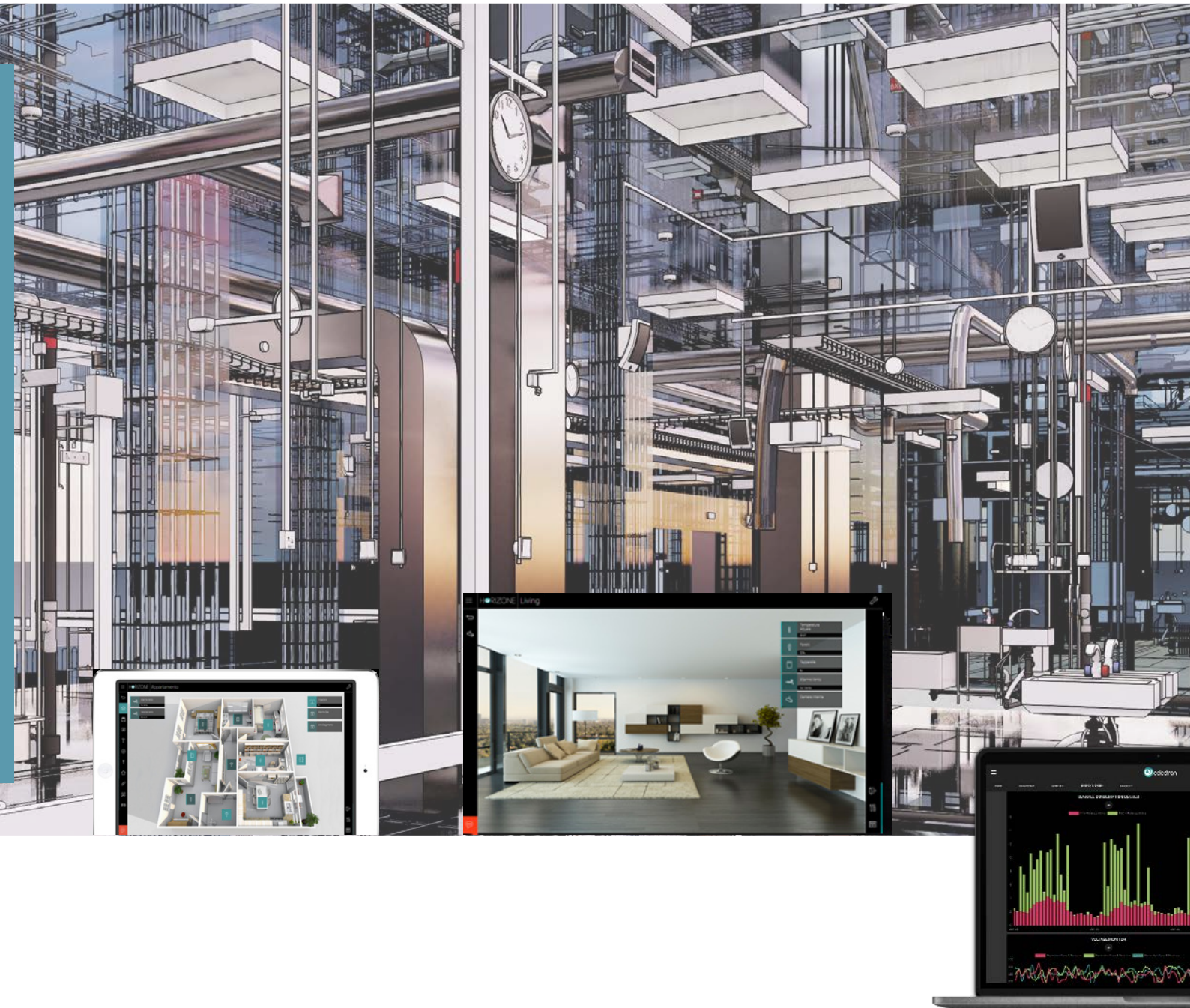
- ✓ Integrated control
simple and efficient supervision and control software
- ✓ Lighting and HVAC control, presence and Illuminance related
 - lighting control based on the presence of users
 - HVAC control based on the presence of users
 - dimming of lights based on natural brightness
 - groups of lights management
- ✓ HCL (Human Centric Lighting)
implementation of logics to manage the temperature (hot / cold) of the light, changing the color according to the time of day and the natural temperature - for the maximum benefit of the guests
- ✓ Environmental parameters detection
 - enhanced automatic shading control based on sun position tracking/season
 - CO₂/V.O.C. detection and management of air recirculation
 - humidity and sound detection for environmental optimization
- ✓ Integration in third party BMS



BUILDING SOLUTION

SUPERVISION

BUILDING EVOLUTION



HORIZONE

Supervision environment for intelligent buildings

Compatible with SmartPhones & Tablet iOS® or Android®,
PC & Laptop MacOS / Windows OS



HORIZONE, available in different sizes, is the perfect solution either for small environments, like professional studios, shops, showrooms, and for extended applications in commercial malls, office buildings, sport complexes, hospitals. Dedicated **centralised monitoring** functions are also available for multi-facility corporations, as for shops or delocalised manufacturing sites. Moreover, the system is not requiring

any working PC in the installation.

Built over a reliable and powerful software architecture, HORIZONE allows users with many possibilities to create **scenarios, astronomical clocks, logics, comparators, data logging, graphs, email notifications for alarm reporting for real-time management and monitoring of the system and advanced controls with simplicity.**

The robust hardware and product construction quality are matching with product reliability, stability and immunity to disturbs and interferences.

The system offers native compatibility to ModBus protocol, without using external interfaces: it is possible to integrate **signals coming from other layers, and to manage meters, control units, sensors, PLC, SCADAS** that are working in the environment over different subsystems - allowing the integration in graphical pages displaying values, status and controls to and from these subsystems.

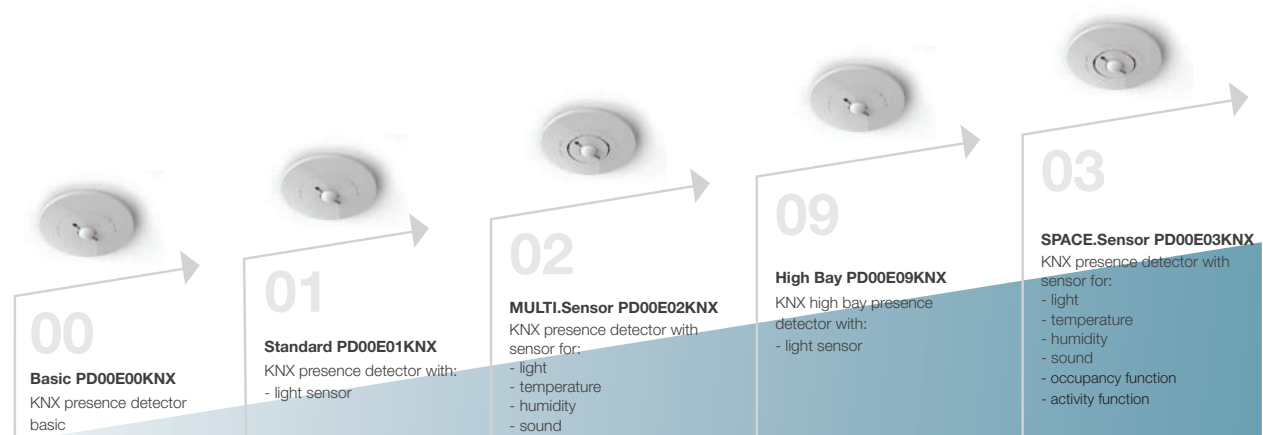
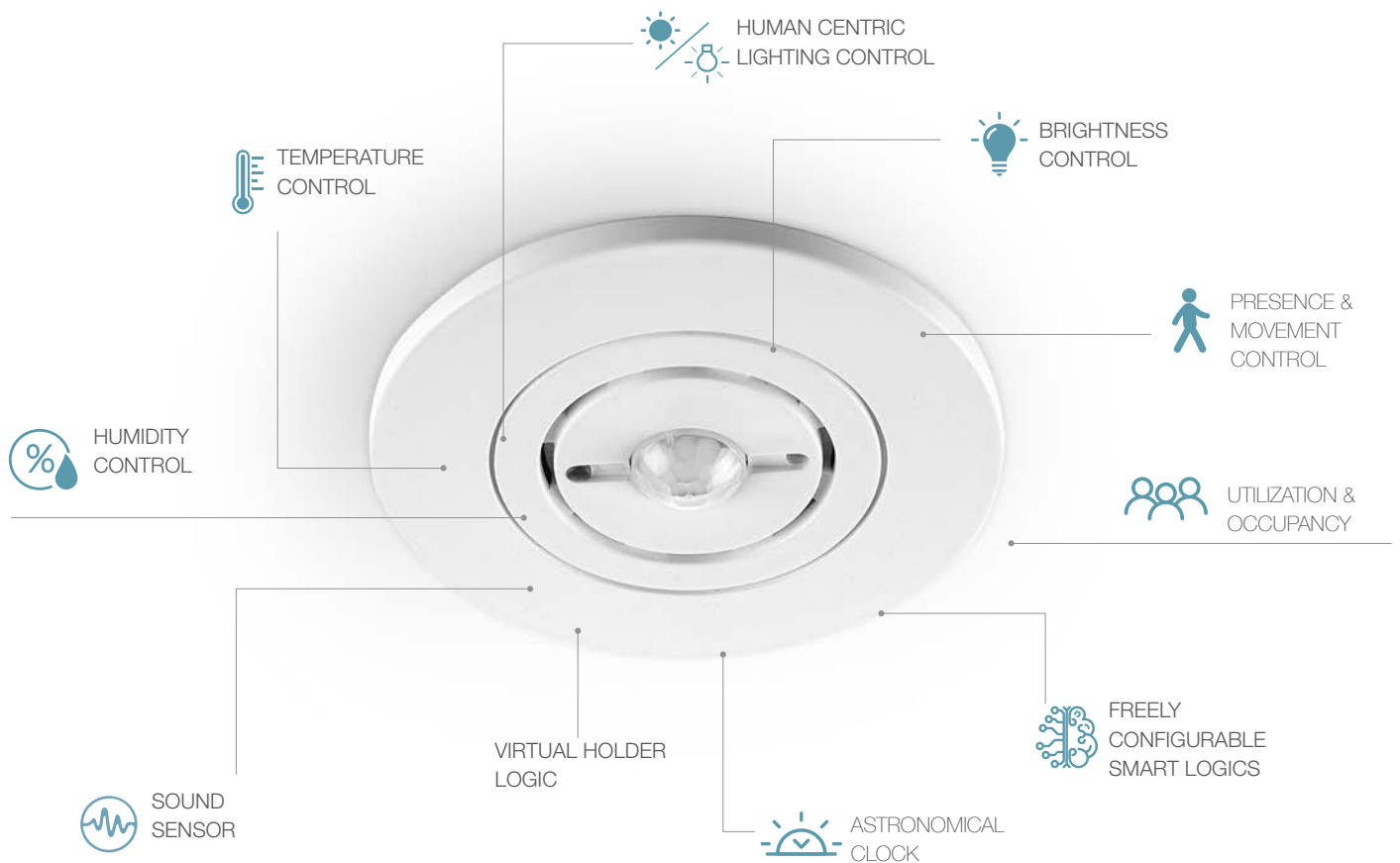


MULTI.SENSOR KNX

DESIGN **PLUS**
powered by: **light+building**
2020

INNOVATIVE, SMART, RELIABLE

The new range of sensors, combining information on presence, brightness, humidity, temperature and sound, contribute effectively to control heating, cooling, lighting, shading and room optimization complying with Leed®, Breeam® and Well® requirements for buildings.



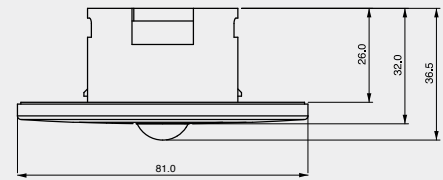
utilization range & occupancy

The precise detection of activity in the environments allows an anonymous analysis, both at entire building level or of individual areas, allowing reports generation, graphs, final and percentage analyzes, visualization of heat maps.

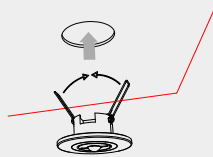
The functions allow: space optimization, saving on operating costs, increasing occupant satisfaction and adapting the workplace to meet needs, collaboration and productivity increase: furthermore, to receive information on the use of spaces to manage their use and destinations.

elegant flat design

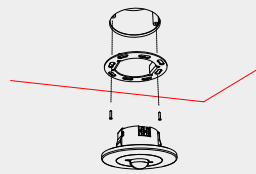
Top functionality combined with design



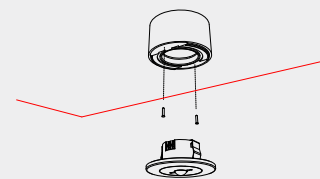
flexible installation



Ceiling installation.
Stability granted by the spring clips, hidden by the ceiling mounting.



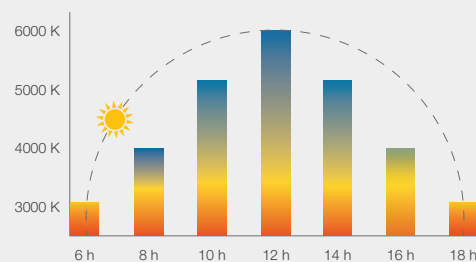
Flush-mounted
with Box mounting
frame.



Surface installation with
the surface mounting
enclosure.

lighting comfort closer to reality

thanks to the "CIRCADIAN RHYTHM" logic with which brightness and color temperature are imposed on the basis of predefined curves or on the real position of the sun during the day with respect to a terrestrial coordinate.



Human Centric Lighting is a lighting concept based on color variation, light intensity and proper lighting that mimics the natural daylight to enhance comfort, health, wellbeing and human performance. Multi.Sensor directly provides HCL control in different formats according to the controlled device.

complete detection

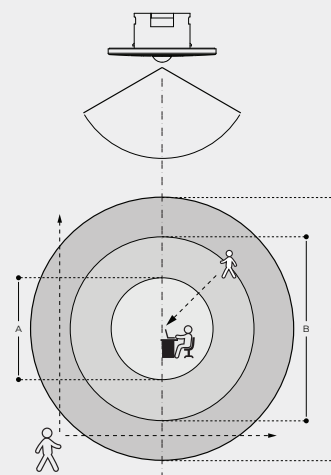
thanks to the sound sensor it is the ideal solution for rooms with parts not totally visible to the infrared sensor.

wide detection area

BASIC - STANDARD - MULTI			
h	A	B	C
2.5 m	3.8 m	4.5 m	6.4 m
3.0 m	4.0 m	5.0 m	7.0 m
3.5 m	5.0 m	6.0 m	8.6 m
4.0 m	6.0 m	7.2 m	9.2 m

A | Person working at the desk
B | Person moving towards the sensor
C | Person moving sideways with respect to the sensor

optimized for small movements



9025 MULTI.SENSOR CONTROLLER

EFFICIENT, PRECISE, ELEGANT

9025 Multi.Sensor Controller is a device of the 9025 series, wall-mounted; it monitors the internal environment and allows to detect temperature, humidity and CO₂ (measured directly by means of an integrated probe, not through calculations based on other sensors).

It allows the optimization of values whilst keeping energy consumption to a minimum and therefore delivering of a **healthy and efficient environment to occupants**, making the building more sustainable.



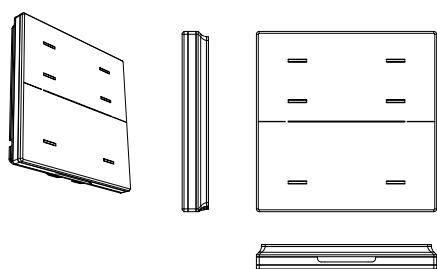
MC06A01KNX

9025 Multisensor Controller

[CO₂ – Humidity – Temperature]

HC06A01KNX

9025 Humidity – Temperature Controller



device includes 6 capacitive buttons that can be configured to manage on/off commands, dimming, shutters and venetians control, scene recall and control, objects sequences etc..

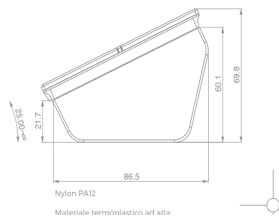
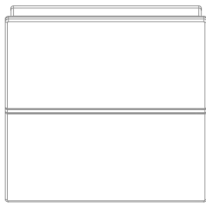
CUSTOM DESIGN

BUILDING EVOLUTION

Products and solutions, natively designed for a CUSTOM DESIGN.

A world of materials, finishes, icons to optimize and personalize the experience of people and requests in different realities.

Eelectron provides to architects and interior designer a **co-design service** to achieve seamless integration levels.



The OTOMO logo is displayed in a stylized, fragmented font where the letters are composed of geometric shapes like circles and lines. It is positioned on a teal-colored wall panel in a modern office hallway.

OTOMO

OTOMO

OPTIMIZED OFFICE AUTOMATION

OTOMO® is a system composed of electronic devices and objects (table and ceiling lamp) equipped with environmental sensors.

It works by DETECTING THE PRESENCE OF A USER IN AN ENVIRONMENT and consequently managing lights, energy saving, environmental parameters.

OTOMO® is an innovative system designed to optimize a single target: the office.

It uses Bluetooth® technology allowing objects to exchange information over a wireless network that is entirely configured through the App, available for smartphone & tablet.



DALI



OTOMO

It's a network of Bluetooth® controls born to manage optimization, energy saving and office control through smartphone and mobile devices.

Through the **detection of qualified presence** and thanks to the integration of **Bluetooth Low Energy®** and **IoT** sensors, OTOMO allows - with a wireless solution - to improve the well-being of the occupants and the environmental quality.

OTOMO® stands out in the market with a professional proposal: easy to install, scalable and affordable, it requires minimum programming skills for its setup, providing a new relationship between simplicity and efficiency.

OTOMO® can be integrated with **KNX**





**LIGHTING / CONSTANT
DIMMING**



BLINDS/SHADES



GATES



SHUTTERS

LOCAL OR REMOTE MANAGEMENT

AUTOMATIC AND/OR PRESENCE-DEPENDENT MANAGEMENT

- lux metering
- control and constant brightness dimming through lux meters installed on the work table / ceiling
- energy savings thanks to shading control
- activation of "favorite" settings for single user / environment
- automatic zones shutdown



OTOMO

OPTIMIZED OFFICE AUTOMATION

OTOMO® of more than 20 years of Eelectron's expertise in building automation; of a multi-annual R&D effort to deliver an easy way of realising complex applications using IoT and Cloud technologies, declined on a strong application experience.



OTOMO is



biodynamic light,
current state of all systems



favorite scenarios per user

OTOMO[®] APP



lights,



blinds,



shades,



gates

Each automated function can be immediately changed, switching to manual control using the APP [iOS or Android] which can DISPLAY room brightness and CONTROL:



n elements,
er / environment.

OTOMO

OPTIMIZED OFFICE AUTOMATION

A simplified set of well centred components:

- table lamp with lux/temp metering
- DALI Bluetooth Low Energy® controller
- relè Bluetooth Low Energy® modules
- switch Bluetooth Low Energy® interface module
- lux / temperature meter accessory
- lighting fixtures **OTOMO® enabled**
- **gateway:** OTOMO-KNX | OTOMO-IP | OTOMO-ModBus
- beacons for user detection



PANZERI®
WE MAKE LIGHT

Jackie_IoT

OTOMO
ENABLED

Giano_IoT





IO14A01BLE

DALI Module
2 channels x 8 ECG Broadcast -
Integrated Circadian Cycle
Power supply 230Vac

The brightness of the DALI lamps is driven by BT01A01OTO SENSOR connected to the IO42A01BLE device or from the brightness sensor integrated in the Jackie IoT lamp.

Inputs

1 digital INPUT (dry contact) e.g. to connect a conventional presence sensor

Outputs

2 OUTs - 16A relays to drive 1 blind / 2 on-off lights / generic loads
2 channels x 8 ECG Broadcast



IO42A01BLE

IO42 Module (4 IN + 2 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 2 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights / loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)

Outputs

2 OUTs - 10A RELAYS to drive 1 blind / 2 on-off lights / generic loads



IO41A01BLE

IO41 Module (4 IN + 1 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 1 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights / loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)

Outputs

1 OUT - 10A RELAY to drive 1 on-off light / generic load



IO40A01BLE

IO40 Module (4 IN + 0 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 2 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights / loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)



BT01A01OTO SENSOR

Brightness & Temperature Sensor

OTOMO brightness and temperature sensor provides the measurement of temperature and illuminance (lux) that are visible on OTOMO APP.

OTOMO sensor in an accessory of IO42A01BLE and is used to manage and dimming DALI lamps.



PD02X01CON PRESENCE SENSOR

Presence & light sensor 2 channels
Inwall mounting

is a ceiling flush mount PIR detector. The load will be switched on automatically when the movement is detected and the ambient light level is below the Lux setting value. Until there is no movement detected and the pre-set delay time has been expired, load will be switched off automatically.



BE01AXXACC BEACON

Allows the recognition of the presence of a user in an environment in place/in lack of mobile devices.

Performance and low power, an available time for 5 years or more



IN00A01BLE

OTOMO-KNX Gateway

Commands forwarding from OTOMO to the KNX bus and vice versa, activating - for example - KNX scenarios triggered by the presence / absence of a user detected by OTOMO.

Transfer of brightness and temperature information detected by OTOMO devices, for example Jackie_IoT, to the KNX network avoiding the installation of new sensors.

Extension of complex functions and scenarios (e.g. weekly or monthly schedules) in the OTOMO network thanks to the integration of devices already installed in the KNX system.

IN00C01BLE

OTOMO-IP Gateway

System remote control via cloud: ability to control the devices even if not in the detectable Bluetooth® area

Display of analytics on a web portal directly on the mobile device (e.g. the switch-on time of a specific light point, average temperatures).

Interfacing of the OTOMO system with the Modbus / TCP world.





UNIVERSITÀ BOCCONI
MILANO - (ITALIA)



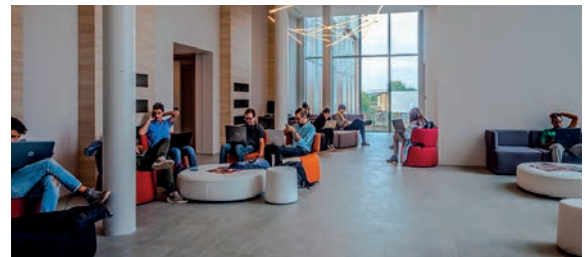
LORIS KESSEL AUTO SA
LUGANO - (SWITZERLAND)



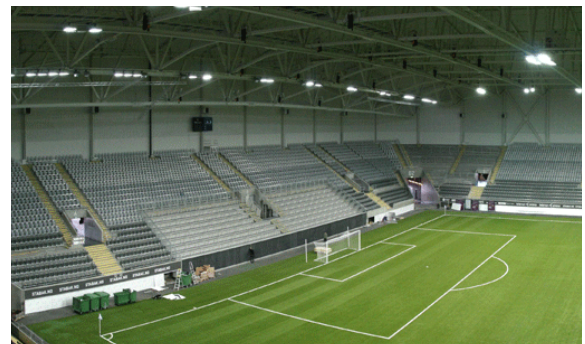
DIESEL SPA HEADQUARTER
BREGANZE - (VI) (ITALIA)



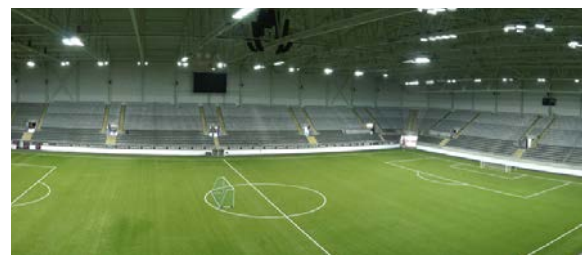
CAMPUS MONNERET
MILANO - (ITALIA)



DTU - DANISH TECHNICAL
UNIVERSITY
LYNGBY - (DENMARK)

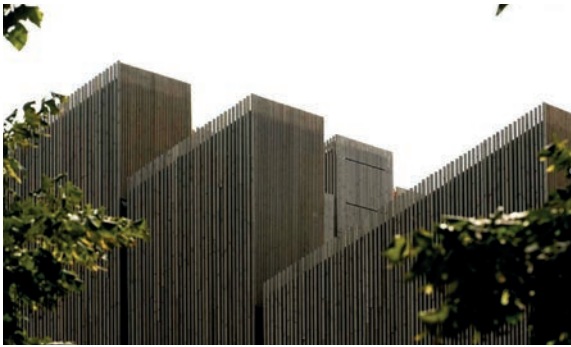
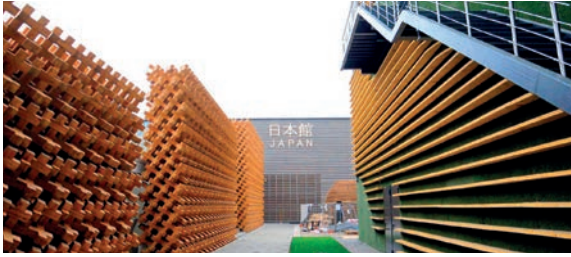


INDOOR STADIUM
TALLIN - (ESTONIA)





EXPO 2015
MILANO - (ITALIA)



ARPA HEADQUARTER
FERRARA - (ITALIA)



LS PLATOU CLARKSON OFFICES
OSLO - (NORWAY)



AERMACCHI HEADQUARTER
VENEGONO - (VA) (ITALIA)



PARTE BASSA VIALE STAZIONE
BELLINZONA - (SWITZERLAND)



HOTEL SOLUTION



Hospitality industry is a complex environment with a particular attention to:

- exceptional guest experience through Usability, Comfort & Design
- delivery of a quality service through Profitable Operational Efficiency and Integration
- request for competitive, reliable and scalable solutions for operators, protecting investment in the medium-long term period



HOTEL SOLUTIONS

Innovative, intelligent devices and trustworthy integrated systems

With over **20 YEARS of EXPERIENCE** and everyday learning from hotel operators and managers, **MORE THAN 32.000 ROOMS** installed in **72 COUNTRIES WORLDWIDE**, important references and a solid range of products, we are recognized as one of the leader in the **KNX HOTEL MARKET**, through constant development of solutions and high experience on project, advising always the best to our customers.

Deploying a wide spectrum of dedicated solutions, Eelectron is assuring considerable energy savings through an intelligent management of lighting, heating and cooling systems, delivering fast returns on investments and flawless project execution.

Since 1996 In the hotel market, Eelectron is providing different smart solutions for the HOSPITALITY INDUSTRY following changing market needs and evolving standards. Our system integrations has proven to be among the most reliable, cost effective and technologically advanced.

With a focused eye on contemporary design, customization techniques and material research we constantly follow owner's and operators highest standards.

HOTEL MANAGEMENT

Unique experience for guests & staff

Hospitality industry is a complex environment with a particular attitude and attention to:

- ✓ Exceptional guest experience through Usability, Comfort & Design.
- ✓ Delivery of a quality service through profitable operational efficiency and integration.





GUEST ROOM MANAGEMENT, PERFECTED.



PROTECTION AND SECURITY

Highest standards ever, as a must

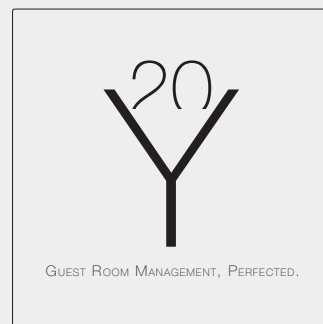
KNX is the **MOST SECURE** smart home and smart building standard available, matching **highest security requirements** in cyber security by following **AES128 Standard**.

Full secured KNX installations are guaranteed both from attacks carried out remotely, and from the risk of possible tampering of the bus system aimed at stealing informations or sending unwanted commands: without having the necessary cryptographic keys, it is not possible to decrypt and replicate data traffic.

Our solutions are KNX SECURE Ready.

A safe energy management is granted also through redundant power supplies which reduce loads peaks and react to unexpected failures.





SCALABILITY AND INTEGRATION

Shaking hands with professional subsystems

GRMS - Guest Room Management System can be integrated with the BMS and PMS in order to enable global management of the building and the hotel's operations to help reduce running costs and increase the efficiency of the building.

- ✓ Compatible with Property Management Systems (MICROS Fidelio Opera®, Protel, Flyhotel, etc.)
- ✓ ModBus integration to the most widely used brands and technologies (LON e BACnet, Mitsubishi®, Daikin®, Toshiba®, Sanyo®...)



HORIZONE



ACCESS CONTROL AND SUPERVISION

Since our everyday living requires energy saving and cost control

- ✓ Presence Detection
- ✓ Guest Management
- ✓ Staff Management
- ✓ Profile Management with preferred HVAC and Lightning settings
- ✓ Zone Control
- ✓ Access Reports
- ✓ Presence-Activated Logics

A Complete view on the entire building, common areas, alarms client's and staff activity locally or from remote.

Using the **Virtual Badge app** it is also possible to manage doors opening/access and the control of the room directly via the customer's mobile device.



OCCUPANCY DETECTION



Transparent control, evident comfort

Accurate presence information thanks to integration with door magnetic sensor.

Our occupancy detection solution can understand guest presence in the room by using a DEDICATED PRESENCE SENSOR. It detects also unexpected presence in the room and is able to differentiate multiple behaviours.

When the room is occupied, the Guest will have full control of all room lighting and temperature controls.

The system is able to detect presence also from other bus events.

When the room is 'unoccupied', all lights will turn off (with a standard delay) and the HVAC system will reset to the preferred temperature. If the room is unsold, all lights will go off and the HVAC will reset to a convenient temperature.



CUSTOMIZATION

Your style

Products and Solutions, natively engineered for CUSTOM DESIGN.

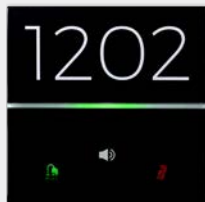
A World of materials, finishings, icons to optimize guest's experience and **hotel's brand identity**.

Products dedicated to the hospitality industry that meet customer needs without sacrificing the quality of industrial standards.

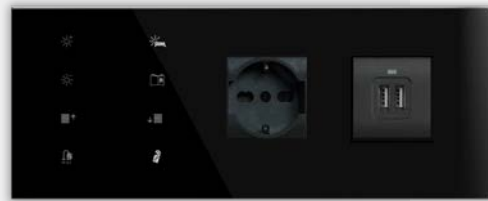




GUEST ROOM MANAGEMENT, PERFECTED.

**9025GL02E0x**

Doorpanel 2 ch
Black/white + RGB

**9025GL10C0x-B2x**

9025 custom Bedside Panel plate

9025 Door Panel for guest / service signaling which includes an RGB bar for MUR/DND function display. Backlit led number of the room or logo could be customized following the hotel needs. A dedicated thermostat and/or temperature probe is embedded in the product in order to optimize the functionalities on common areas..

9025 Bedside Panel includes the features of the highly acclaimed switch: up to 10 channels, thermostat or temperature probe integrated, 1 analog / digital input on board. The product is intended to fulfill the request of the hotel market including high possibility of customization through dedicated icons set, two sockets and a minimal design.

Both products integrate the **Virtual Holder Logic** featured in 9025 switches and thermostats range



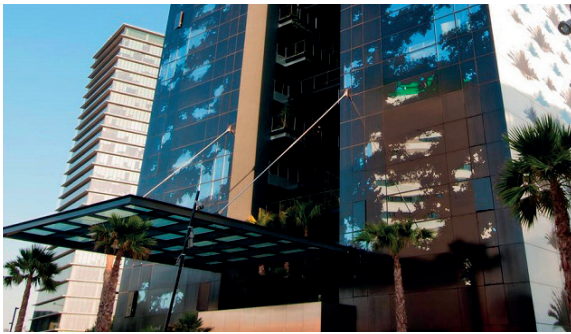
HOTEL REFERENCES



TESORO BLU HOTEL & SPA
KEFALONIA - (GREECE)



WESTIN GOLF RESORT & SPA
ABU DHABI - (UNITED ARAB EMIRATES)



HOTEL CATALONIA FIRA
BARCELONA - (SPAIN)



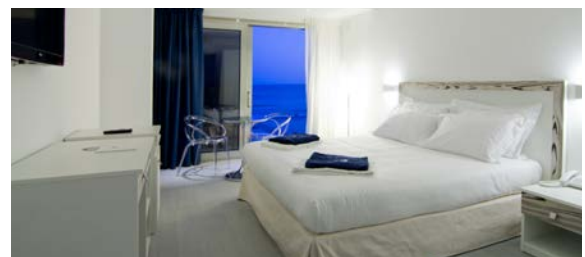
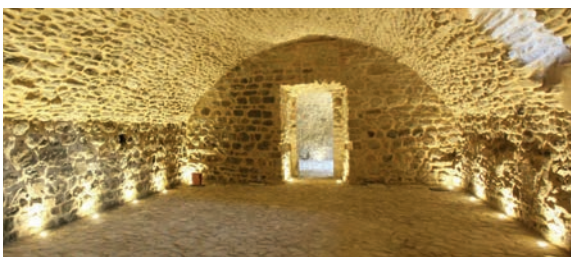
VOX HOTEL
JONKOPING - (SWEDEN)



CASTELLO DI VARZI
PAVIA - (ITALIA)



HOTEL MIRAMARE
RAGUSA - (ITALIA)



HOTEL REFERENCES



AL RAHA BEACH HOTEL
ABU DHABI - (UNITED ARAB EMIRATES)



CHARMING FOX SAMUI
KOH SAMUI - (THAILAND)



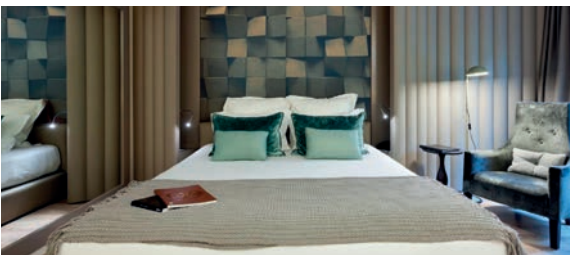
HOTEL INTERSUR RECOLETA
BUENOS AIRES - (ARGENTINA)



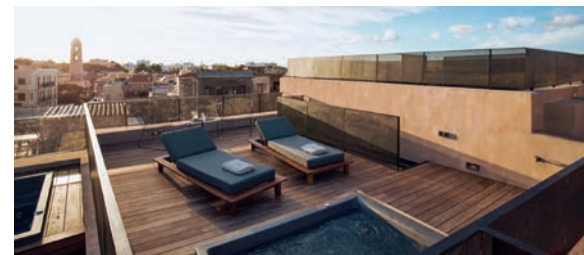
RADISSON BLU HOTEL
DOHA - (QATAR)



HOTEL CONDES DE BARCELONA
BARCELONA - (SPAIN)



MONASTERY ESTATE VENETIAN HARBOR
CHANIA - (GREECE)



A modern dining room with a glass-topped table, white chairs, and large windows. The room features a wooden floor, a white wall, and a large window with a view of the outdoors. The ceiling has a recessed light fixture and a pendant light hangs over the table. The text "RESIDENTIAL SOLUTION" is overlaid on the image.

RESIDENTIAL SOLUTION

Automate the functions of a residential building to offer **comfort, safety and simplicity**, future-oriented, to maintain **commercial attractiveness over time**, contribute to **environmental sustainability** and better **enjoy your home**.



RESIDENTIAL SOLUTIONS

Benefits of a smart home

Compatibility, comfort and safety.

Eelectron products offer a solution that meets the highest standards in residential buildings combining comfort and safety with savings and environmental awareness.

Eelectron's automation solutions for the residential sector are aimed at medium-large sized residential buildings and luxury properties: compatible with almost all electrical devices and with third-party products. This integration ensures system scalability and can meet future needs

- ✓ Control and management of underfloor heating / cooling / room humidity
- ✓ DALI / DMX / Led lighting control
- ✓ Local or remote control from Tablet and smartphone (Android - iOS)
- ✓ Interface with audio systems, security systems, IP cameras
- ✓ Interfacing with video door entry systems



LIGHTING

control of the indoor and outdoor lighting.



BLINDS & SHADES CONTROL

The control of blinds& shades is performed centrally or decentralized



HEATING, VENTILATION, AIR CONDITIONING

Centralized or demand-based control - even remote -to ensure the desired temperature and reduce energy consumption



CUSTOMIZED SCENARIOS

To accommodate the different needs of environments and users



MONITORING/ALARMS

Sensors for monitoring windows and doors, control systems and alarms



VISUALIZATION AND REMOTE CONTROL

Visualization and central home operation using touch displays. also on the move from smart phones and tablets



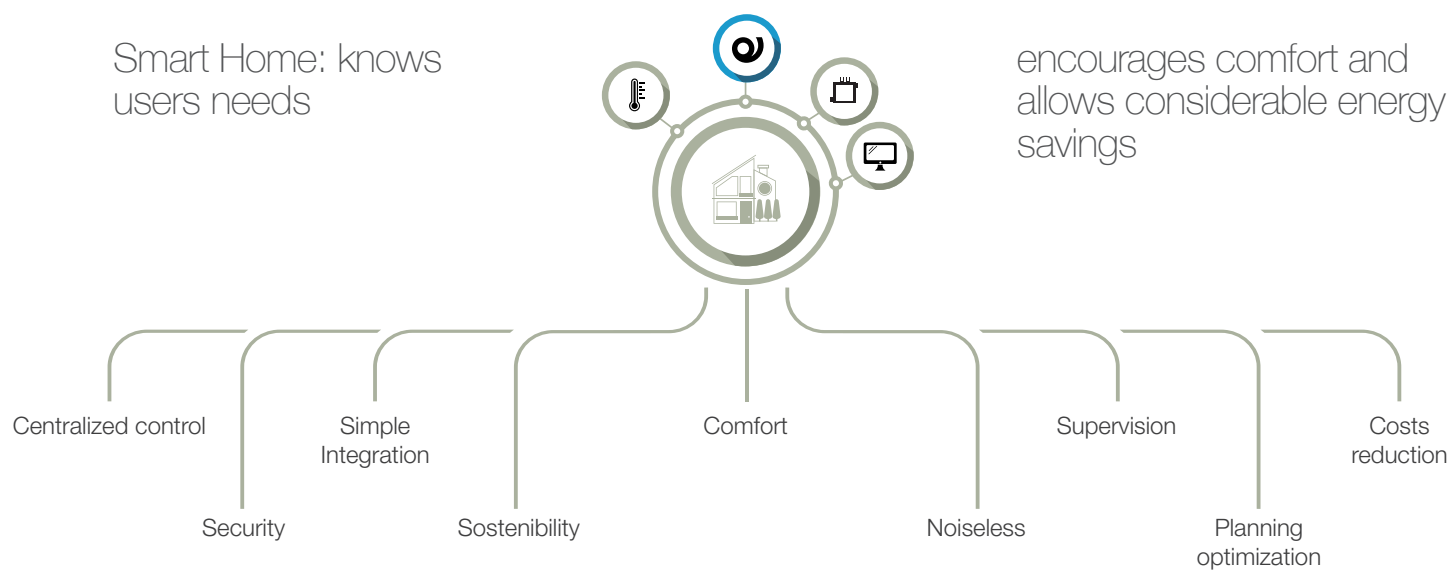
ENERGY METERING

Transparent consumption and real-time control



Smart Home: knows users needs

encourages comfort and allows considerable energy savings



SUPERVISION

HORIZONE

Home automation

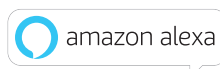
HORIZONE is the ideal solution to manage every technological sub-systems for home evolution: lighting, blinds/shadows, temperature, loads control, power consumptions, door intercom system, irrigation system, security cameras, alarm system, music/video.

HORIZONE has been designed to deliver full control in an installation with one only tool. Easy access from Pc/Mac or mobile devices, from your house or from remote.

Built over a reliable and powerful software architecture, HORIZONE allows users with many possibilities to create scenarios, logics, and advanced controls with simplicity.



- ✓ Direct KNX and Modbus standard communication
- ✓ Local or remote configuration and control from Pc/Mac, smartphone or tablet, through web browser (Safari, Google Chrome etc.) or with an Apple or Android free app
- ✓ Fast configuration: ETS project direct import function (KNX installation)
- ✓ Voice control



RESIDENTIAL SOLUTIONS

Actuator for Electrothermal Valves

A typical use of the device is underfloor heating of residential installations focused on comfort and energy saving.



HA04A01KNX
Actuator for Electrothermal Valves
4 IN / 4 OUT

Control of 24Vac or 230Vac valves with no relay sound
Inputs (from 1 to 4) can be used as digital or analog
up to 8 smart thermostats



HA08A01KNX
Actuator for Electrothermal Valves
8 IN / 8 OUT

Freely configurable logics (up to 7)
4 or 8 Channels for valves in PWM (Solenoid Actuators)
2 or 4 channels for 3 point valve control



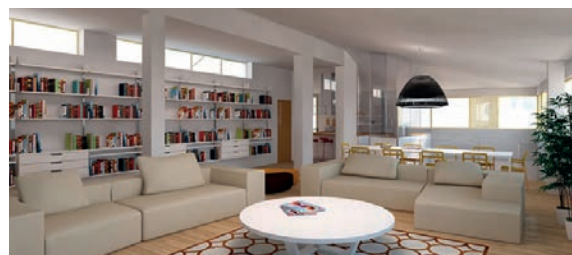
RESIDENTIAL SOLUTION



IL PAESE RITROVATO
MONZA - (ITALIA)



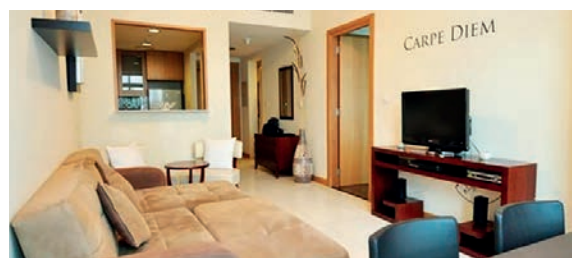
GORANI PALACE
MILANO - (ITALIA)



VILLA DESIGN
GDANSK - (POLAND)



IRIS BLUE TOWER
DUBAI - (UNITED ARAB EMIRATES)



TEMPLER VILLA
KUALA LAMPUR - (MALAYSIA)



BOSCO VERTICALE
MILANO - (ITALIA)



PRODUCTS RANGE

Research, development, design, production, Made in Italy

9025

evolving skills

9025 KNX is a set of touch switches, a range dedicated to temperature management, and a technological system to control smart buildings.

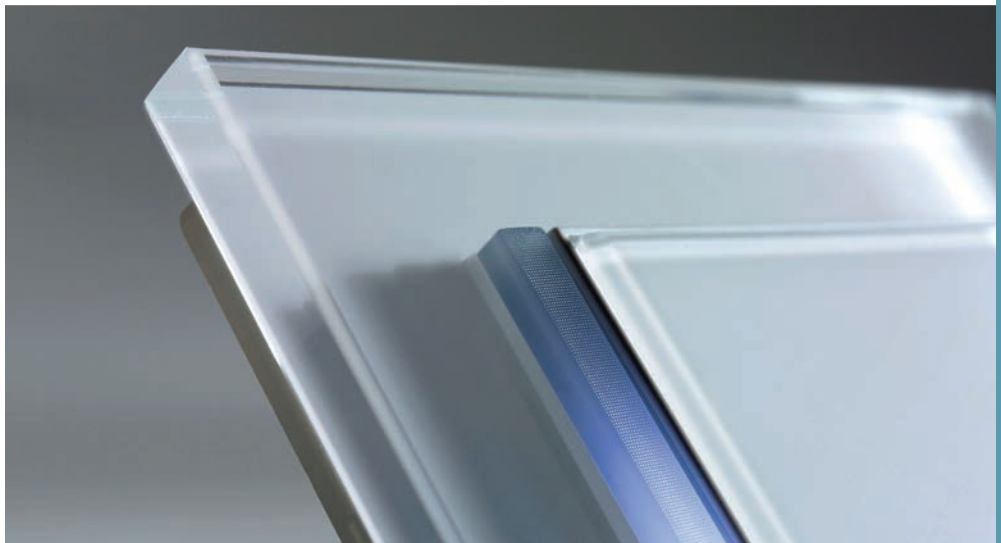
DESIGN PLUS
powered by light+building



3025

Warmth, in your place

55x55, 4 Controls, different Materials. Integrated thermostat detecting and regulating a desired temperature. Materials, functionalities, finishing are essential values for your environment project.



eelecta

You, in an homy and environmental world

A product range dedicated to democratic, smart and creative design. To the interaction between users and lighting control, energy saving, temperature control, entertainment.

DESIGN PLUS
powered by light+building



reddot design award
winner 2012



PRODUCTS RANGE

Touch panels

TOUCH PANEL 3,5"

In a small space, in a distinctive shape, we have focused all our attention. Far from outward appearances, we have privileged the essence of an advanced interface, as expected by users



TOUCH PANEL 5" TOUCH PANEL 8"

New range of wall-mounted IP touch panels, based on Android. Exceptional graphics with Horizone supervision: both on the small 5", compact and versatile, and on the more generous 8", full control of every aspect of the building.



HORIZONE

PRODUCTS OVERVIEW

Actuators, dimmers, sensors, system components

Actuators Input - Output

Model	Relay Rating	Outputs	Analog Inputs	Digital Inputs	Load Control	Shutters Venetians Control	Advanced control shutt. venet.	Fancoil 2 Pipes 1/23 Speed	Fancoil 4 Pipes 1/2 Speed	Fancoil 4 Pipes 3 Speed	Electric Valve	Motor reductor valve	Thermostat logic	Max Interlocks	SD Card	Simultaneous relay control	Staircase function	IR Receiver
BO04F01	16A	4	0	0	■	■	■	■	■		■	■		4	■	■	■	
BO08F01	16A	8	0	0	■	■	■	■	■	■	■	■		8	■	■	■	
BO12B01	16A	12	0	0	■	■								0			■	
BO16F01	16A	16	0	0	■	■	■	■	■	■	■	■		8	■	■	■	
IO04F01	16A	4	4	4*	■	■	■	■	■		■	■		4	■	■	■	
IO08F01	16A	8	8	4*	■	■	■	■	■	■	■	■	■	8	■	■	■	
IO16F01	16A	16	16	4*	■	■	■	■	■	■	■	■	■(2)	8	■		■	
IO32	10A	2	2	1	■	■							■	0			■	■

* Input can be digital or analog

Dimmer

Model	Installation	Outputs	Output's characteristics
DM01D	DIN RAIL	1	700 W
DM02A	DIN RAIL	2	300 W
DM04A	DIN RAIL	4	300 W
DL04A	DIN RAIL	4	4 A
DM04A	DIN RAIL	4	1-10 V

Push Button Interfaces

Model	Installation	Digital Inputs	Outputs LED	Analog inputs
IO22D	INWALL	2	2	
IO44D	INWALL	4	4	
IO62D	INWALL	6	2	
AD84C	INWALL	8	4	4



ACTUATORS

Supervision

Horizone

supervision webserver for Building & Home Automation

Touch Panel 3,5", 5", 8"

range of wall-mounted touch panels

Docking Station

Ultimate on wall solution dedicated to the management of smart installations., for iPad & iPad Mini

eSuite

Supervision for the hospitality industry. Access control and complete hotel management



Controls and design buttons

9025

capacitive switches up to 10 channels with integrated thermostat & thermostats/humidistats
glass finish, in 2 or 3 modules version

3025

55 X 55 mm switches - 4 channels, integrated thermostat in different finishes and materials

eelecta

HomePad (11x11 cm) & MiniPad (9x9 cm) available in 4 or 8 channels version



Actuators [Inputs - Outputs]

Inwall 3 inputs /2 outputs module

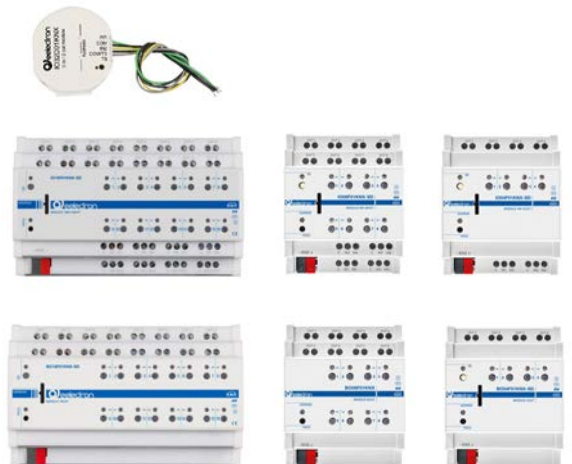
IO32D01KNX

Universal DIN modules

4-8-16 **inputs** / **outputs** with & without
micro SD card

F_Series

4-8-12-16 **outputs** with & without
micro SD card



Dimmers

1 Channel x 700w (master & slaves)

DM01D01KNX - DM01D01ACC

2 or 4 Channels x 300w

DM02A02KNX - DM04A02KNX

4 Channels LED / RGB W

DL04A01KNX

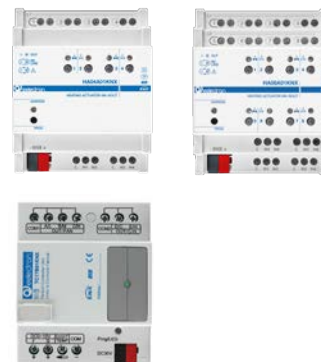
4 Channels 1-10v

DM04D01KNX



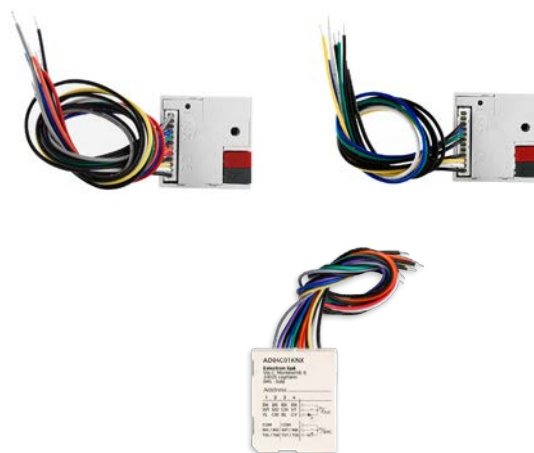
Climate control

Electrothermal valves module - 4 channels	HA04A01KNX
Electrothermal valves module - 8 channels	HA08A01KNX
Fancoil Controller 0-10v	TC17B01KNX
Fancoil Controller 0-10v	TC17B01KNX



Push Button Interfaces

2 - 4 - 6 Inputs / 2 Outputs Led	IO22D01KNX IO44D01KNX IO62D01KNX
Analog/digital interface 8 Inputs / 4 Outputs Led and thermostat function	AD84C01KNX



Gateways KNX

DALI Gateway	IC00P01DAL
DALI Gateway Tunable White	IC00P02DAL
DMX Gateway	IC00B01DMX



Sensors & Metering

Presence detector Basic	PD00E00KNX
Presence detector Standard with lighting control	PD00E01KNX
Presence detector Multisensor - lighting control, temperature, humidity, sound sensor	PD00E02KNX
Presence detector High Bay with lighting control	PD00E09KNX
Presence detector Space - with lighting control	PD00E03KNX
Energy meter single or three phase	PM10D01KNX PM30D01KNX PM30D02KNX



ACTUATORS

Weather Station

Weather station KNX Plus

WS00A01KNX



System Components & Interfaces

Power Supply 640mA

PS00D03KNX

USB

IN00A03USB

IP-KNX Secure

IN00S01PI

Router IP-KNX Secure

IN00A02RIP

Line coupler DIN Bus KNX

LC00B01KNX

Time/astronomical Master

ES01A00KNX

Raspberry KNX Interface

IC00R01KNX



Synchronicity - Access control

Transponder reader

TR22A09KNX

TR22A19KNX

TR22A29KNX

Transponder holder

TH22A09KNX

TH22A19KNX

TH22A29KNX



NOTES



Eelectron S.p.A. is a Italian company that manufactures hardware and software of electronic devices compliant with worldwide KNX standards.

For more than 20 years Eelectron is, in the national scene, a role model of technological leadership in the application of the KNX international protocol for building& home automation.

Eelectron, with its branch offices in China, Dubai and Hong Kong, distributes its systems in over 75 countries worldwide.



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