

EELECTRON HIGHLIGHTS 2024 EELECTRON HIGHLIGHTS 2024 EELECTRON HIGHLIGHTS 2024

IN JUST 30 MINUTES

DEC 10th 2024 SESSION



Legnano & Bangkok, Dec 10th 2024

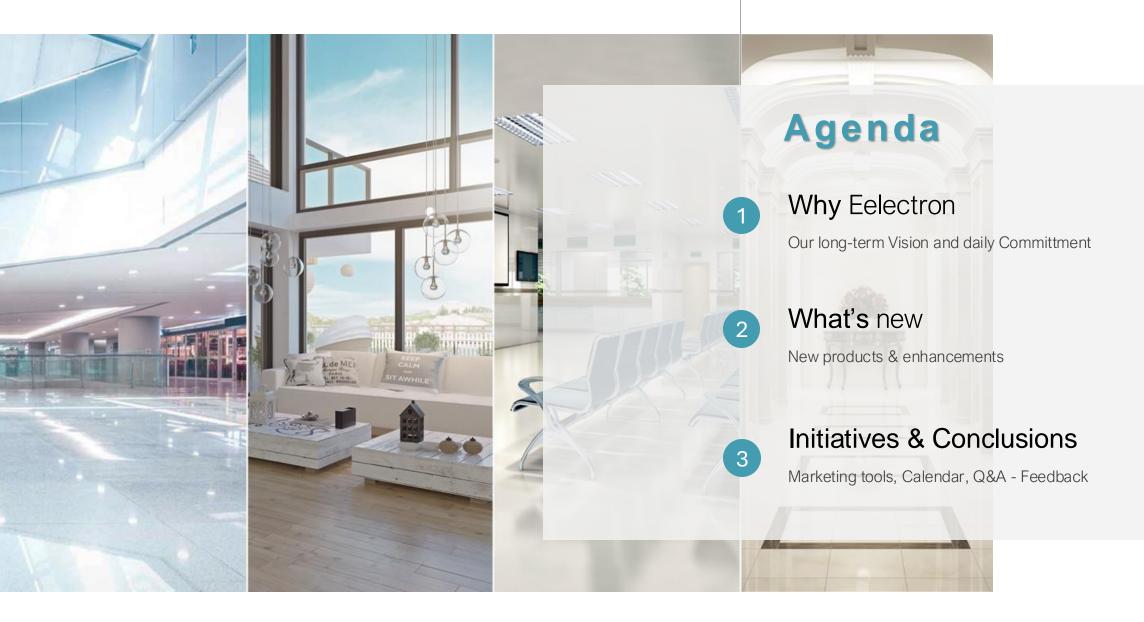


Jamel Nacef
TECHNICAL MANAGER APAC



Andrea Pontoglio
PRODUCT SPECIALIST





TO OUR PARTNERS AND CUSTOMERS

2024 COMPANY SUMMARY PROFILE



BUILDING AND HOME EVOLUTION

The growing interconnection among individuals creates a future where technology is not just a tool but an integral part of daily life.

.... SINCE 1995



A team for Design & Tech Company

People: 70 across 5 locations

2 R&D Production Eelectron Italy and IPAS Germany

ISO 9001 since **2006**, ISO14001 Sept **2024**

Selling In 90+ Countries

Evolving portfolio for continue contribution to

UX for Occupants 9 Design awards across 5 switch & sensors lines, all customizable

Energy & Green 350+ intelligent connected devices, 100% tested in production

Smart Buildings 2 secure global standards for building applications KNX & DALI

Enabling Applications | Since 2016 products with 2 Mobile & Digital standards MQTT & BLE



CONTRIBUTING TO SMART BUILDING BY TYPE:

Building Manager UX

Hotels, Student Houses, ...

Offices, Business Centres,...

Schools, Campuses,

Residential, Mixed Use,.

Hospitals, Residential Homes,

Logistics Centres, Data Centres

Other Buildings





OCCUPANT USER EXPERIENCE

UX HIGHLIGHT

2024

Portfolio: continuous UX evolution for occupants and owners KNX

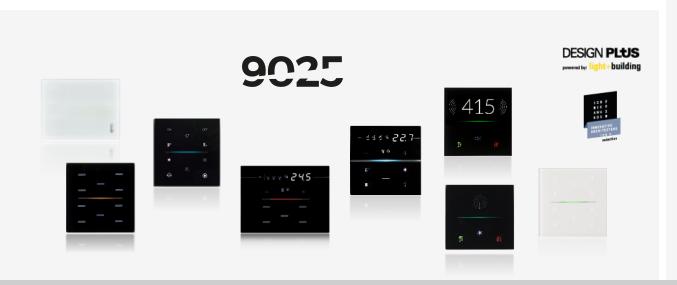






Customizable Switches & Multi functions T, H, Co₂ Sensors, Guest Access Control,...



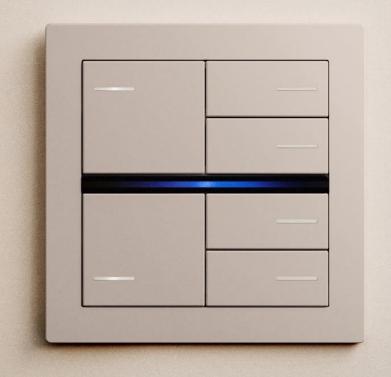






Custom Touch UX













BETTER LIVING FOR ALL BETTER LIVING FOR ALL

BETTER LIVING FOR ALL BETTER LIVING FOR ALL BETTER LIVING FOR ALL BETTER LIVING FOR ALL BETTER LIVING FOR ALL



Why OL-U



TRANSVERSALITY



OL-U is a state-of-the-art product naturally designed for KNX, the secure and connected international standard.

Engineered for cross-functional solutions, it can meet a wide range of demands, from private residential to contract applications. All this is made possible through various models, configurations, finishes, materials, installation standards, and sockets.

STYLE



The Italian design is always well noted. Ideation, R&D and production are key elements for distinctive solutions, demonstrating a native distinctive style.

FLEXIBILITY



OL-U can be easily adapted to a variety of projects thanks to the customization features as icons and features. This enables a solution that can be tailored in wide range of environment and even adaptable over the time.

EASY AND SIMPLE

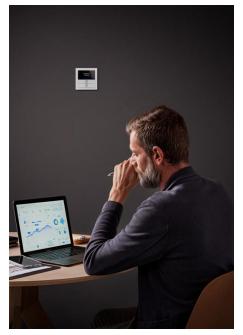


OL-U has been designed having in mind the idea to contribute to simplify a day in life in a building or house. Human centric vision with technology servicing people as occupants, as programmers, as installers each one with the most closest UX.



OL-U 4 U









DESIGN

OL-U is a reliable solution, characterized by a design that easily integrates into pre-defined projects.

PROJECT

OL-U comes with a line for Building & Home Evolution that is highly adaptable, suitable for large-scale projects, with the assurance of continuous support both in the preparation of production plans and during the project execution and subsequent maintenance.

INTEGRATION

OL-U simplifies the design process as a reliable solution with easy installation, adaptability over time, and constant updates on features and product range availability providing various options for the end customer.

LIVING

OL-U enhances comfort and quality of well-being for the end user.

OL-U features at the glance



- up to 8 mechanical buttons (up to 16 channels)
- one 2-stage thermostats (2 for the thermostat) for the control of two distinct areas, both with integrated PI controller for piloting heating, cooling, valves, 6-way valves, fan coils 2 and 4 pipes.
- capacitive bar with swipe function for the implementation of programmable functions via ETS
- KNX Data Secure
- 32 logic blocks
- Virtual Holder logic
- »Wake Up» Touch Function
- Temp sensor





Switches overview

OL – U range









- Mechanical buttons
 - 4 buttons | 6 buttons (left/right) | 8 buttons
- RGB signalling Leds on buttons
- RGB Led bar with Capacitive Swiper

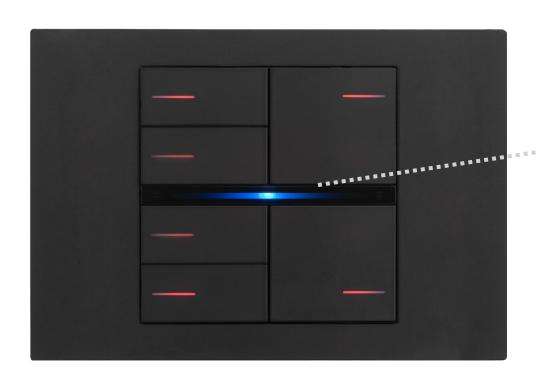
REGULAR FENIX METAL

2 & 3 MODULES VERSION

RGB LD BAR with Swiper function

OL – U range





Multifunctional Capacitive Bar able to manage:



Gestures (fast R, L) → scenarios (Welcome, IN, ...)





Low Swipe → dimming, temperature, set-point, colour

A unique touch interface.

Enhance environmental control trough the central bar that serves as a guide for effortless adjustment



More than a gesture

OL – U range





• Single tap (L/R)



Double tap (L/R)



Slow swipe



Fast swipe (L/R)



Thermostat overview

OL – U range



- Mechanical buttons
 - 4 buttons
- RGB signalling Leds on buttons
- RGB Led bar with Capacitive Swiper



2 & 3 MODULES VERSION

Multisensor overview

OL – U range



- Temperature + Humidity + CO2
- Mechanical buttons
- 4 buttons
- RGB signalling Leds on buttons
- RGB Led bar with Capacitive Swiper
- Matte varnish plastic

REGULAR

THERMOSTAT + HUMIDISTAT + CO₂

Multisensor





OL – U Display

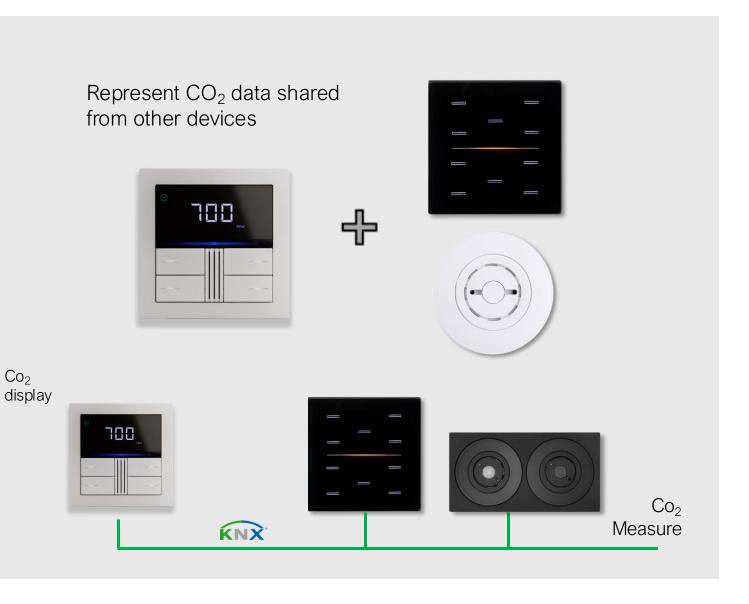






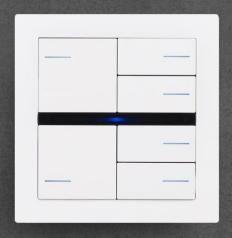


OL-U Multisensor Humidity, Temperature, CO₂



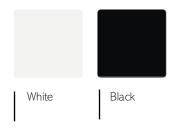
Materials and versions





REGULAR Version

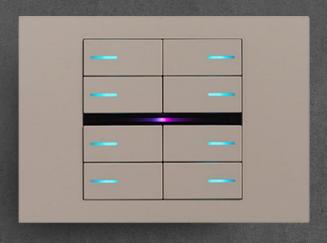
Available colours - Painted plastic



Materials and versions

OL - U range





FENIX Edition

Available colours - **FENIX**®



FENIXTM innovative material (NTM nano tech matte)

Created with proprietary technology, the external surface of FENIX is characterized by the use of new generation acrylic resin, hardened and fixed through a process called Beam Curing.

At first glance, the surfaces impress with their super matt appearance. Touching it, you feel the pleasant soft touch effect, with the added surprise of not leaving fingerprints. Thermal repairability of surface micro-scratches is also possible.



low light reflection, extremly matte



softness to touch



anti fingerprints



thermal repairability to superficial scratches

https://www.fenixforinteriors.com

Materials and versions





METAL Edition

Available colours - Brushed metal



customized through laser engraving with text or icons, even in backlit mode.

OL – U range



Going double frames

horizontal



71 x 71 mm + 71 x 71 mm



71 x 71 + 45 x 45 mm



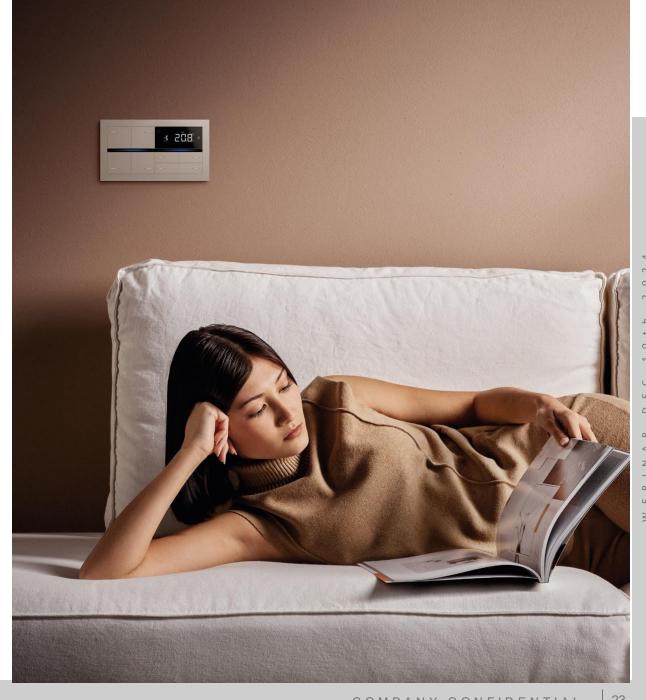
55 x 55 + 55 x 55 mm



71 x 71 + 55 x 55 mm



45 x 45 + 45 x 45 mm



Going double frames

vertical



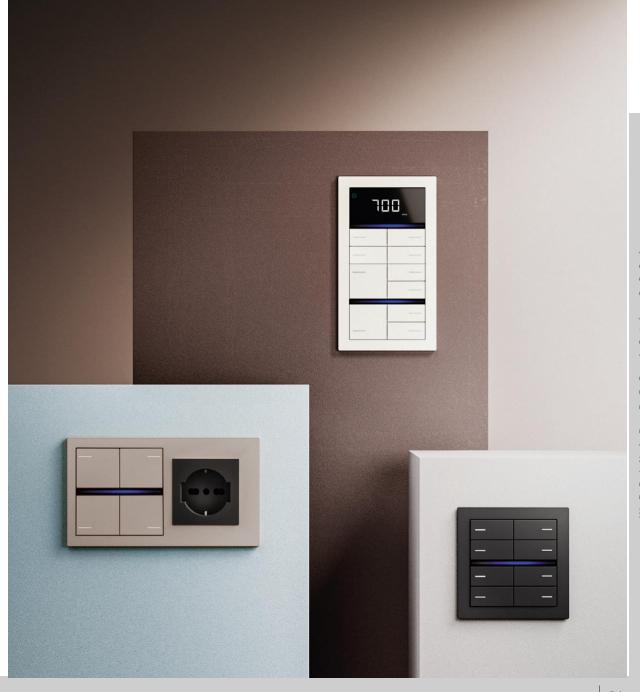




71 x 71 mm + 71 x 71 mm

71 x 71 mm + 71 x 71 mm

71 x 71 + 55 x 55 mm



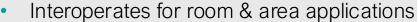
ETS Programming tool and













ETS 6.x ready









WORKS WITH OVERALL EELECTRON PORTFOLIO PRODUCTS/APPLICATIONS AND SOLUTIONS



The OL-U range wins the German Design Award 2025 in the Excellent Product Design - Building & Elements category.

OL-U represents a unique solution that combines advanced technology, customizable aesthetics and intelligent functionality, designed to improve the comfort and efficiency of environments.





"The OL-U series impresses with its sophisticated technology and scalable, well-thought-out design for a uniform look in the smart home."

reddot winner 2024



MODULAR BUILDING AUTOMATION &

Generating DATA HIGHLIGHT

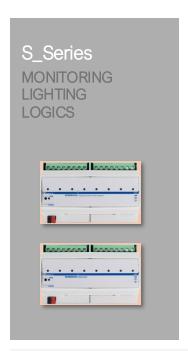
2024

Portfolio: actuators & connectivity evolution

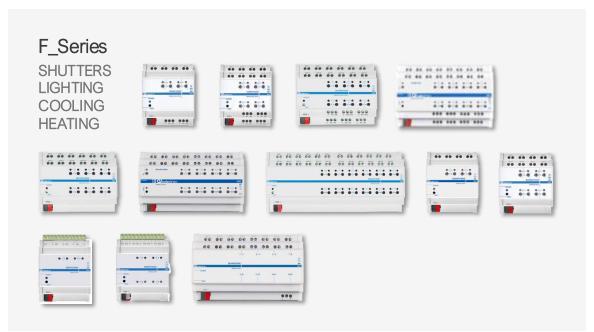






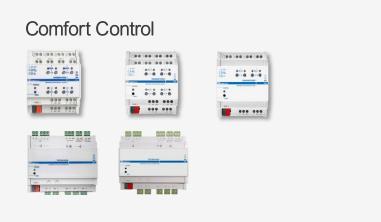


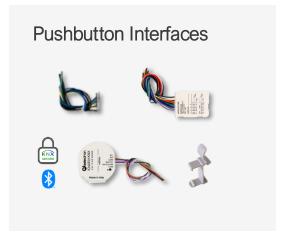




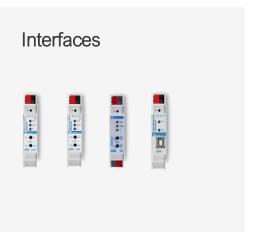












8 Outputs

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S 0 2

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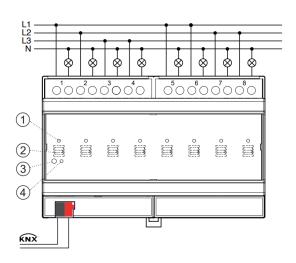
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0

 $_{\Omega}$

20A Actuator Model





- The device does not require an additional power supply and is ready for immediate use, after the bus voltage has been applied
- ✓ The front panel is removable, allowing the operator to manually operate on the tab switch even if the device is knx-unplugged (only after disconnecting the power supply to the loads and disconnecting the mains voltage)
- Counter functions
 # of commutations
 - energy meter counter
- Logic features: 8 logic blocks: simple expressions with logical or threshold operator or complex expressions with algebraic and conditional operators
- √ Heartbeat function ready

20A RELAYS FOR EACH OF THE 8 CHANNELS

8 Outputs

 \times

Z

 \leq

0

S

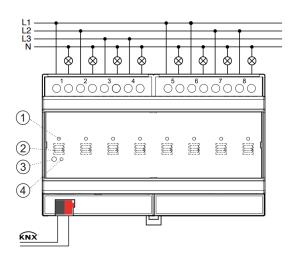
 ∞

0

0 8

OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8 OUT6 OUT7 OUT8 OUT6 OUT7 OUT8 OUT6 OUT7 OUT8 OUT7 OUT8

20A Actuator with current sensing



- The device does not require an additional power supply and is ready for immediate use, after the bus voltage has been applied
- ✓ 20A relays for each of the 8 channels
- ✓ The front panel is removable, allowing the operator to manually operate on the tab switch even if the device is knx-unplugged (only after disconnecting the power supply to the loads and disconnecting the mains voltage)
- Counter functions# of commutationsenergy meter counter
- Logic features:
 8 logic blocks: simple expressions with logical or threshold operator or complex expressions with algebraic and conditional operators
- ✓ Heartbeat function ready

CURRENT SENSING FEATURE OF EACH RELAY OUTPUT WITH "**TRUE RMS**" METHOD (RMS = ROOT-MEAN-SQUARE VALUE)

"The Bridge" at a glance

IPSBA01KNX IPSBA02KNX





WHAT

- Direct KNX* connection as IP and TP
- **MQTT**included on IPSBA01KNX
 - KNX power supply / auxiliary output up to 640 mA
- Compact 4 DIN RAIL module

WHY

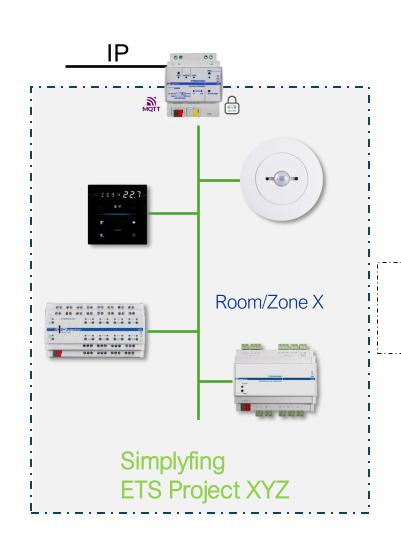
- Lower installation efforts
- Local Schedules, Diagnostic and other functional blocks
- KNX TP devices off-on line detection
- ETS database fully programmable

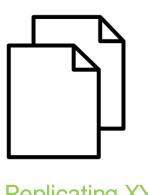
AN INNOVATION, ANSWERING TO BUILDING AUTOMATION AND DATA COLLECTION FOR DIGITAL APPL.



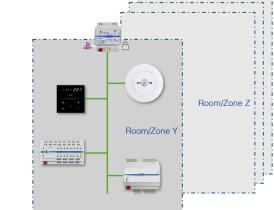
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ETS Project – Some Key Benefits with bridge IP









Replicating XYZ ETS Project

With Bridge IP same devices of different Rooms/Zones types are commissioned with same Group Address
And monitored with diagnostics (on-line/off-line)



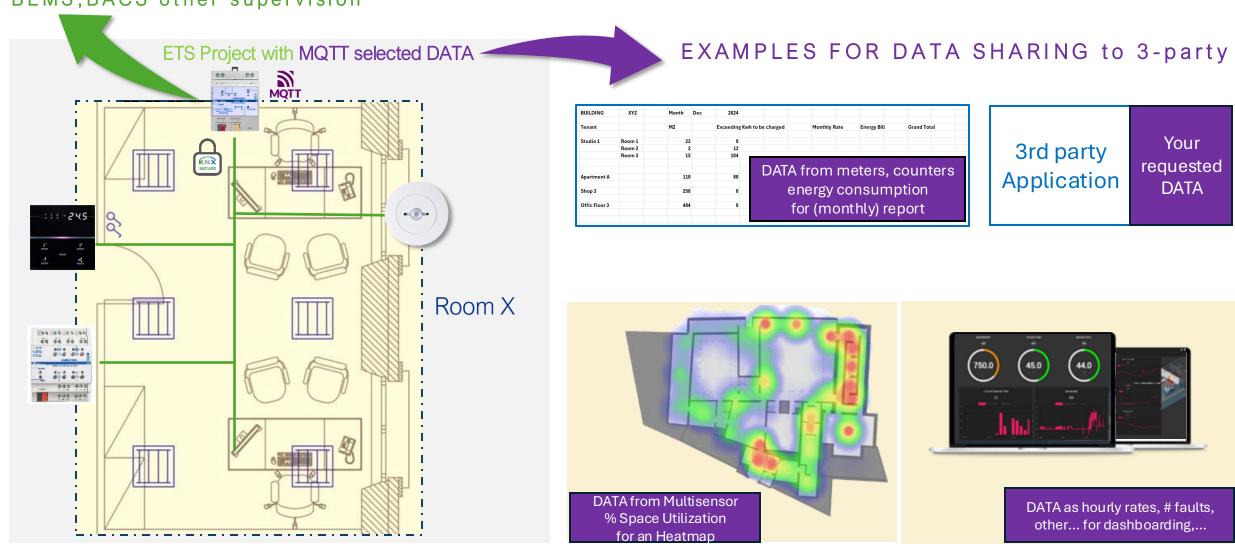


Reduce operating downturn each model has devices with same group / address

EASY TO DESIGN AND SMART TO PROGRAM!

Smart Automation in the era of data generation & sharing requests

BEMS, BACS other supervision



EXTENDING CONNECTIVITY AND ENABLING NEW APPLICATIONS



Why Bridge IP





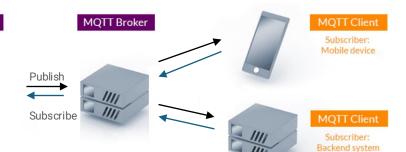






MQTT Client

ightarrow Connect to the IoT World











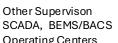






SCADA, BEMS/BACS **Operating Centers**

Other devices as Engines, Edge, Controllers and actuatos





RELIABLE & SMART BUILDING AUTOMATION



IP CONNECTED ENABLING DIGITAL APPLICATIONS



AUTOMATION & CONNECTIVITY

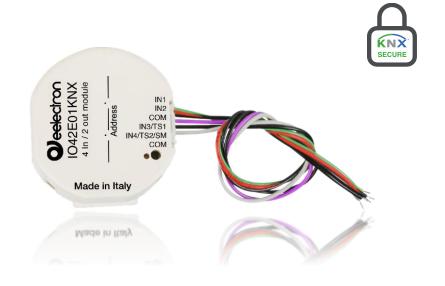
KNX & KNX SECURE HIGHLIGHT

2024

Universal Inwall Module 4 IN & 2 OUT

4 Inputs – 2 Outputs

042E01KNX





Device 2 outputs on board can be configured

 Each output can be configured independently for load control (2 independent channels)

Input from heat/cooling and electrical pulse counters

- Outputs can be configured in pairs for the roller shutters and blinds (1 channel)
- For controlling a servomotor, in pairs
- For logic interlock control

CURRENT STAGE IT REPLACES 1032 DEVICE

K_Series for 12-24 V DC applications

4 OUT 24 Vdc





An actuator for controlling DC motors dedicated for

- blinds or shutters
- motorized air grilles
-

Allows control of 12-24 V DC drives with a load capacity of max. 6A per contact.

Functions: logic, scenarios, thresholds, alarm and timers, two-point control

EXTENDING ACTUATORS RANGE





A binary input module equipped with 8 high-voltage inputs.

The inputs are protected against voltage from 100 to 250 V AC/DC.

- Logics and scenarios management fuctions
- High distances managed with no interferences, induction problems...
- Suitable for electrical cabinets or retrofitting installation
- Simple voltage detection (monitoring)

EXTENDING ACTUATORS RANGE

Gateway KNX TP and BACnet IP – IC01E01BAC



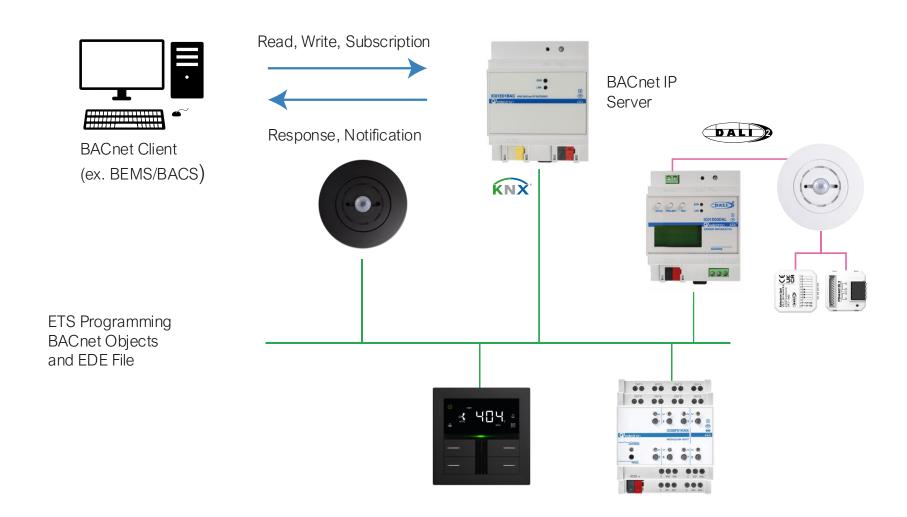
The IC01E01BAC gateway is an interface between KNX TP and BACnet IP.

Configured KNX communication objects are converted into BACnet objects and can therefore communicate with third-party devices in the architecture.

BTL Certified

ETS FULLY PROGRAMMED

A layout example as ETS project



ASK FOR SUPPORT TO NEAREST EELECTRON REPRESENTATIVE

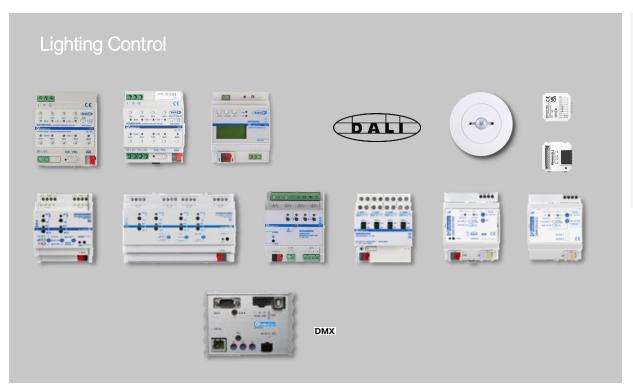


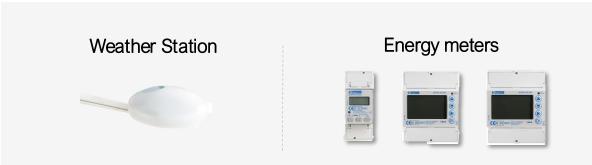
SMART BUILDING CONTRIBUTION

LCS HIGHLIGHT

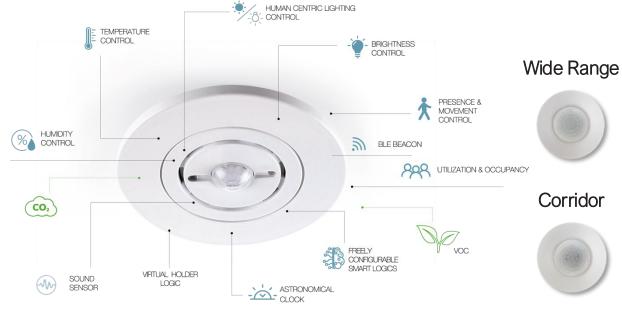
2024

Portfolio: product range in expansion & «big-data generation»

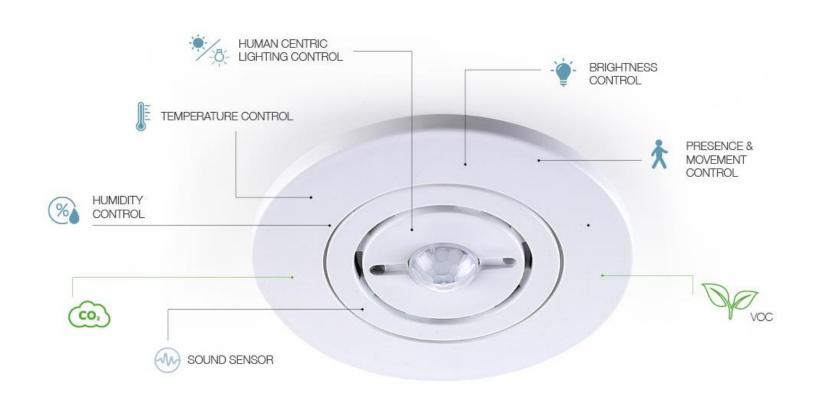








Focus on DALI-2 - Sensors



CERTIFIED

The DALI-2 presence sensors STANDARD and MULTISENSOR include a **brightness sensor** for environmental lighting control.

The MULTISENSOR version includes humidity and temperature sensors with the relative control algorithms and a sound sensor that can be used as part of presence detection or other applications

DALI-2 Presence detectors & MultiSensor













DALI-2 Presence Detector **Standard** with Lighting Control B/W



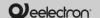




PD00A02DL2-1

DALI-2 Presence Detector **MultiSensor** Lighting, Temperature,
Humidity, Sound, B/W

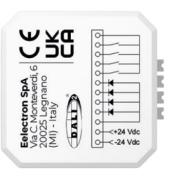
INTRODUCING DALI-2 MULTI-SENSORS



DALI-2 Pushbutton interfaces DALI



The pushbutton interfaces integrate up to four conventional lighted pushbuttons into one DALI channel, managing different buttons states. The **PB44A01DL2** version also integrates 4 LEDs which can be powered by connecting the interface to an auxiliary line, reducing consumption on the BUS.



Dali 2 Push Button Interface 4 INPUT



Dali 2 Push Button Interface 4 INPUT / 4 LED





DALI-2 CERTIFIED



W = W = W = W = W = W = W

KNX DALI GATEWAY TW 1CH KNX DALI GATEWAY TW 2CH

KNX/DALI GATEWAY

1 CH MultiMaster







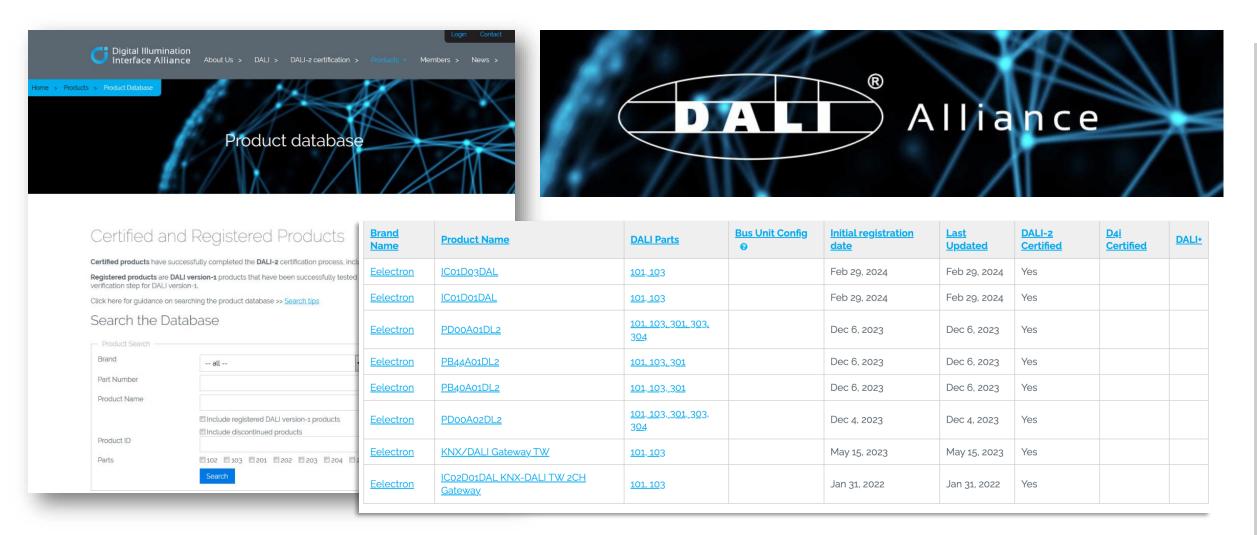
IC01D01DAL

IC02D01DAL

IC01D03DAL

THE POWER OF DALI AND KNX IN DIGITAL LIGHTING SOLUTIONS

List of DALI certified eelectron products



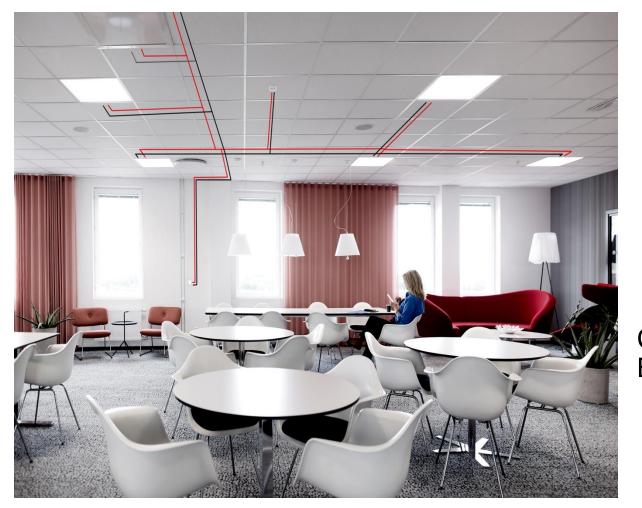
https://www.dali-alliance.org/



EBINAR DEC 10th 2024

Contributing to Lighting Control Systems with a prevalent DALI-2 based approach

DALI ceiling wiring

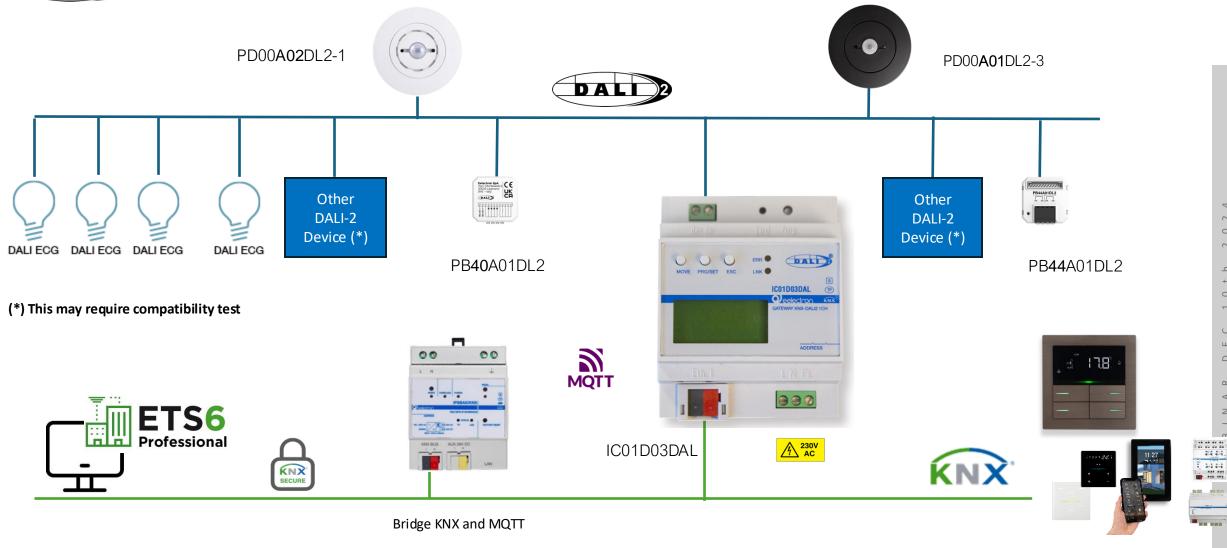


Mainly PIR and Lux Sensors

Connectivity to BEMS/BACS

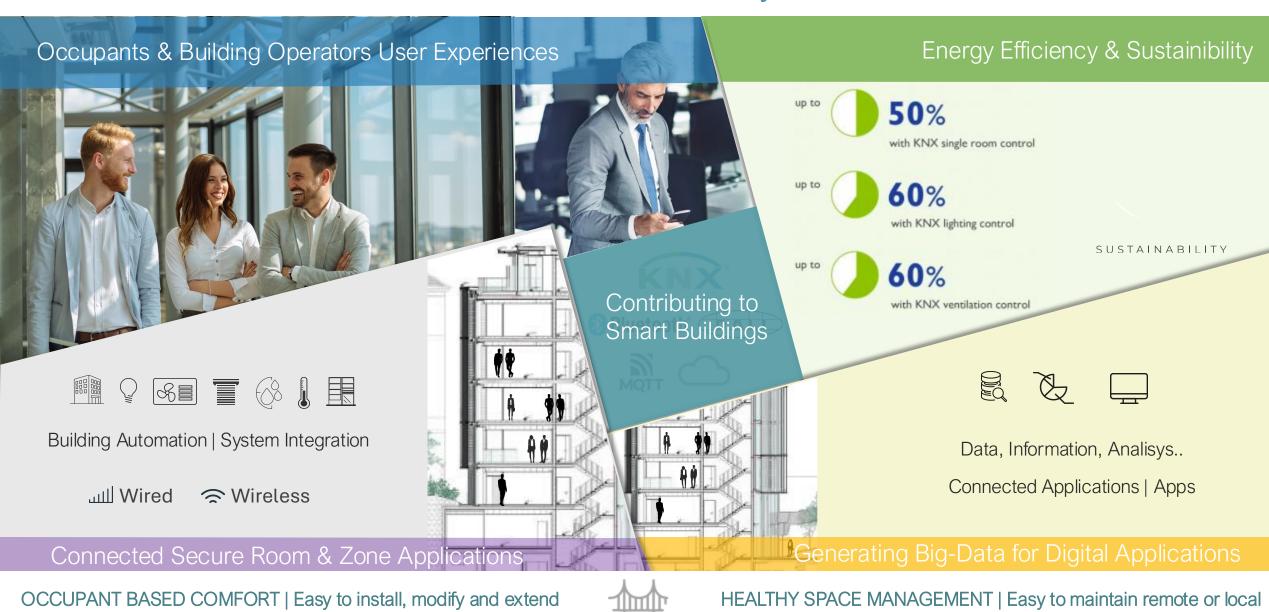
Pusbutton Lights only

LCS configuration with knx interoperability example



DALI-2 GATEWAY TO KNX FOR SUPERVISION OR TO INTEROPERATE WITH OTHERS SUBSYSTEM

Qeelectron Portfolio – Key Benefits





Discover "ready to use" Technical & Sales Marketing Tools

PRODUCTS & SOLUTIONS CATALOGUES













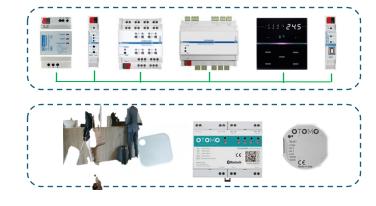












DEMO PACKAGES & DEMOCASES

KIT FOR LAB TEST OR QUICK SHOWROOM SETUP

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https://www.eelectron.com/en/newsletter/



See you NEXT

You can see all of this at ...





next webinars from January 2025



What's NEXT

Continue to stay in contact with us in 2025...

(Secure) KNX products evolution

DALI-2 expansion

Multisensors Add-on

Hospitality Solution Updates

Others in development

New Vertical Markets Solutions Brochure

Presentations for Applications

Technical Catalog My25 Updates

More to come

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