



MM & GRANDEE KNX PRODUCT CATALOGUE



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Stronger
Together

Smarter
Tomorrow

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Company Profile

MM Electro is a manufacturer specializing in advanced KNX home and building automation solutions. Founded by a team of experienced professionals, MM Electro combines decades of industry knowledge with a clear understanding of real-world market needs. Our mission is to simplify and enhance how people interact with living spaces by optimizing everyday processes through intelligent automation.

Grandee Technology is an IoT solution provider and the sister company of MM Electro. Together, MM Electro and Grandee Technology complement each other by delivering integrated products, system solutions, and professional services.

We offer a comprehensive range of KNX products designed to meet diverse project requirements. Our portfolio includes high-end touch panels, switches, controllers, gateways, and sensors, ensuring compatibility and flexibility across different applications. In addition to KNX solutions, we also provide systems based on DALI and other automation standards. To support our partners further, we offer specialized services such as KNX training and consulting, enabling the effective use and optimization of automation systems.

TRUST-CENTRIC **APPROACH:**

At MM Electro, trust is a fundamental part of our business philosophy. With extensive experience in international trade, we approach commercial and technical challenges with clarity, reliability, and transparency. Our customer-centric approach ensures that our partners feel confident in every collaboration and receive consistent value over the long term.

PARTNER-ORIENTED **BUSINESS MANAGEMENT:**

- **Uncompromising Quality:** Quality is not merely a standard at MM Electro; it is a core principle. We maintain high standards at every stage of our work, paying close attention to detail and consistency to deliver reliable results.
- **Innovation in Protocols:** With expertise in KNX, DALI, and CASAMBI protocols, we provide cutting-edge products and solutions that meet evolving industry requirements and support future-ready automation projects.
-

Global Network

We work closely across logistics, sales, marketing, and technical teams, with a strong focus on international dealers and project-based operations. Supported by our expanding dealer network, we are trusted in many countries and serve a growing base of satisfied customers.

We develop product models that meet both the technical and commercial requirements of our global partners. By transferring regional expertise and market advantages across different regions, we support commercial development and help our partners expand their business reach.



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Why Solution

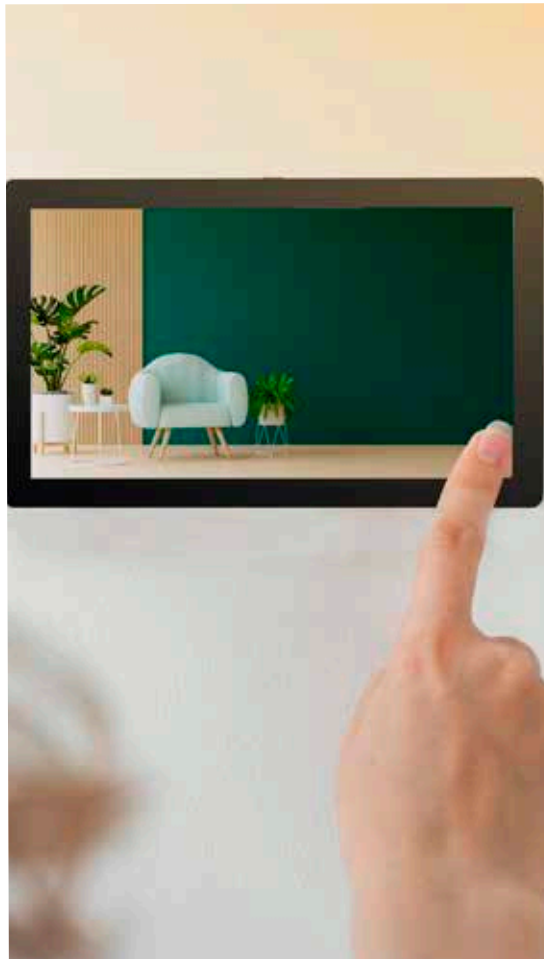
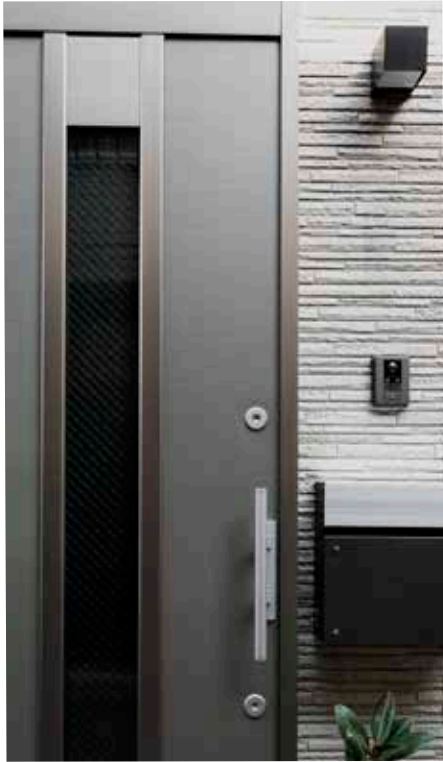


Every space has its own needs a home, a hotel, an office. That's why we don't offer a product; we offer a solution. We say "solution" because smart systems take shape differently in every project. As lifestyles, energy use, and comfort expectations change, the system evolves too. From EV charging stations to climate control, every detail is designed around real needs. For us, the problem is complexity, inefficiency, and wasted energy.

MM & Grandee Smart Solutions eliminate these challenges, combining comfort, safety, and efficiency in one. And in every project, we ask ourselves just one question: **"If we lived here, how would we want it to be?"**

That's how we design the smartest solution for every space.

Home Solution



Lighting, curtain/blind control, heating and cooling, security, energy monitoring, and audio-visual systems are all managed from a single center. The user can control every area through a mobile app or a touch panel.

These solutions aim not only for comfort but also for sustainability. They optimize energy consumption, prevent unnecessary usage, and make the living space truly "smart."

Many different systems work in harmony — performing their tasks seamlessly, often without you even noticing.

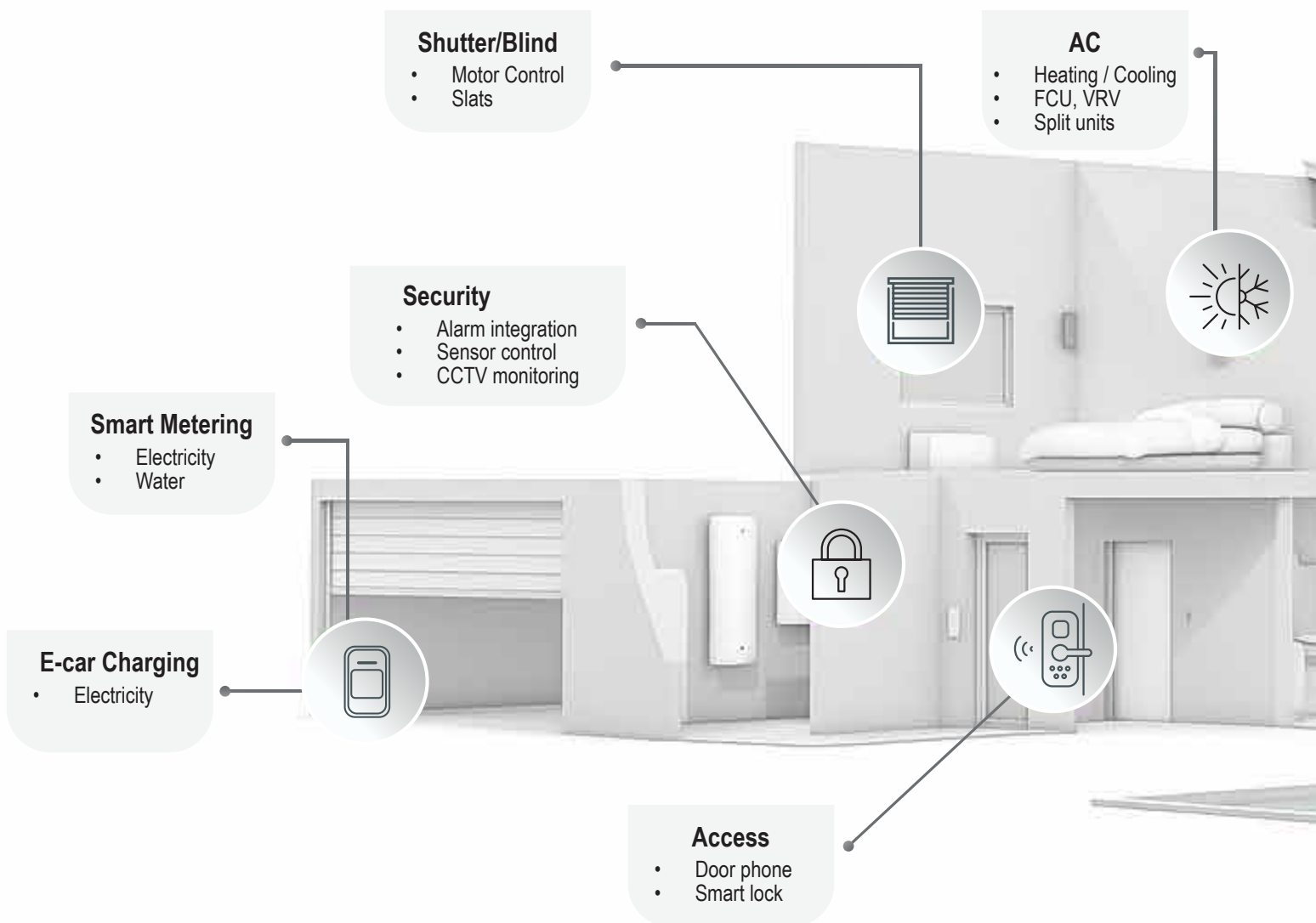
THERMOSTATS FEATURES
TEMPERATURE
LOGIC APPLICATIONS
2X DIGITAL ANALOG INPUTS



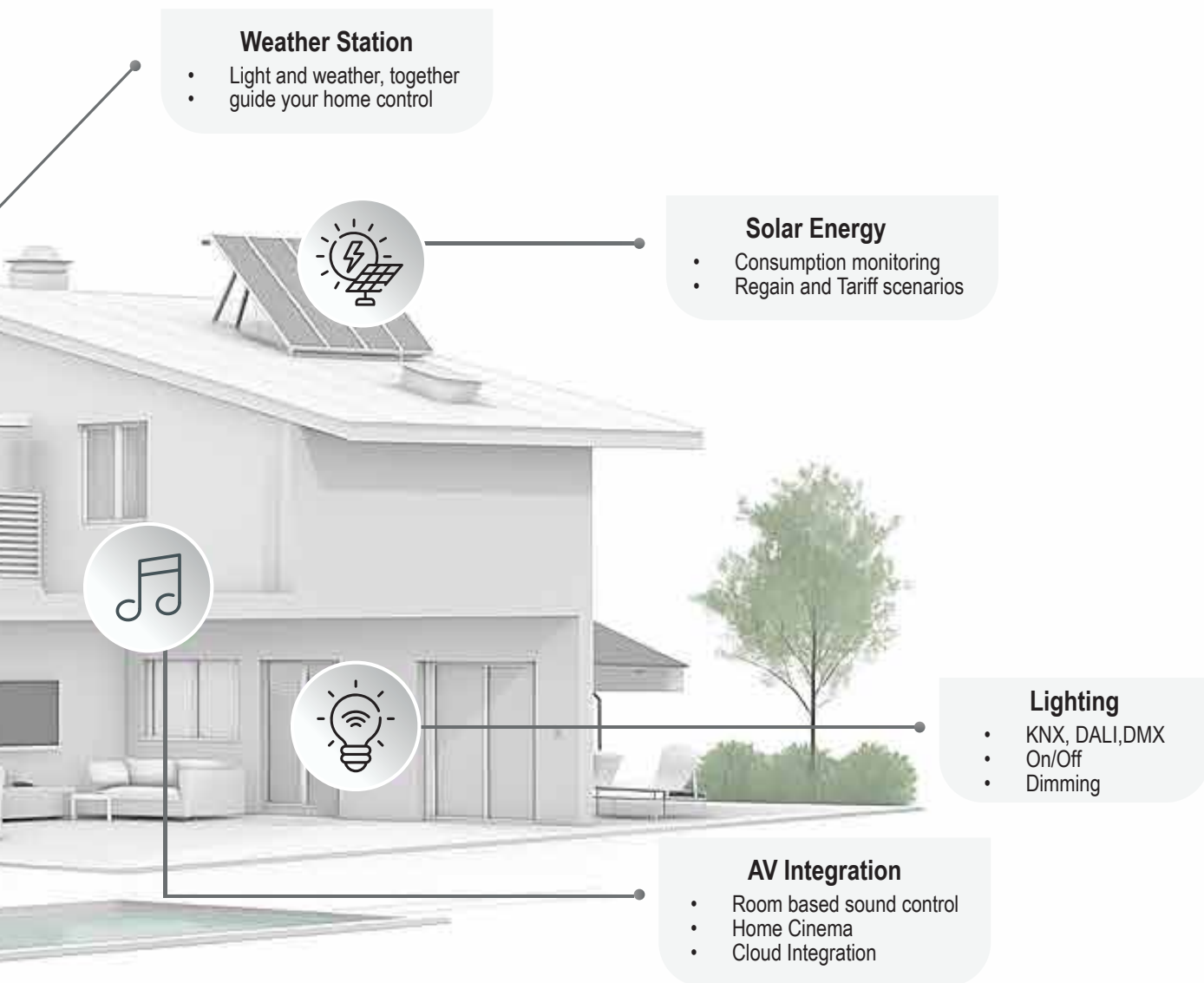
DORA ANTIQUE BRONZE
MMI-4T-48-1AB

**ENERGY
SAVING/MANAGEMENT
COMFORT
SECURITY
E-MOBILITY**

Controls Of Smart Home



Automation is mainly controls on Lighting, Shutter/blind and AC systems. But we go beyond this.



We offer solutions that meet all the needs of modern living under the KNX framework. In addition, our systems are designed to be flexible, scalable, and open to future innovations and expansions.

Hotel Solution

SMART HOSPITALITY, IN HARMONY WITH TECHNOLOGY

Smart Hospitality, in Harmony with Technology
Hotels are living systems - dynamic environments where technology and human experience must coexist in perfect harmony.

MM & Grandee Smart Hotel Solutions bring this balance to life by combining energy efficiency, guest comfort, seamless integration, and elegant design. From intelligent room control to full GRMS management, every element is designed to simplify operations and elevate the guest experience. Automation doesn't just enhance comfort - it transforms efficiency.



Studies show that hotels implementing advanced room automation and occupancy-based control systems can achieve: 10-30 % savings in HVAC energy consumption, up to 60 % savings in lighting, and an overall 20-25 % reduction in total energy use.

Implementing open-standard systems such as KNX can further increase subsystem efficiency - delivering up to 50-60 % energy savings in lighting, ventilation, and shading.

These improvements not only lower operational costs but also elevate sustainability standards across the hospitality industry.

Our philosophy is simple: technology should serve hospitality, not complicate it.

Hotel Solution

MM & GRANDEE SMART HOTEL SOLUTIONS

1. ENERGY EFFICIENCY AND INTELLIGENT MANAGEMENT

Energy efficiency lies at the heart of our hotel automation philosophy. Our goal is to manage consumption intelligently while providing guests with the most comfortable stay possible. Instead of conventional energy savers such as card holders, we design card-free, sensor-based room solutions that detect occupancy and adjust systems automatically. This ensures optimal energy usage without sacrificing guest comfort or operational flexibility.

2. GUEST EXPERIENCE AND COMFORT

True comfort is effortless. Our room control systems are designed to be intuitive, clear, and accessible for guests of all ages — eliminating complexity and enhancing the experience. Every automation scenario, from lighting to temperature, is programmed to increase comfort, not limit it. Energy saving is achieved quietly in the background, while the guest enjoys a seamless and personalized environment.

3. INTEGRATION AND DATA SECURITY

A modern guest room is a living ecosystem — where lighting, climate, and audio systems work together. Our KNX-based infrastructure allows full integration between all these subsystems, ensuring smooth operation and unified control. At the same time, data privacy and guest security are non-negotiable: we do not rely on voice-activated or cloud-dependent tools that may compromise personal information.

4. CENTRAL MANAGEMENT AND GRMS

Our solutions deliver a complete Guest Room Management System (GRMS). Hotel management can monitor room status, comfort settings, and energy savings from a central interface. Integration with hotel PMS, housekeeping, and maintenance systems ensures efficiency across all departments — enabling faster service, better control, and lower operational costs.

5. LUXURY AND AESTHETIC HARMONY

Technology should never disrupt elegance. All visible devices — switches, sockets, thermostats, and control panels — are designed in matching colors and finishes, creating a unified look across every room. MM & Grandee offers KNX-certified products that meet international standards and combine luxury with precision engineering. The result: a refined interior where design and intelligence coexist perfectly.

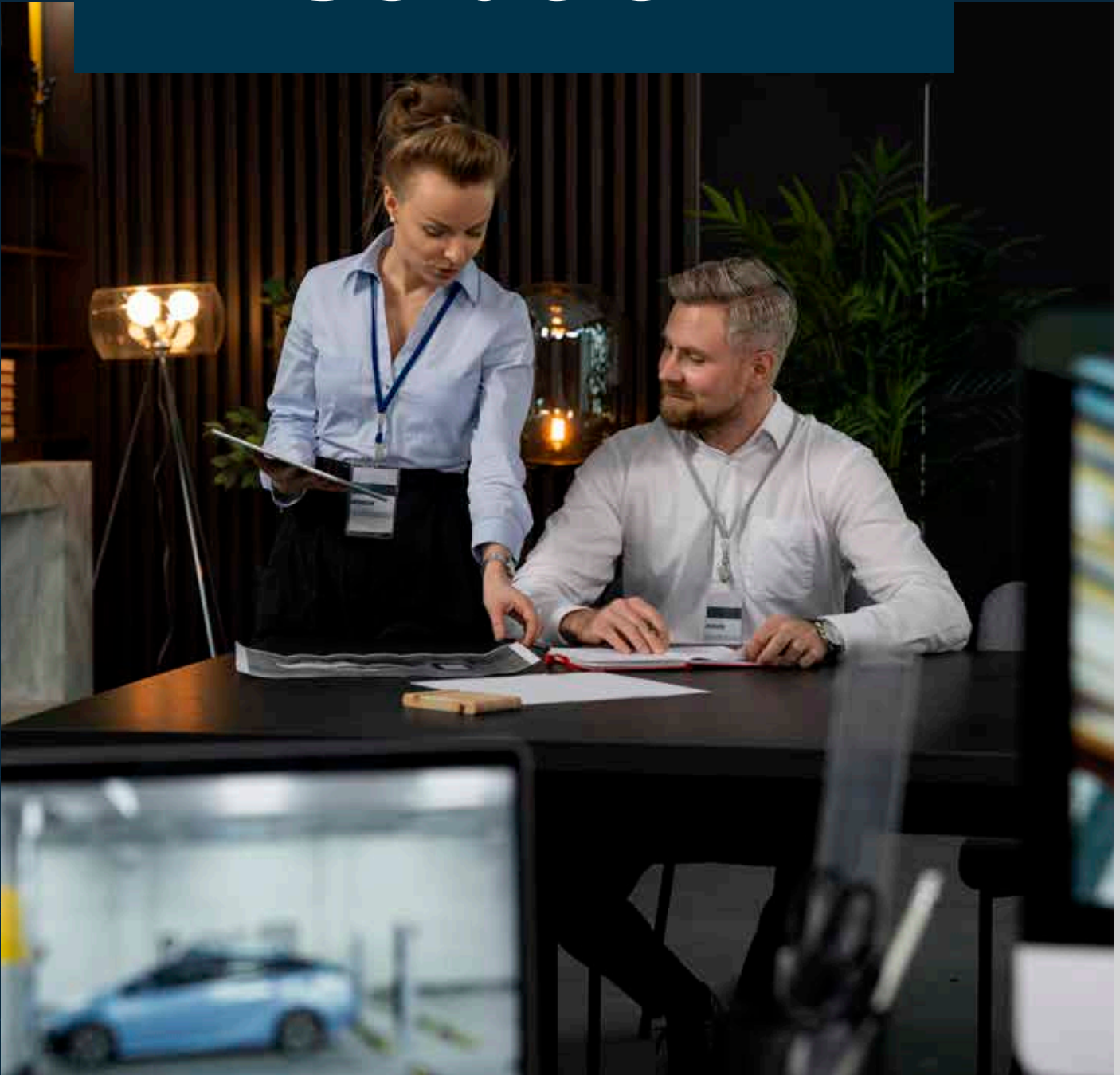
6. DOOR LOCK AND DND SYSTEMS

Our automation infrastructure is designed to seamlessly integrate with hotel door lock systems. DND (Do Not Disturb) corridor panels are available in both standard and project-specific designs, offering flexibility for different hotel concepts. This integration ensures efficient room management and a smooth guest experience from check-in to check-out.

7. COMMON AREAS

Public spaces are the heart of every hotel — lobbies, corridors, restaurants, and meeting areas. These zones are managed through KNX and DALI-based control systems, providing complete command over lighting, HVAC, and ambiance. This ensures consistent aesthetics, energy optimization, and full operational control throughout the entire property.

Office Solution



MM & GRANDEE COMMERCIAL & OFFICE SOLUTIONS

Modern office and commercial buildings are no longer static structures — they are dynamic environments that demand energy efficiency, flexibility, and intelligent comfort management. Our Solutions, powered by the open-standard KNX technology, deliver a unified automation ecosystem that integrates lighting, HVAC, shading, ventilation, and security — all working together to create sustainable, efficient, and comfortable workplaces.

INTELLIGENT ENERGY MANAGEMENT

Energy efficiency is not only a goal — it is a responsibility. With occupancy-based control, daylight harvesting, and automated ventilation, KNX systems can reduce total building energy consumption by up to 30 %, as demonstrated in ABB-based commercial installations compliant with EN 15232 European Building Automation and

ENERGY EFFICIENCY STANDARD.

A productive workspace starts with a healthy indoor environment. KNX devices intelligently balance temperature, air quality, and lighting to maintain optimal working conditions at all times.

For example:

- Air-quality sensors in ventilation ducts monitor CO₂ and humidity levels, automatically adjusting fan speeds for clean, fresh air.
- Presence detectors regulate lighting and HVAC based on occupancy, saving energy when rooms are unoccupied.
- Window-contact sensors interact with thermostats to shut off heating automatically when a window is opened.

INTEGRATED CONTROL AND FLEXIBILITY

Every system in the building — lighting, shading, HVAC, and ventilation — is interconnected and centrally supervised through one network. Facility managers gain full visibility over energy performance, occupancy data, and maintenance needs, improving both sustainability and operational control. The modular and scalable architecture of KNX ensures that buildings can easily evolve as needs change, without costly rewiring or reprogramming.

SAFETY AND COMPLIANCE

MM & Grandee's KNX-based infrastructure fully supports integration with fire detection, access control, and emergency lighting systems. This guarantees compliance with international safety standards while ensuring a fast, coordinated response to any incident.

APPLICATIONS

- Corporate offices and headquarters
- Public and government buildings
- Hospitals, schools, and universities
- Commercial centers and industrial facilities

Touch Panel



Visualisation of automation



IP camera monitoring



Cloud (Skythings)



Door Phone client



5 Point Multi touch



Concierge



PoE



5 Point Multi touch



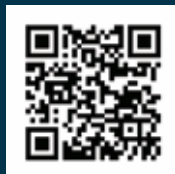
Mobile server



Frame Option



Built-in KNX



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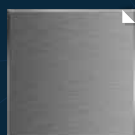
MODERN & ELEGANT DESIGN

ENGI Touch Panel combines a sleek frame with precision-crafted materials, delivering a stylish control point that elevates any interior. Its minimal lines, high-resolution IPS display, and ultra-thin structure blend seamlessly into contemporary architectural environments.

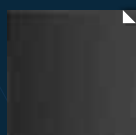
Beyond its elegant appearance, ENGI is engineered with high technical capability, offering fast performance, responsive touch interaction, and stable long-term operation – making it suitable for both residential and commercial smart automation projects.

The panel also supports multiple communication protocols, allowing seamless integration with a wide range of smart home ecosystems and third-party devices. This flexibility ensures future-proof installation and maximum compatibility.

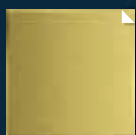
10"



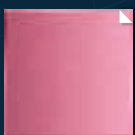
Silver



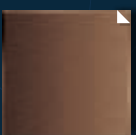
Black



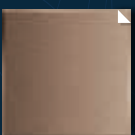
Gold



Pink



Copper



Bronze



Red

FLEXIBLE FOR EVERY SPACE

With multiple size options, elegant finishes, and strong communication capabilities, ENGI Touch Panel fits effortlessly into homes, offices, hotels, and high-end commercial projects — delivering both aesthetics and reliable full-scale functionality.

MODEL VARIATIONS

To meet different installation needs, ENGI Touch Panel is available in three screen sizes:

- 4" Compact Model — ideal for corridors, small rooms, and retrofit applications.
- 8" Medium Model — perfect for living areas that require expanded control.
- 10" Large Model — designed for villas, open-plan spaces, and commercial environments where enhanced visibility is essential.

All models provide the same smart functions, scaled to different use cases.

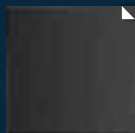
8"



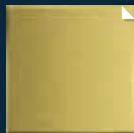
4"



Silver



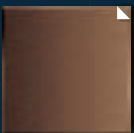
Black



Gold



Pink



Copper



Bronze



Red



Compatible Protocols

KNX

MQTT

Works with
Apple Home

iNELS

IFTTT

ASHRAE
BACnet™

Modbus

Shelly

works with
GoogleHome

bticino

ZigBee

Compatible AC Systems

MITSUBISHI
HEAVY INDUSTRIES

Panasonic

LG

MITSUBISHI
ELECTRIC

DAIKIN

HITACHI

arçelik

TOSHIBA

Hisense

SANYO

SAMSUNG

Touch Panel OPT



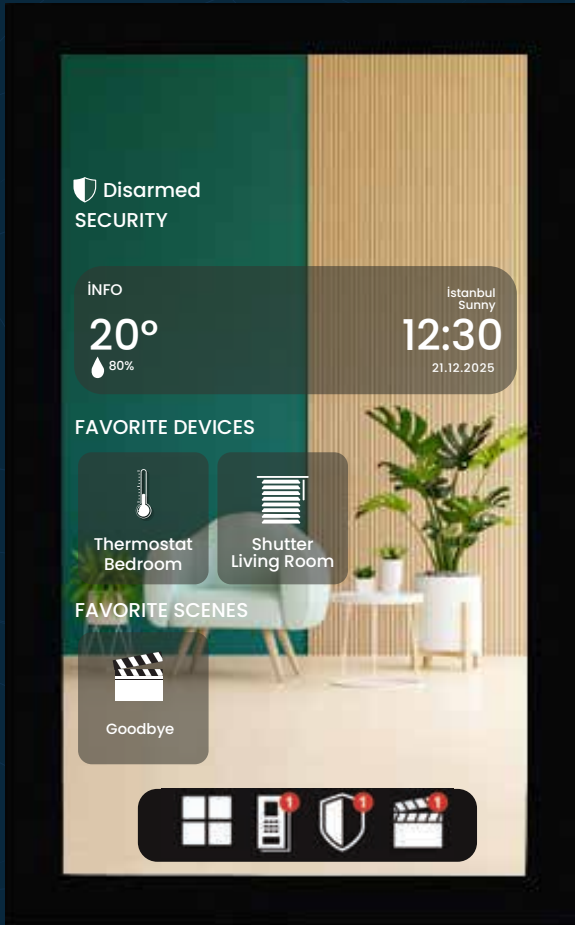
- KNX TP
- Door phone client (Call on mobile)
- Mobile Server
- **Audio Streamer Integration**
- **Core Cloud features**
- **Digital I/O**



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With a single user-friendly interface, the OPT panels provide centralized management of security, lighting, HVAC, shading systems, and more. OPT Touch Panels are made to make smart living easier and more enjoyable, whether you're controlling the atmosphere of a single room or the entire house.

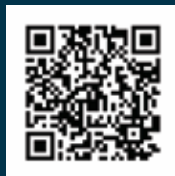
The 8-inch model provides the same capability in a more compact configuration, making it excellent for smaller spaces and minimalist settings, while the 10-inch variant's broad display makes it ideal for bigger rooms and elaborate installations.



OPT Touch Panels enhance your smart home by putting sophisticated automation, elegance, and convenience at your fingertips. Use OPT's power to change your space and take charge of your life.

Integration Based on KNX Smooth automation and complete compatibility with KNX systems. Easily manage lighting, air conditioning, curtains, security, and more. Adaptable Interface, Customize layouts, controls, and icons to create a unique user experience. Modern Style, By using sturdy materials and a beautiful design, it enhances the visual appeal of your house.

Simple Installation, It's simple to begin with quick commissioning and installation procedures. Features of Mobile Control and Intercom (Door phone) With Mobile App, you won't miss any more guests or shipments. Whether you are at home or on the other side of the globe, use Mobile App to promptly respond to guests at your door.



Dora



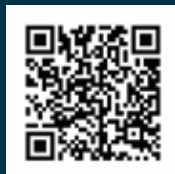
Dora KNX Switch Series is our proprietary product line, designed to deliver enhanced comfort through both keypad and thermostat models.

The series offers a premium material selection with 10 metal color options and 3 plastic color alternatives, allowing seamless integration with different interior designs.

All models are equipped with two configurable inputs, each selectable as digital or analog, providing extended flexibility for various application scenarios. Dora enables intuitive control of lighting, climate systems, and curtains/blinds, all from a single interface.

In thermostat-equipped models, the display features a fully touch-enabled interface, ensuring a modern user experience with precise and effortless control.

With its newly developed software, the Dora series has evolved into a highly powerful and flexible control solution, meeting the demands of contemporary smart living environments.



MODELS AND TYPES

the online configurator that lets your customers tailor Dora switch and control solutions to match any interior style. By simply entering the page, they can choose the Dora product type and variant they want, then build their preferred design step by step with a clear, visual workflow. With full customization, they can add custom text and icons on each button, then finalize the look by selecting button colors and frame colors from a wide range of available options. The result is a truly personalized Dora design that reflects the space, the user's taste, and the project's overall concept. Use QR code for Web page.



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Custom Design By Dora Designer



DORA KEYPAD



Max 8 Button



Double 2/4



Cross 4/8



Line 4/8

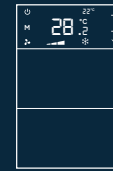


8/8 Full

DORA THERMOSTAT



Max 8 Button



2/4



4/8

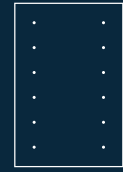


4/8

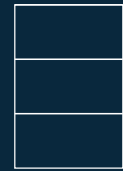


8/8

DORA XL



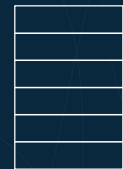
Max 12 Button



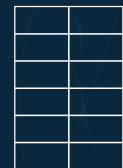
3/6



6/12

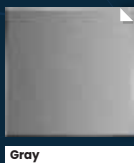


6/12

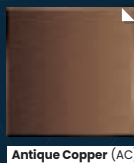


12/12

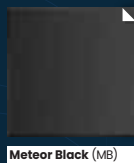
DORA LITE



Gray



Antique Copper (AC)



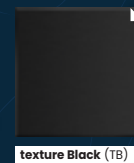
Meteor Black (MB)



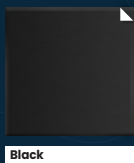
Polar White (PW)



Green Leaf (GL)



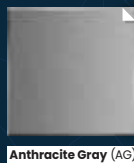
texture Black (TB)



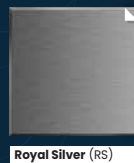
Black



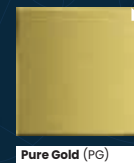
Antique Bronze (AB)



Anthracite Gray (AG)



Royal Silver (RS)



Pure Gold (PG)



Red Cherry (RC)



White

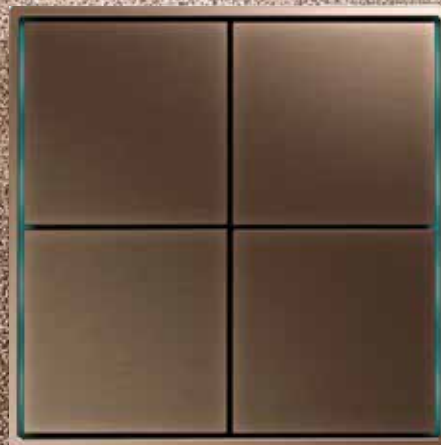
DORA SERIES

SWITCH MODELS

		METAL	PLASTIC
DORA KEYPAD	1/2 GANG BUTTON	MM1-40-24-1XX	MM2-40-24-1YY
	2/4 GANG BUTTON	MM1-40-24-1XX	MM2-40-24-1YY
	3/6 GANG BUTTON	MM1-40-36-1XX	MM2-40-36-1YY
CROSS DESIGN	4/8 GANG BUTTON	MM1-40-44-1XX	MM2-40-44-1YY
LINE DESIGN	4/8 GANG BUTTON	MM1-40-48-1XX	MM2-40-48-1YY
	8 BUTTON	MM1-4T-88-1XX	MM2-40-88-1YY
DORA THERMOSTAT	2/4 GANG BUTTON	MM1-4T-24-1XX	MM2-4T-24-1YY
	3/6 GANG BUTTON	MM1-4T-36-1XX	MM2-4T-36-1YY
CROSS DESIGN	4/8 GANG BUTTON	MM1-4T-44-1XX	MM2-4T-44-1YY
LINE DESIGN	4/8 GANG BUTTON	MM1-4T-48-1XX	MM2-4T-48-1YY
	8 BUTTON	MM1-4T-88-1XX	MM2-4T-88-1YY
DORA XL	12 BUTTON	MM1-40-66-1XX	MM2-40-66-1YY

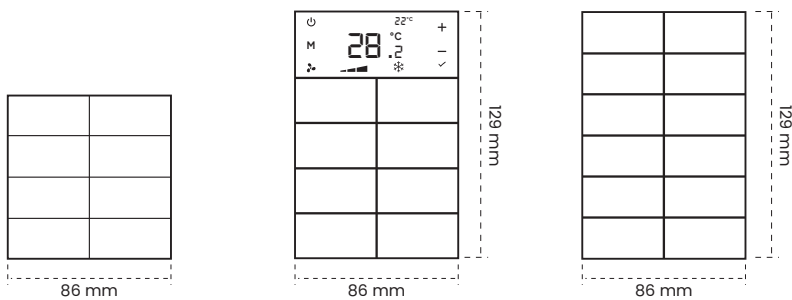
XX: METAL COLOURS (LIKE AB, AC.. PLEASE SEE THE PREVIOUS PAGE)

YY: PLASTIC COLOURS (BA-BLACK, WH-WHITE, GR-GREY)



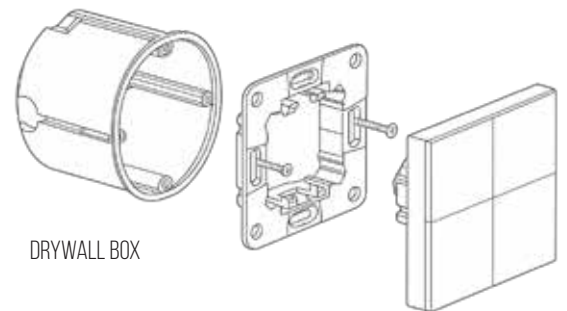
MM1-40-44-1XX

DIMENSION DRAWING

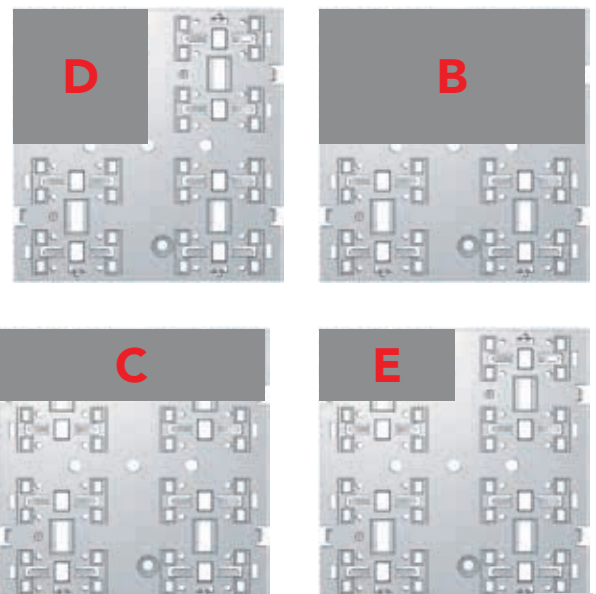
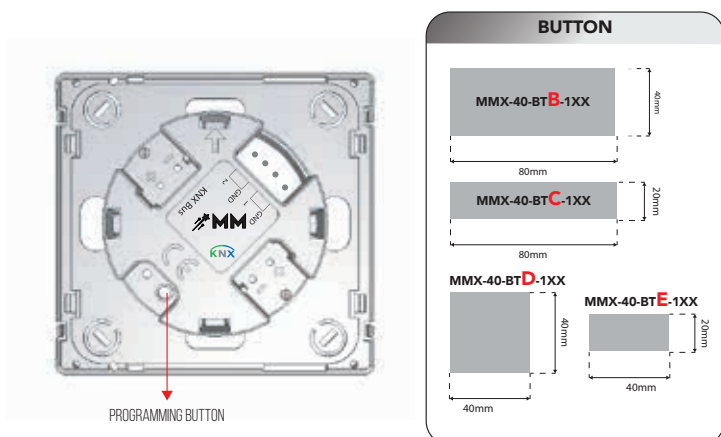


INSTALLATION

DIN 49073
Ø68MM



ROCKER MODELS



PBlock

THERMOSTATS FEATURES
TEMPERATURE
HUMIDITY
LOGIC APPLICATIONS
AIR QUALITY
BACKLIT



PBLOCK KNX

MM2-PB

Options: Keypad, Room thermostat, Air quality (VOC)

PBlock is a versatile KNX switch series designed to meet the needs of various application areas, offering models with 1 to 16 buttons.



Featuring a classic square and rectangular button design, it delivers both a sleek visual appearance and ergonomic usability. The square buttons are designed for vertical (up-down) operation, while the rectangular buttons are intended for horizontal (left-right) use.

The series is available in three different sizes: 80x80 mm, 80x120 mm, and 80x160 mm. Each model comes with a mounting adapter compatible with standard round drywall boxes, like DORA (DIN 49073) and can be installed directly onto the wall thanks to its frameless design.



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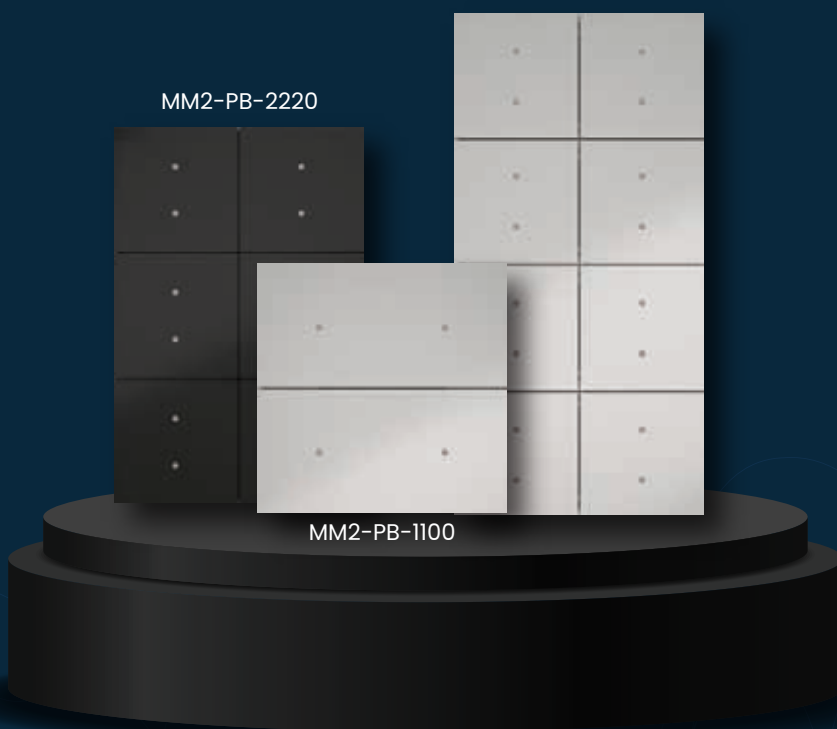


Designed for versatility and performance, this device delivers a wide range of smart control capabilities — including switching, dimming, curtain and shutter control, value transmission, scene management, thermostat control, and real-time monitoring of temperature, humidity, and air quality.

Selected models elevate the experience further with advanced features such as an LCD display, intuitive touch control, and integrated air quality and humidity sensors.

Elegant RGB LED indicator lights positioned on both sides of each button provide clear, customizable visual feedback, allowing users to instantly recognize active functions and system statuses at a glance.

MODELS AND TYPES



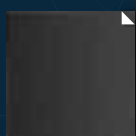
MM2-PB-D200

MM2-PB-D220

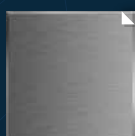
MM2-PB-D222



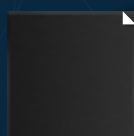
White - 1WH



Anthracite - 1AN

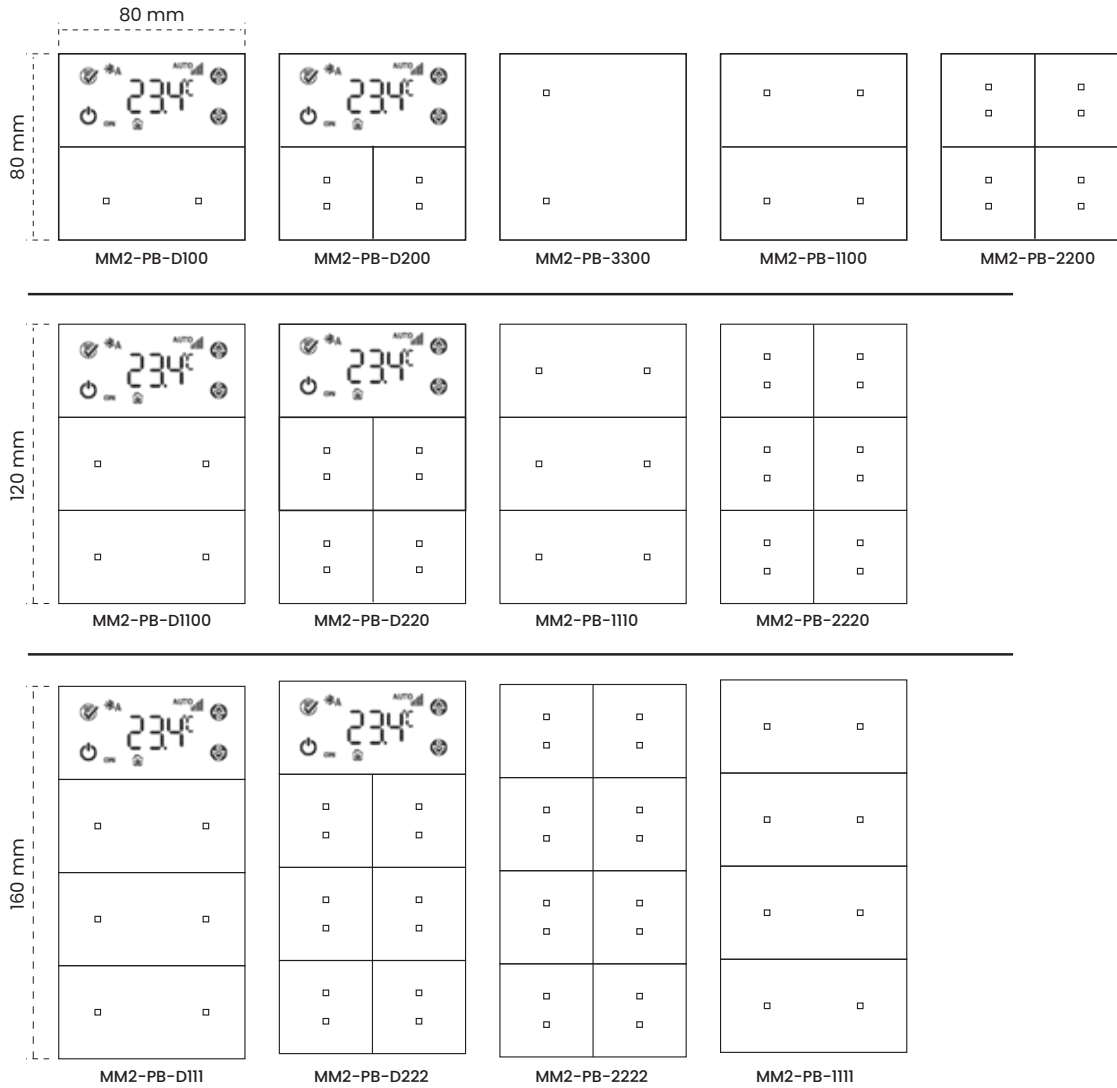


Silver - 1SL



Black - 1BL

PRODUCT MODELS



CODING

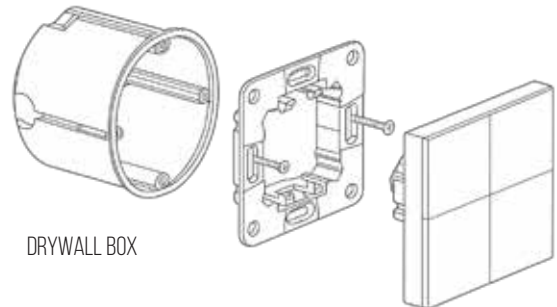
MM2-PB-	1	1	0	0	-	T11	-	1WH (WHITE)
	2	2	1	1	-	T12	-	1BL (BLACK)
D			2	2	-	T13	-	1SL (SILVER)
						T14	-	1AN (ANTHRACIT)

- 1. LEVEL
- 2. LEVEL
- 3. LEVEL
- 4. LEVEL

- T11 - Standart (No Sensor)
- T12 - Room Thermostat Controller (RTC)
- T13 - Air Quality Sensor (VoC)
- T14 - RTC and VoC

INSTALLATION

DIN 49073
Ø68MM

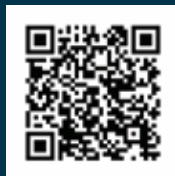


DRYWALL BOX

Detectors



KNX MOTION & PRESENCE MULTI SENSORS
MM1-50-XXX-21X



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MM1-50-MID-21X **STANDARD MULTI SENSOR**
 MM1-50-WID-21X **WIDE RANGE MULTI SENSOR**
 MM1-50-HB-21X **HIGH-BAY MULTI SENSOR**
 MM1-50-COR-21X **CORRIDOR MULTI SENSOR**
 MSS: STANDARD MSH: **HIGH BAY MSC: CORRIDOR MSW: WIDE**
 212: **WITH ENVIRONMENTAL SENSORS AND THERMOSTAT (RTC FUNCTION)**
 211: **WITHOUT ENVIRONMENTAL SENSORS AND THERMOSTAT**

The MM1-50-xxx-21x series is a family of indoor KNX presence and motion detectors designed for modern residences, commercial spaces, and a wide range of building applications. By controlling lighting and HVAC according to motion or presence, they help reduce energy consumption while improving everyday comfort.

DS_MM1-50-MID-21X
 Available in Standard, Wide Range, High-Bay, and Corridor versions, the series can be selected to match the room geometry and mounting height. Two feature levels are offered: MM1-50-211 (Standard) and MM1-50-212 (Premium), with the Premium version adding advanced functions such as RTC, logical applications, and additional environmental sensing options.



CODE	APPLICATION AREA	SENSORS	RECOMMENDED MOUNTING HEIGHT	DIRECTION COVERAGE
MM1-50-MID-211-WH	Standart /room	PIR, Ambient	2.5–4m	Seated: 4–6 m Ø • Walking: 10–12 m Ø
MM1-50-WID-211-WH	Wide Range	PIR, Ambient	2.5–4m	Seated: 15–20 m Ø • Walking: 24–30 m Ø
MM1-50-HB-211-WH	High-Bay	PIR, Ambient	9–12m	Seated: 14–20 m Ø • Walking: 23–30 m Ø
MM1-50-COR-211-WH	Corridor/hallway	PIR, Ambient	2.5–4m	22–35 m (4–6 m short edge)
MM1-50-MID-212-WH	Standart /room	PIR, Ambient, Temperature, Humidity	2.5 – 4 m	Seated: 4–6 m Ø • Walking: 10–12 m Ø
MM1-50-WID-212-WH	Wide Range	PIR, Ambient, Temperature, Humidity	2.5 – 4 m	Seated: 15–20 m Ø • Walking: 24–30 m Ø
MM1-50-HB-212-WH	High-Bay	PIR, Ambient, Temperature, Humidity	9 – 12 m	Seated: 14–20 m Ø • Walking: 23–30 m Ø
MM1-50-COR-212-WH	Corridor/hallway	PIR, Ambient, Temperature, Humidity	2.5 – 4 m	22–35 m (4–6 m short edge)
MM1-50-212-WH-BOX	Multi Sensor Surface Mounting Box for 21X serie			

IR AC GATEWAY (NEW) MM1-30-IR-111



KNX IR AC UNIVERSAL GATEWAY

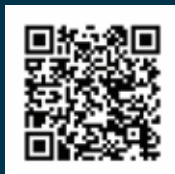
KNX to IR, IR to KNX bidirectional synchronization
(Feedback)
Already in the Library more than 50 brands
Control for any IR devices by learning mode on ETS
Math Logic Module
IR Macros
Scene and timer module
3+1 channels, (1 ch for remote controller)

MM1-30-IR-111 Universal Infrared - KNX Gateway delivers powerful integration, bidirectional synchronization, and centralized remote management for infrared-controlled consumer electronics and HVAC units.

MM1-30-IR-111 is the essential link for bringing standard consumer electronics and non-KNX-controlled systems—such as TVs, music systems, projectors, and conventional air-conditioning units—into modern KNX building automation networks. Acting as an advanced control bridge, the gateway converts KNX control telegrams into universally understood infrared (IR) signals, enabling comprehensive control and scenario management across all IR-dependent devices.

Unique feature: Bidirectional Synchronization

Unlike basic IR transmitters, MM1-30-IR-111 provides a key advantage through its advanced bidirectional synchronization. Using an external IR receiver, the gateway actively monitors and decodes signals sent from the device's original handheld remote control. Commands executed manually by the user (eg adjusting TV volume or changing an AC fan speed) are immediately translated into KNX status feedback (FB) telegrams and published to the bus. This keeps the entire KNX system fully synchronized and accurately reflects the device's current operating state, regardless of the control source.



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THE IR REPEATER ENGINE: SEAMLESS CONTROL OF ANY IR DEVICE

IR CODES – THE FOUNDATION GATEWAY

The “Codes” module functions as the gateway’s library, storing up to 64 distinct IR commands learned from any physical remote control. Codes can be read, written, or learned individually and stored directly in device memory. For streamlined configuration, the full library can be synchronized with ETS via “Read All” and “Write All.” This supports efficient backup and cloning workflows, enabling integrators to manage the raw hexadecimal IR data, define carrier frequency, and confirm the physical storage status.

IR Channels – Directional Logic and Feedback

The “Channels” module defines the operational bridge between KNX and IR. Each channel can be configured with a specific Working style:

- NX -> Infrared: Controls an appliance by transmitting a stored IR command when a KNX telegram is received.
- Infrared -> KNX: Uses a physical IR remote as an input device, sending a customizable KNX telegram (eg for lighting or blinds) when a specific IR code is detected.

To improve end-user independence, the IR code self replacement feature enables users to update a channel’s stored IR code through a simple scene object, removing the need for an ETS service call when replacing an appliance (such as upgrading a TV).

IR Macros – Multi-Step Automation

The “Macros” page enables sophisticated, sequential command chains. A Macro can execute up to 8 distinct IR commands triggered by a single KNX telegram—ideal for scenario-based control requiring accurate timing and sequencing.

- Each step (1–8) can select a code number, set a Transmission delay (in x100 ms increments), and define a Transmission count to repeat signals for improved reliability.
- Physical Output Selection: A macro can target one, two, or all three independent physical output ports simultaneously, enabling synchronized multi-device control (eg powering a projector, lowering a screen, and turning on a sound system).



DEDICATED AC MODULE: **CLIMATE CONTROL INTEGRATION**

MMI-30-IR-111 includes a specialized Air Conditioning module designed for robust control and synchronization of IR-controlled HVAC units, supporting precise environmental management.

General Settings and Protocol Learning

The "General" page allows selection of the AC brand and model, which automatically assigns the correct AC protocol. Integrators can also use Learn infrared protocol to detect the unit's communication method by pointing the original remote at the gateway receiver.

System Recovery: The Bus recovery action defines how the system behaves after a power outage, with options to restore the last saved state or trigger one of four predefined scenarios to quickly return the climate system to critical operating settings.

Feedback Integrity: Send feedback for own commands keeps visualizations consistent even when no external IR receiver is connected, ensuring control interfaces reflect the expected AC state.

Modes and Fan Speed Control

HVAC modes (heating, cooling, ventilation, etc) are controlled via flexible 1-byte or 1-bit objects. Status feedback can be delivered through a standard 1-byte object or the HVAC mode text feedback object for clear display in BMS and visualization panels.

Fan speed is managed through the Fan speed 1 byte object, configurable for Enumerated (numeric) values or Percentage values. Both fan speed and HVAC mode changeover objects support looping sequences, and the integrator can define whether Auto mode is included in the loop.

Setpoint and Vane Management

- **Temperature:** Objects support incremental setpoint changes defined by Setpoint +/- step. Operational stability is protected by setting Setpoint temperature lower limit and upper limit values.
- **Vertical and Horizontal Flap Control:** Independent control is provided for both directions. The 1-byte objects allow numeric positioning, and integrators can define whether the loop includes swing mode when cycling flap positions for precise air distribution control.

MATHEMATICAL LOGIC MODULE — **THE SHADOW PLC**

A major capability of MMI-30-IR-111 is its 8 independent mathematical logic units, enabling the gateway to operate as a "shadow PLC" within KNX—reducing the need for external logic controllers.

This module supports addition, subtraction, multiplication, division, threshold control, comparison, and logical AND/OR conditions. It enables fast implementation of building-specific scenarios by combining data from the KNX bus (from sensors, contacts, and other devices) with time-based conditions.

Example: If outdoor temperature (received via KNX from a sensor) exceeds 28°C AND a motion sensor detects occupancy, trigger the "AC Max Cool Macro."

Scene and Timer Modules

Scene Module – Customizable Automation

The Scene Module can send up to 8 actions sequentially or simultaneously to the KNX bus based on the received scene number. For each action, the delay time, object type, and value can be defined in detail. With scene learning, users can store scenes on-site, enabling dynamic lighting, shading, and AV scenarios tailored to end-user preferences.

Timer Module – Time-Based Operation and Conditioning

The Timer Module provides counter-based time management with selectable units from 100 ms to hours. It can trigger actions when a defined limit is reached or when the value falls below a threshold. With conditional enable/disable via a Gate object, it supports time-sensitive automation use cases, such as powering down a device after a specified duration.

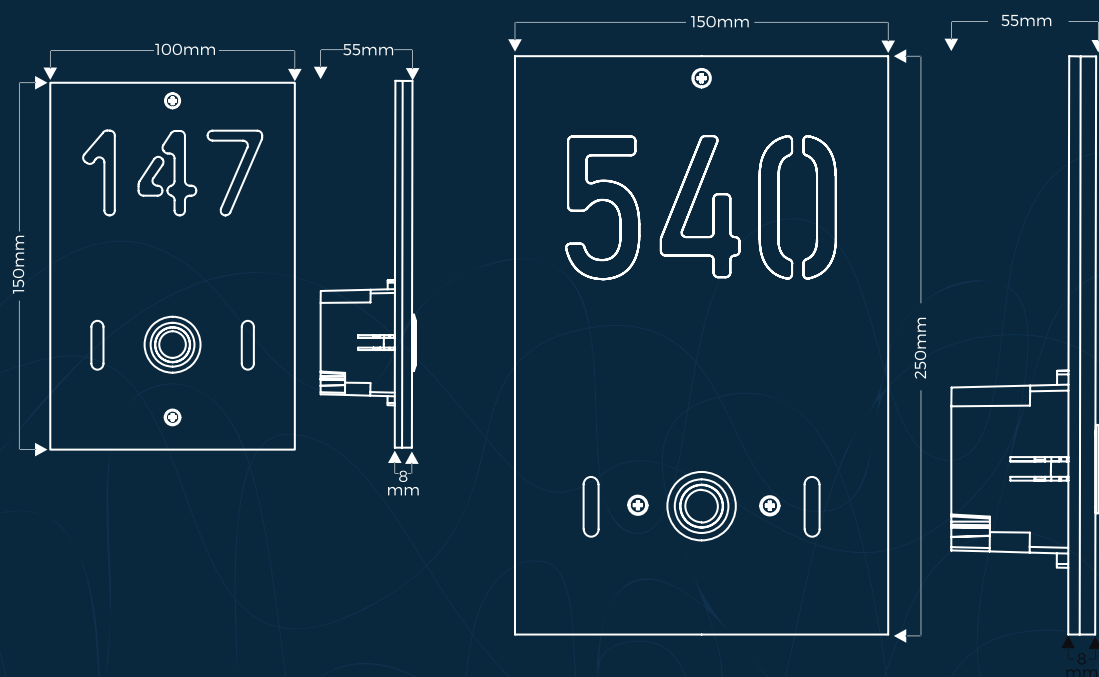
DND



HOTEL PRODUCTS

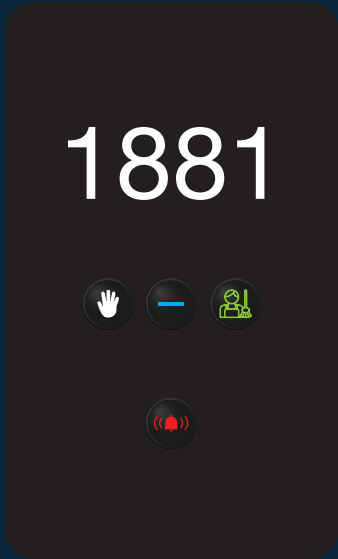
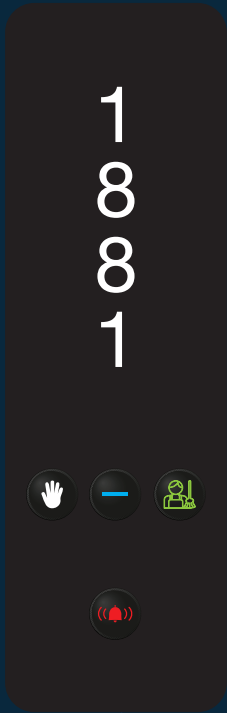
DND (Do Not Disturb) modules are offered with plexiglass and metal body options (brass and aluminum), providing seamless integration into both modern and classic architectural projects. With our KNX-based smart solutions as well as conventional models, we serve a wide range of applications, from boutique hotels to international hospitality chains.

DND (Do Not Disturb) modules are offered with plexiglass and metal body options (brass and aluminum), providing seamless integration into both modern and classic architectural projects. With our KNX-based smart solutions as well as conventional models, we serve a wide range of applications, from boutique hotels to international hospitality chains. Installed on the corridor side, the external units clearly display the guest's "Do Not Disturb" and "Please Clean" requests in real time, enhancing operational efficiency. Thanks to our fully customizable design approach, every detail – including material, color, logo, room number, and iconography – can be tailored specifically to each project. With these features, our DND solutions are a premium choice trusted by selected high-end projects.



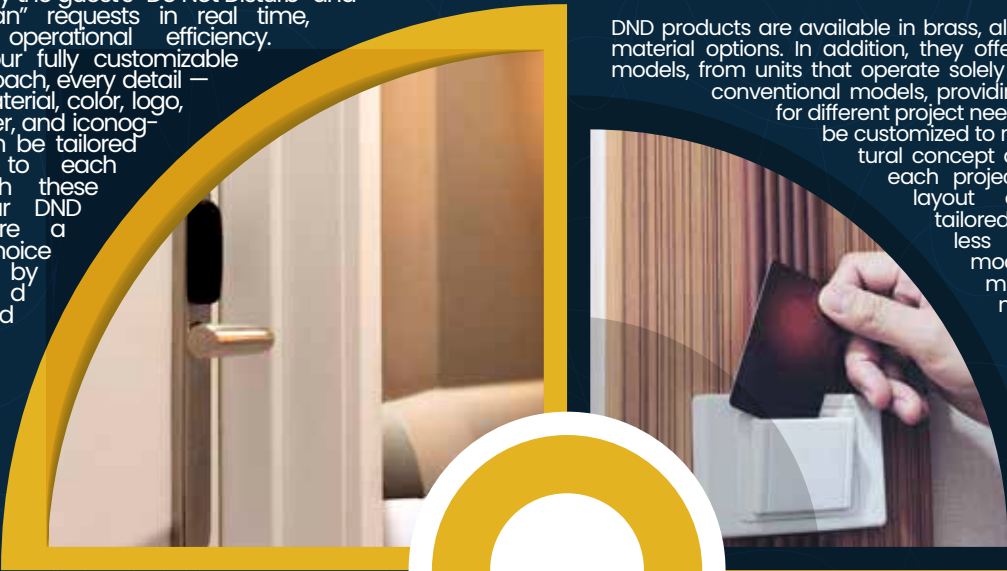
TECHNICAL DATA

Product Detail	DND&MUR Module	
Models	KNX DND&MUR Module	LXD-1510-KNX-XXX / LXD-1525-KNX-XXX
	Conventional DND&MUR Module	LXD-1510-XXX / LXD-1525-XXX
Type of Protection	IP20	EN60529
Safety Class	II	
	EN60664	
Power Connections	KNX Power Supply	KNX Bus Connection
	12 VDC Power Supply	Wire Gauge (AWG/mm ²): 22-18 AWG/0.2-0.75
Input Connections	3V3 Pulsed Dry Contact Input	
	Occupancy Input	Wire Gauge (AWG/mm ²): 22-18 AWG/0.2-0.75
	DND Input	Wire Gauge (AWG/mm ²): 22-18 AWG/0.2-0.75
	MUR Input	Wire Gauge (AWG/mm ²): 22-18 AWG/0.2-0.75
Output Connections	Dry Contact Output	
	Doorbell Output	Wire Gauge (AWG/mm ²): 22-18 AWG/0.2-0.75
Power Consumption	KNX Bus System	<10mA
	12 VDC Power Supply	<100mA
Operating Elements	KNX Programming Button	
	KNX Programming LED	
	Occupancy LED (Optional)	
Temperature Range	Operation	(-5°C...+45°C)
	Storage	(-20°C...+70°C)
Humidity	Maximum air humidity	
Flammability	Non-flammable product	
Dimensions	150x100x55 mm	LXD-1510-KNX-XXX / LXD-1510-XXX
	150x250x55mm	LXD-1525-KNX-XXX / LXD-1525-XXX
Weight	-	
	-	
Certification	KNX, CE	



Installed on the corridor side, the external units clearly display the guest's "Do Not Disturb" and "Please Clean" requests in real time, enhancing operational efficiency. Thanks to our fully customizable design approach, every detail — including material, color, logo, room number, and iconography — can be tailored specifically to each project. With these features, our DND solutions are a premium choice trusted by selected high-end projects.

DND products are available in brass, aluminum, and glass material options. In addition, they offer a wide range of models, from units that operate solely on the KNX bus to conventional models, providing flexible solutions for different project needs. Their design can be customized to match the architectural concept and interior style of each project. Size, finish, and layout options can be tailored to ensure seamless integration with modern, classic, or minimalist environments. This flexibility allows designers and architects to create unique, project-specific solutions while maintaining both aesthetics and functionality.



KNX NIGHTSKY

ACTUATOR 16A MULTI-FUNCTIONAL ON/OFF



MMI-11-640-11

OUTPUT CURRENT	320 mA
OUTPUT VOLTAGE	30 VDC (KNX)
AUXILIARY OUTPUT	NO
POWER CONSUMPTION	14 W NORMAL, 28/ W MAX
OVERLOAD CURRENT	0,5 A
SHORT-CIRCUIT CURRENT	0,8 A
DIMENSIONS (W X H X D)	90 x 92 x 64 mm (5 DU)
WEIGHT	NET: 245G GROSS: 277G
RELAY OUTPUT	SUPPLY VOLTAGE STATUS OPEN-CONTACT: DEVICE RUNNING CLOSED CONTACT: DEVICE IS NOT RUNNING



MMI-11-320-11

OUTPUT CURRENT	320 mA
OUTPUT VOLTAGE	30 VDC (KNX)
AUXILIARY OUTPUT	NO
POWER CONSUMPTION	14 W NORMAL, 28/ W MAX
OVERLOAD CURRENT	0,5 A
SHORT-CIRCUIT CURRENT	0,8 A
DIMENSIONS (W X H X D)	90 x 92 x 64 mm (5 DU)
WEIGHT	NET: 245G GROSS: 277G



MM-20-04-211
Combo Actuator 4 Channels



MM-20-08-211
Combo Actuator 8 Channels



MM-20-12-211
Combo Actuator 12 Channels



MM-20-24-211
Combo Actuator 24 Channels



MM-20-16-211
Combo Actuator 16 Channels

SUPPLY VOLTAGE	KNX 30 VDC	
KNX CURRENT CONSUMPTION	MAX. 10 mA	
KNX MODE	S-MODE	
CONNECTION	KNX CONNECTION	
PROTECTION CLASS	IP 20	
MOUNTING	DIN RAIL	
NUMBER OF OUTPUT	4,8,12,16,20 OR 24	
OUTPUT SWITCHING CURRENTS	16A 277 VAC	
TEMPERATURE RANGE	OPERATION STORAGE	-5...+45°C -25...+55 °C
DIMENSIONS AND WEIGHT	WxHxD)	NET-GROSS
4 CHANNELS	54x92x64 mm (3 MW)	143G-168G
8 CHANNELS	90x92x64 mm (5MW)	230G-261G
12 CHANNELS	108x92x64 mm (6MW)	297G-334G
16 CHANNELS	144x92x64 mm (8MW)	364G-401G
24 CHANNELS	198x92x64 mm (11MW)	531G-581G
HOUSING	ABS V0	
CONNECTION TERMINALS	4 mm ² MULTICORE, 6 mm ² SINGLE CORE	
CERTIFICATE	CE	

MM-20-XX-21X NIGHTSKY2 ACTUATOR - CHANNEL CAPACITY OVERVIEW

Actuator variants and supported application channels (DIN-rail)

VARIANT	DIMENSIONS	3-SPEED FAN COIL CONTROLLER	3-POINT VALVE CONTROLLER	SHUTTER CONTROL	SWITCH/VALVE CONTROL
MM-20-04-211	54 x 92 x 64 mm (3 DIN Unit)	1	2	2	4
MM-20-08-211	90 x 92 x 64 mm (5 DIN Unit)	2	4	4	8
MM-20-12-211	108 x 92 x 64 mm (6 DIN Unit)	3	6	6	12
MM-20-16-211	144 x 92 x 64 mm (8 DIN Unit)	4	8	8	16
MM-20-24-211	198 x 92 x 64 mm (11 DIN Unit)	6	12	12	24



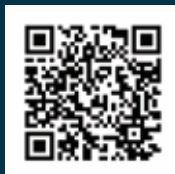
LOGIC MODULE



FEATURES

With 10 independent logic operations selectable from 18 different functions that can be defined within the module, many conditional operations needed in building automation can be easily configured. Each operation can be used repeatedly for all functions, and 10 instances of the same type of logic operation can be created.

Inactivity Logic, Filter/Delay, Preset, Logic Gates (AND, OR, XOR, XNOR, NAND, NOR), Gate, Min/Max Comparator, Threshold, Comparator, Data Parser, Multiplexer, Demultiplexer, Staircase, and Scenario Controller.



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KNX SNOW

ACTUATOR 12 DIGITAL INPUT 16A MULTI-FUNCTIONAL ON/OFF



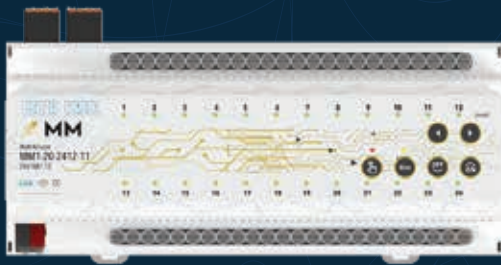
MMI-10-640-11 SNOW1)

OUTPUT CURRENT	640 mA
OUTPUT VOLTAGE	30 Vdc (knx)
AUXILIARY OUTPUT	30 VDC
POWER CONSUMPTION	22 W
OVERLOAD CURRENT	0,8 A
SHORT-CIRCUIT CURRENT	1,5 A
DIMENSIONS (W X H X D)	70 x 90 x 80 mm (4 DU)
WEIGHT	NET: 262G GROSS: 299G
RELAY OUTPUT	SUPPLY VOLTAGE STATUS OPEN-CONTACT: DEVICE RUNNING CLOSED CONTACT: DEVICE IS NOT RUNNING



MMI-20-2412-11 Combo Actuator 24 output / 12 Digital input

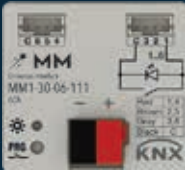
SUPPLY VOLTAGE	KNX 30 VDC
KNX CURRENT CONSUMPTION	MAX.10 mA
KNX MODE	S-MODE
CONNECTION	KNX CONNECTION
TYPE OF PROTECTION	IP 20
INSTALLATION	EN 60 715 (35mm DIN RALL)
OUTPUT SWITCHING CURRENTS	20A
INRUSH	UP TO 320A/2mm
TEMPERATURE RANGE	OPERATION -10...70 °C TRANSPORT -25...70 °C STORAGE -25...100 °C
DIMENSIONS	12 OUTPUTS WxHxD) 138x90x64mm (8 DIN MODULE WIDTH) 16 OUTPUTS 210x90x64mm (12 DIN MODULE WIDTH) 24 OUTPUTS 210x92x64mm (12 DIN MODULE WIDTH)
HOUSING	ABS V0
CONNECTION TERMINALS	4 mm ²
CERTIFICATE	CE



MMI-20-1612-11 Combo Actuator 16 output / 12 Digital input



UNIVERSAL INTERFACE



SUPPLY VOLTAGE	KNX 30 VDC
KNX CURRENT CONSUMPTION	8 mA
KNX MODE	S-MODE
CONNECTION	KNX CONNECTION
PROTECTION CLASS	IP 20
MOUNTING	INDOOR
NUMBER OF INPUT/OUTPUT	EACH CHANNEL (UP TO 3,6,9) CAN BE CONFIGURED AS INPUT OR OUTPUTS
INPUT FUNCTIONS	VALUE SENDER, DIMMER, SHUTTER, COUNTER
OUTPUT FUNCTION	LED (3,3 VDC 2 mA)
CABLE LENGTH	MAXIMUM 100 M
TEMPERATURE RANGE	OPERATION -5...+45 °C TRANSPORT -25...+70 °C STORAGE -25...+55 °C
DIEMENSIONS	38x 41 x 14 mm
HOUSING	U13 45g / U16 55g / U19 65g
CERTIFICATE	CE

GENERAL SPECIFICATIONS

MM1-30 is a universal indoor input/output device. It detects the status of contacts connected via the colored cables included in the package and transmits the corresponding data type information to the KNX line.

In output mode, the LEDs connected via colored cables can be switched on or off according to the data received from the KNX line. The device is powered directly from the KNX line; therefore, no additional power supply is required for contact scanning or LED driving.

If required, the device can perform contact scanning when energized. It features up to 9 channels, and each channel can be individually configured as an input or an output.

Input functions include: Value Sender, Dimmer, Shutter, and Counter.

Both permanent and classical type switches can be connected to each input. Normally open (NO) or normally closed (NC) operation can be selected with active/passive configuration.

With permanent contact connections, different data types can be transmitted for both contact states via different outputs. For spring-type switches, normal press and long-press functions can be configured separately.

Both states of permanent switches and the normal or long-press functions of classical switches can be transmitted to the KNX line using different data types.



WIRING ACCESSORIES



WIRING ACCESSORIES- PERFECT HARMONY WITH KNX DESIGN

Our wiring accessories are designed and manufactured in the same colors and finishes as our KNX front-end products, ensuring complete visual harmony throughout your home.

With premium materials, refined craftsmanship, and modern aesthetics, our switches and sockets deliver both elegance and long-lasting performance.

We offer a wide range of high-quality socket and switch solutions to meet different architectural and interior design needs.

SERIES A – MODULAR ALUMINUM FRAME COLLECTION

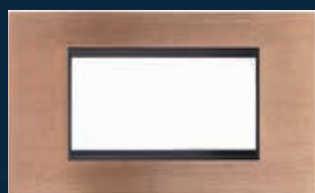
FLEXIBLE. FUNCTIONAL. TIMELESS.



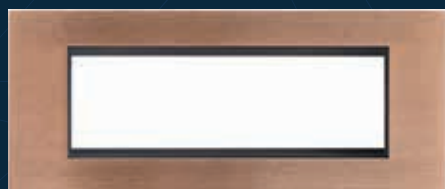
2M FRAME
86 x 86 mm



3M FRAME
86 x 110 mm



4M FRAME
86 x 132 mm



7M FRAME
86 x 98 mm



Series A is our modular wiring accessories range, designed for versatility and seamless integration.

Available in multiple module configurations:

2M, 3M, 4M, and 7M options

Modular design for customized installations

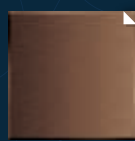
High-grade aluminum frames

Matching colors and finishes with KNX panels

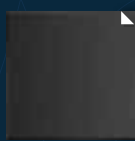
Durable structure for long-term use

This series is ideal for projects requiring flexibility, consistency, and modern design.

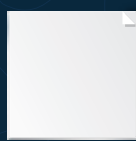
COLOR SERIES



Antique Copper (AC)



Meteor Black (MB)



Polar White (PW)



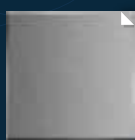
Green Leaf (GL)



Texture Black (TB)



Antique Bronze (AB)



Anthracite Gray (AG)



Royal Silver (RS)



Pure Gold (PG)



Red Cherry (RC)

SERIES B – FULL METAL SURFACE COLLECTION MINIMAL ELEGANT PREMIUM.

Series B represents our most refined and sophisticated wiring accessories line.

Featuring full-surface metal frames, this collection delivers a luxurious and minimalist appearance.

Key features:

- Full metal surface design
- Frames made entirely of brass or aluminum
- Ultra-slim profile
- Premium tactile feel
- High-end architectural aesthetics
- Series B is designed for luxury residences, premium hotels, and high-end commercial spaces.

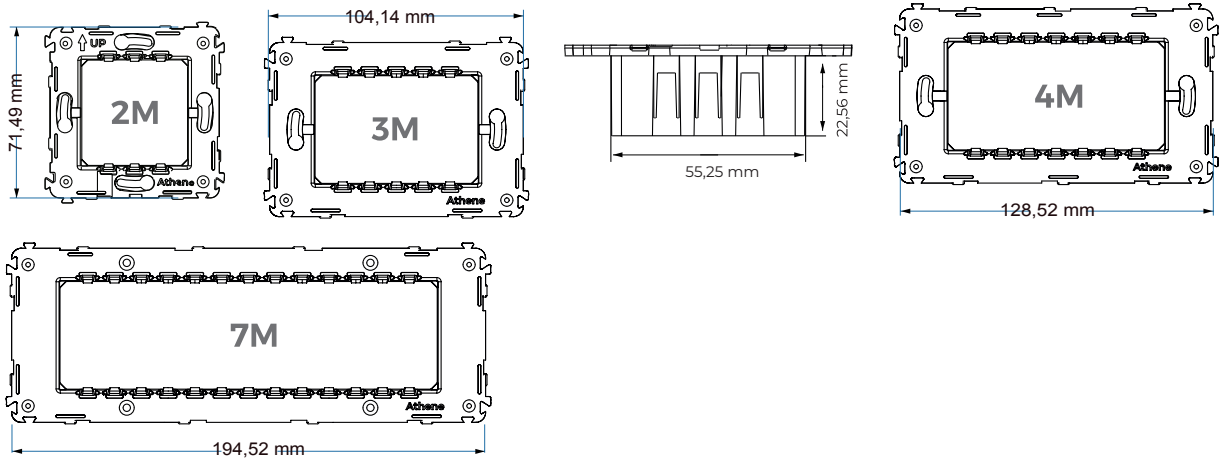


COLOR SERIES

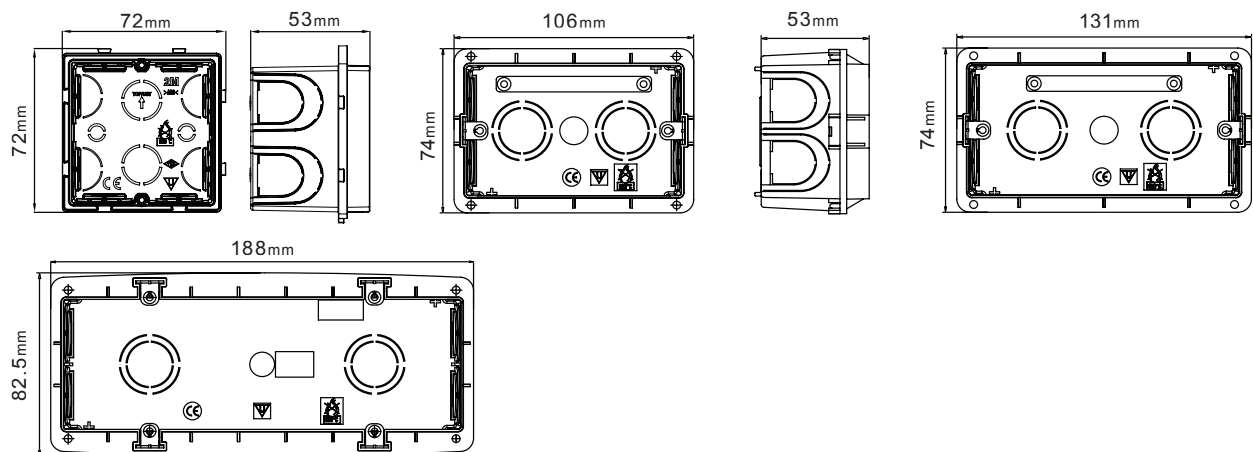




MOUNTING PLATE



WALL BOXES





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