

# AUTOMATION PRODUCT CATALOG



## ABOUT MM

We are a group that has been involved in international business for many years. We provide solutions to commercial and technical problems and work in a client-oriented manner. We have gained a lot of trust and goodwill from our clients over the years. We're a highly respected organization in the market. Clients working with us feel at ease and in safe hands. They know that they will receive the best services. Transparency is our core value.

### Trust and Client Oriented Business Management

We are accustomed to dealing with complex problems and projects that others may find difficult. We possess a high technical understanding and a refined problem solving ability. We meet the highest quality expectation. We care about the smallest details. Quality is paramount to us.

### Quality Understanding

These features are the key elements of the MM team that enable us to service our clients.

After undertaking international assignments with various companies, we have now established an enterprise with our own style and ideas. Although we have just started, we are a name that has been known for years for our projects and collaborations in the international market. We are a dynamic and proud business enterprise.

We offer innovative products and solutions in KNX, DALI and CASAMBI protocols.

Our company offers special services to our partners.

[www.mmelectro.com](http://www.mmelectro.com)  
[info@mmelectro.com](mailto:info@mmelectro.com)





## KNX Front-end

Dora Room Thermostat



Dora Push Button



Ephesus



Athene B4



EOZ



Multi Sensor



## KNX Back - End

Nightsky1 Series

640 mA KNX Pws



320 mA KNX Pws



4 fold Combi Actuator



8 fold Combi Actuator



12 fold Combi Actuator



16 fold Combi Actuator



24 fold Combi Actuator



2 fold KNX flush mount actuator 2



KNX Universal Interface 2 Ch



KNX Universal Interface 4 Ch



4 fold ceiling fan module



Snow1 Series



16 fold multi actuator with digital input



24 fold multi actuator with digital input



KNX Bluetooth Gateway



KNX Universal Interface 9 Ch



i Luxus Series

640 mA KNX Pws



0/10V IO module



12 fold mix actuator with digital input



20 fold mix actuator with digital input

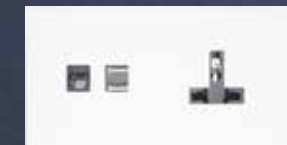


## Athena Conventional Serie

B4 Dry Contact



Wiring Accessories



## Conventional Detectors

PA 36020 PIR 360, surface (IP65)-16A relay - 20m



MU 36016 Micro wave 360, surface (IP20)-16A relay - 16m



MU 36036 PIR 360, surface (IP20)-16A relay - 6mrelay - 16m



PA 36020 PIR 360 flush mount (IP20) - 16A relay - 20m



MA36016 MA36016 Micro wave 360, flush mount (IP20) -16A relay - 16m



PA 36008 PA36008 PIR 360, flush mount (IP20) - 16A relay - 8m



PU12012 PIR 120, surface mount (wall) IP20 - 6A relay - 12m





## Dora Thermostat Metal Switch + Thermostat

It works in harmony with the air conditioning system.  
Learns and applies. In this way, it saves energy.



## The new KNX Metal Thermostat + Switch

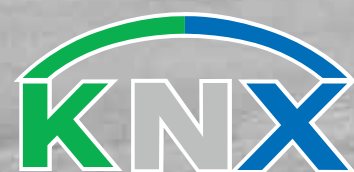
The lighting, temperature and blinds  
can be controlled centrally with the  
KNX room controller.

The device has touch screen for  
temperature control and 8 buttons for  
switching, sensing, dimming and  
blinds control.

Design combination examples  
Different combinations can be created  
using available colors



ANTIQUE COPPER	ROYAL SILVER
ANTIQUE BRONZE	GREEN LEAF
METEOR BLACK	PURE GOLD
ANTHRACITE GRAY	TEXTURE BLACK
POLAR WHITE	RED CHERRY

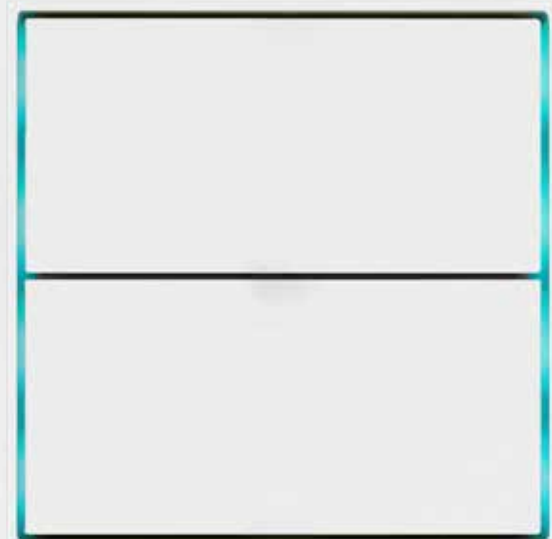




# DORA SERIES

PUSH BUTTON

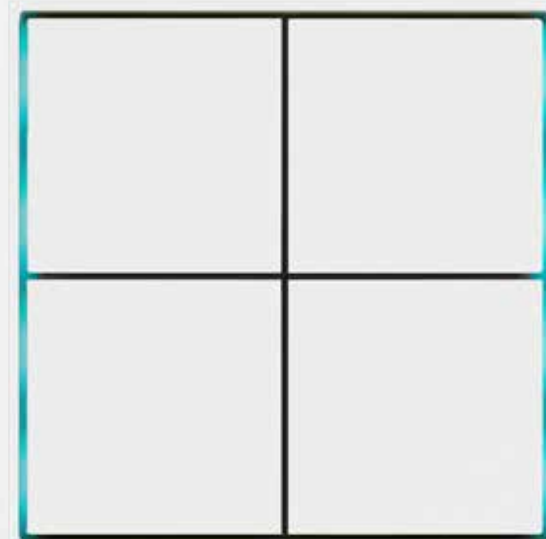
POLAR WHITE



Double Model



Quadro Line

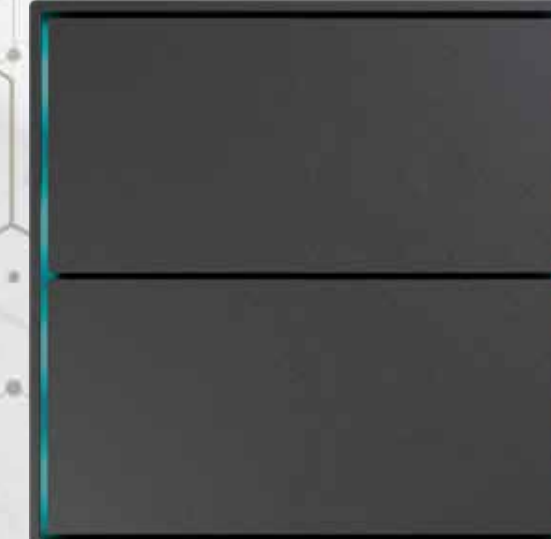


Quadro

# DORA SERIES

PUSH BUTTON

TEXTURE BLACK



Double Model



Quadro Line



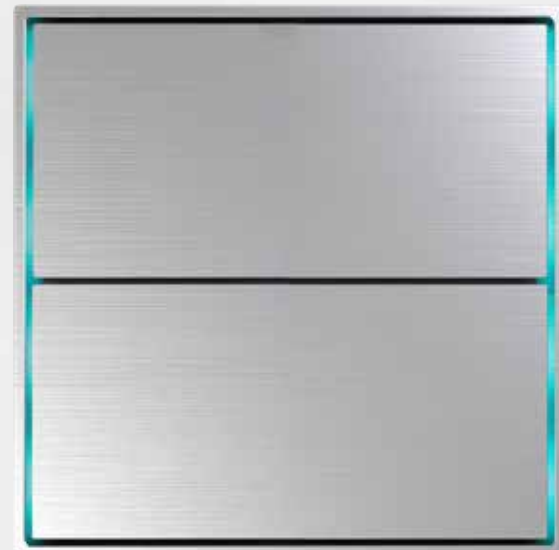
Quadro



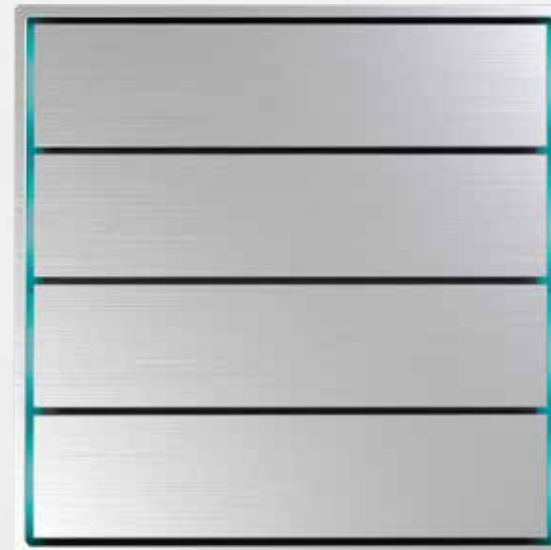
# DORA SERIES

PUSH BUTTON

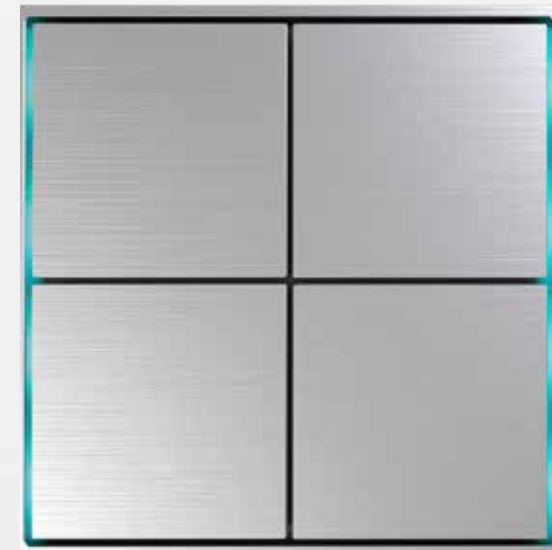
ROYAL SILVER



Double Model



Quadro Line



Quadro

# DORA SERIES

PUSH BUTTON

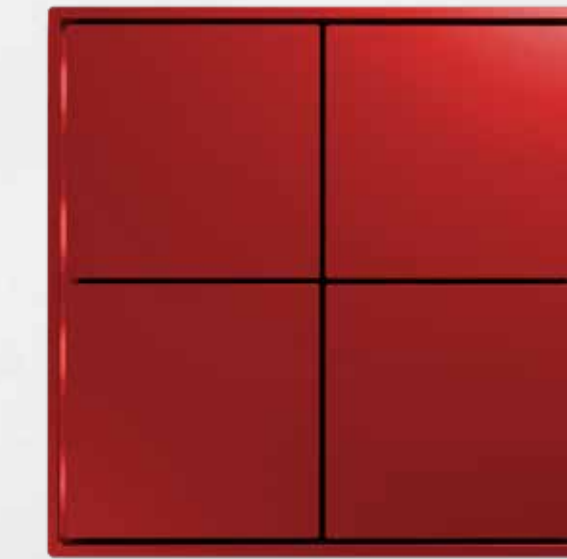
RED CHERRY



Double Model



Quadro Line



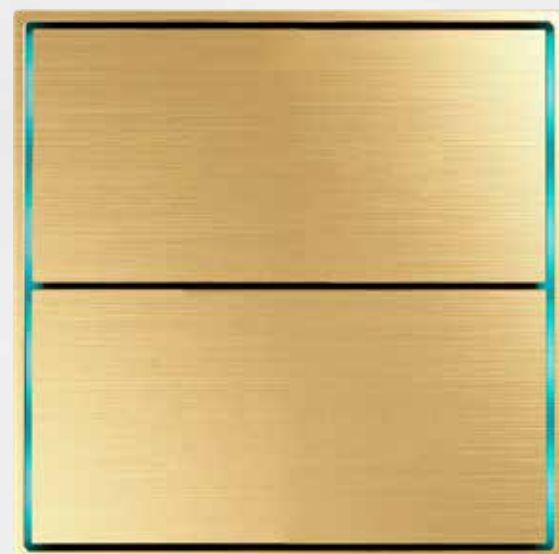
Quadro



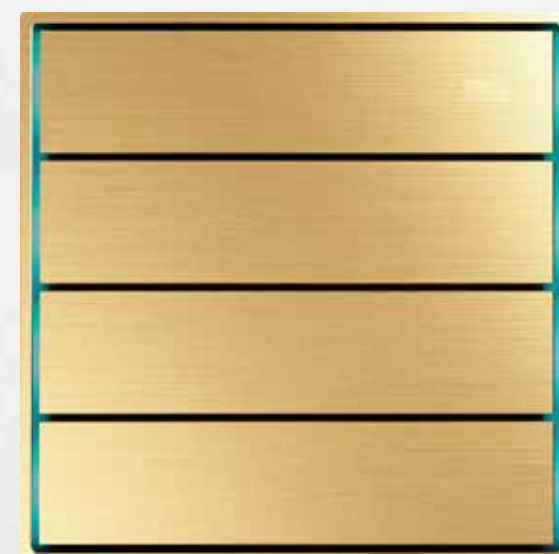
# DORA SERIES

PUSH BUTTON

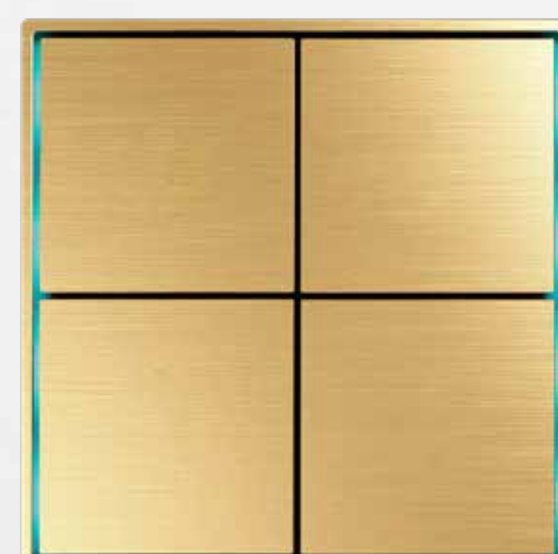
PURE GOLD



Double Model



Quadro Line

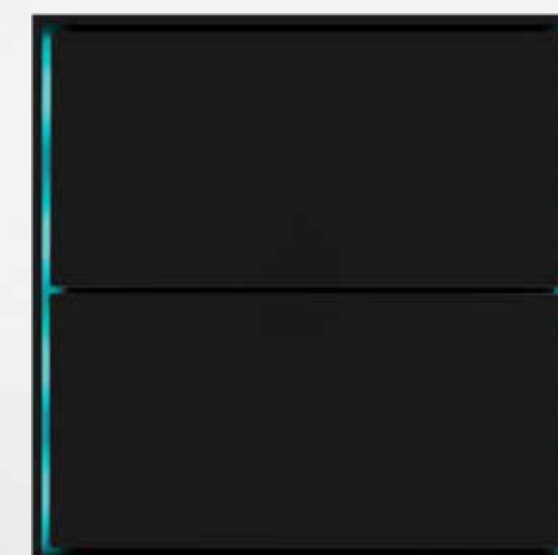


Quadro

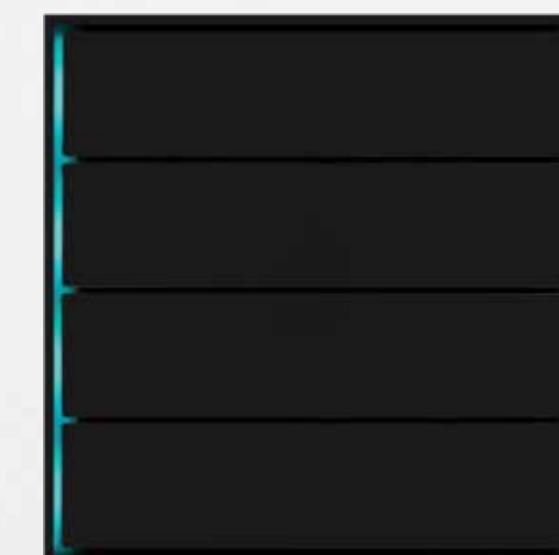
# DORA SERIES

PUSH BUTTON

METEOR BLACK



Double Model



Quadro Line



Quadro

# DORA SERIES

PUSH BUTTON

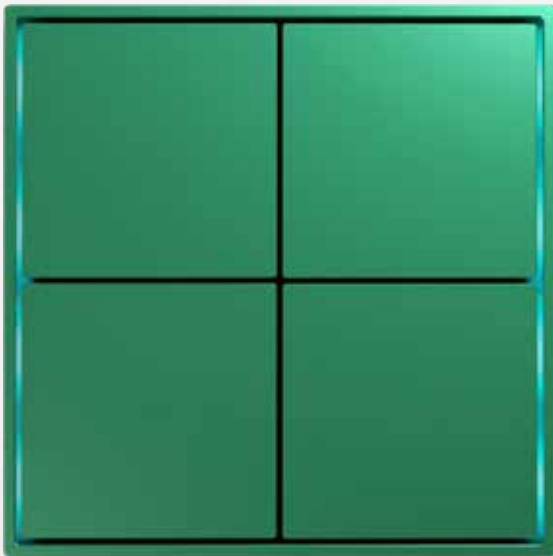
GREEN LEAF



Double Model



Quadro Line



Quadro



# DORA SERIES

PUSH BUTTON

ANTHRACITE GREY



Double Model



Quadro Line



Quadro

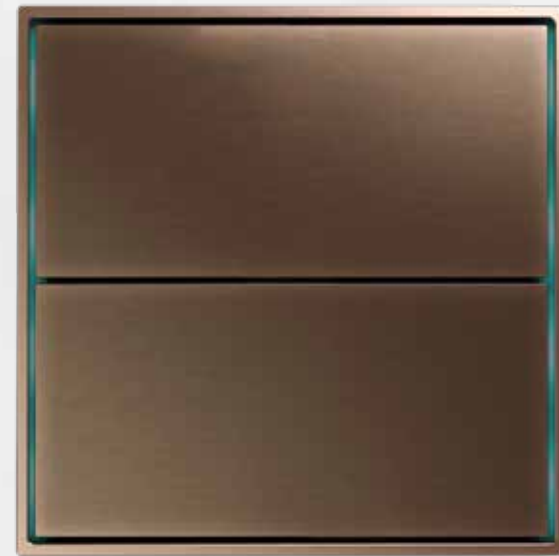




# DORA SERIES

PUSH BUTTON

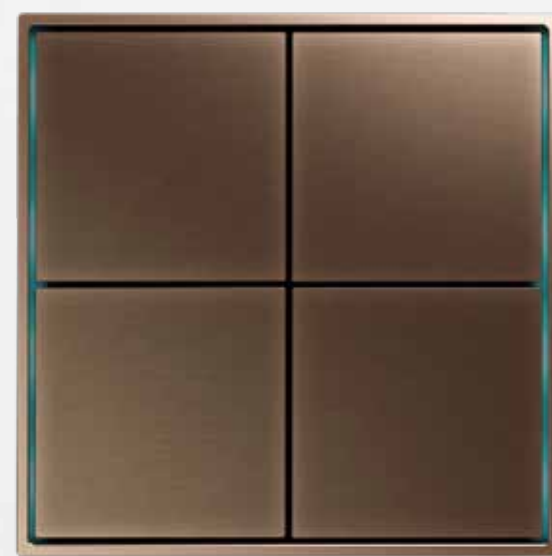
ANTIQUE BRONZE



Double Model



Quadro Line

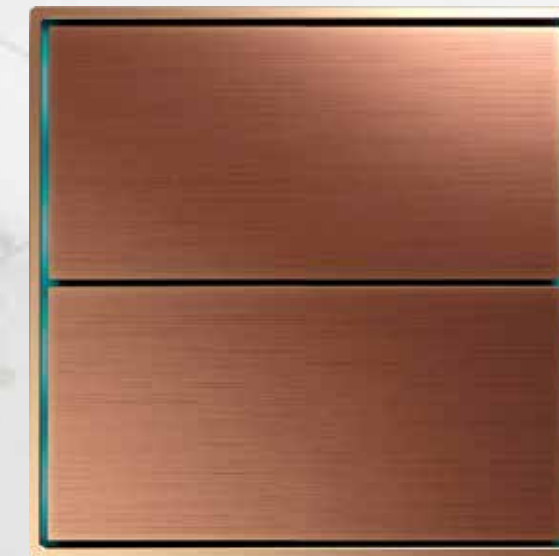


Quadro

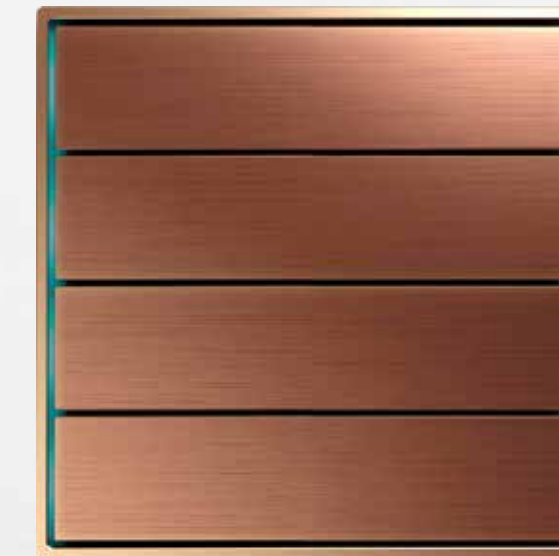
# DORA SERIES

PUSH BUTTON

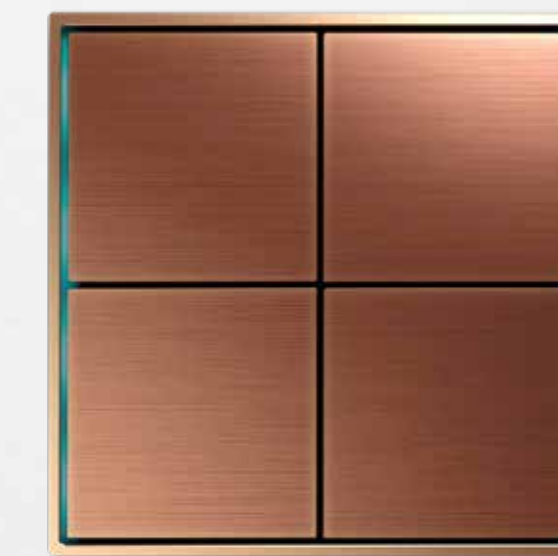
ANTIQUE COPPER



Double Model



Quadro Line



Quadro



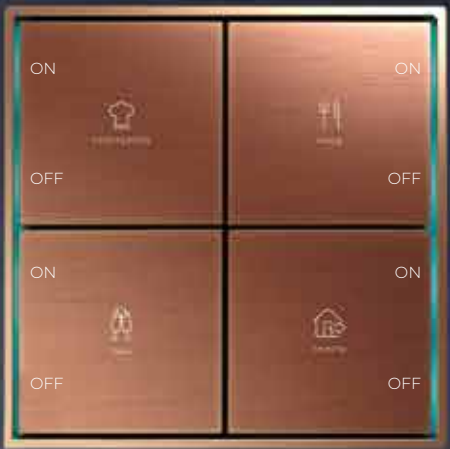


# Dora Metal Buttons

High end finished button solutions, different color combinations are full of visual impact in the living space. It will not overwhelm the guests, neither be oppressed by the space and can be versatile in any space style.



ANTIQUE BRONZE



ANTIQUE COPPER



GREEN LEAF



METEOR BLACK



PURE GOLD



RED CHERRY



TEXTURE BLACK



POLAR WHITE



ROYAL SILVER



ANTHRACITE GRAY

## Dora Double

Color combination examples

Different combinations can be created using available colors



1	3
2	4
5	7
6	8

1	3
2	4
5	7
6	8

1	3
2	4
5	7
6	8

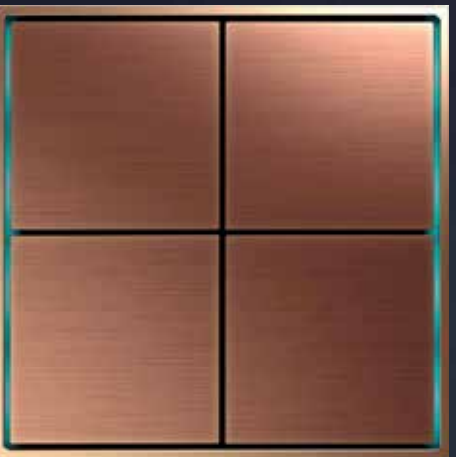
Dora Metal Switches  
Configurable button from 2 up to 8 (4 gang). Function with the temperature set and thermostat logic as well as the rocker (toggle). Available in 2/4/6/8 button configurations Everything at home is waiting for your instruction.

User can use the ETS to execute programming settings which is intuitive and reliable and extend the value of intelligence and convenience to the maximum, and realize a install and use configuration method.

## Dora Quadro

Color combination examples

Different combinations can be created using available colors and button combinations



## Dora Quadro Line

Color combination examples

Different combinations can be created using available colors and button combinations



### Your Space , Your Style





# EOZ

## IOT TECHNOLOGY

### New Generation Touch Panel

EOZ Touch Panel, which brings many innovations to the world of Touch Panel, is the pioneer of new generation products. While allowing you to do many controls together with its user-friendly interface and the customizable icon structure, you can easily access the desired controls. Its drag-drop icon structure provides the ability to display the desired objects on the screens you want, which offers a unique touch panel usage opportunity.



# EOZ

## TOUCH PANEL



### More Features

- \* KNX New Chipset Technology
- \* Embedded DALI 1x64 channel
- \* External 6 Channel Infrared Module (32 -40 KHz)
- \* External 3 and 6 Output modules with 5A Output
- \* Standart 6 Inputs ( 5V )
- \* TCP/IP, Wifi
- \* PoE supported
- \* Dynamic UI application
- \* Cloud Integration
- \* IOS & Android mobile application control



7 " EOZ



10.1 " EOZ

### Features



**DALI Control**  
64 Dali point control over EOZ Touch Panel



**Air-Condition**  
All kinds of air condition devices can be controlled over EOZ.



**Cameras**  
Watch all cameras over the IP System from EOZ & Mobile App.



**Concierge**  
The services created by administrative offices are now in your hand.



**IR Control**  
All kinds of IR devices are in your control. Enjoy...



**Door Phone**  
Communicate with Intercom & SIP Based devices over IP System.



**Security**  
Stay in secure with every sensor devices which is connected to EOZ.



**Scenarios**  
Create your dynamic scenarios easily.





# EPHESUS

## AESTHETIC LUXURY

### Touch Key KNX Room Controller

Ephesus KNX Room controllers have a stylish and simple design. The dyeing process is done with its unique craftsmanship. Our devices, which are produced in two models with two and four buttons, can be easily mounted to the universal round or square plaster cases. At first sight, it is perceived as a KNX based thermostat controller. However, it is not only a thermostat, but also a KNX based room controller. The EPHESUS KNX Room Controller features a simple and friendly interface design with temperature, humidity and ambient light sensors. This ensures a high level of comfort and energy efficiency in your environment. With a single touch you can comfortably control air conditioning, lighting, curtains/blinds, activate/deactivate sound systems or scenario management.

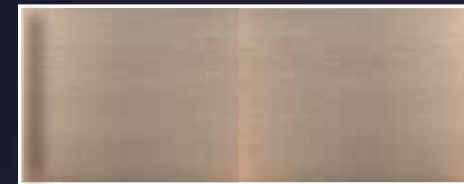


# EPHESUS

### ANTIQUE COLOR



AB Antique Bronze



AC Antique Copper

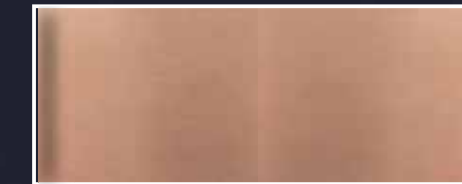


AC Antique Mocha

### BRUSHED COLOR



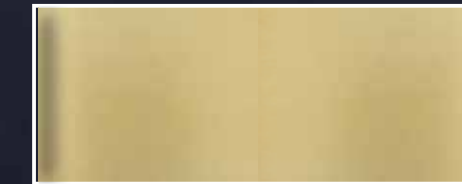
BR Brushed Bronze



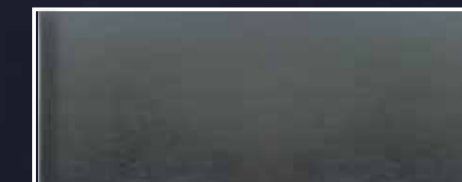
BC Brushed Copper



BS Brushed Steel



BG Brushed Gold



BB Brushed Black

### SPECIAL COLOR

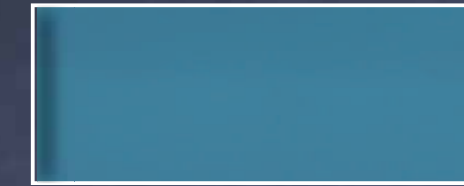


BW Brown

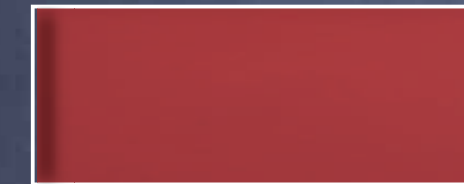


PB Parliament Blue

### PASTEL COLOR



BL Blue



RD Red



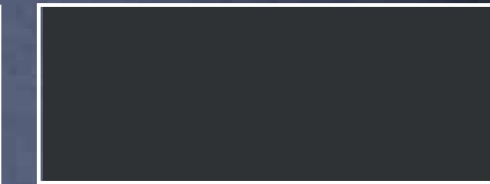
OR Orange



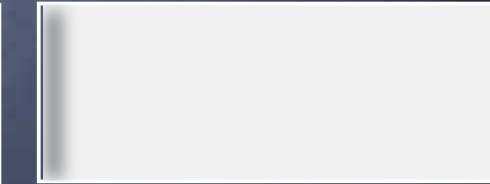
GR Green



DR Dore



AN Anthracite



WH White





# EPHESUS

PUSH BUTTON

Brushed Bronze



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Brushed Bronze



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

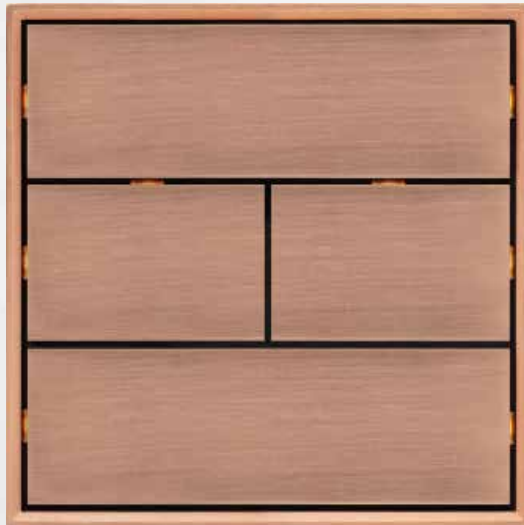
# EPHESUS

ROOM CONTROLLER

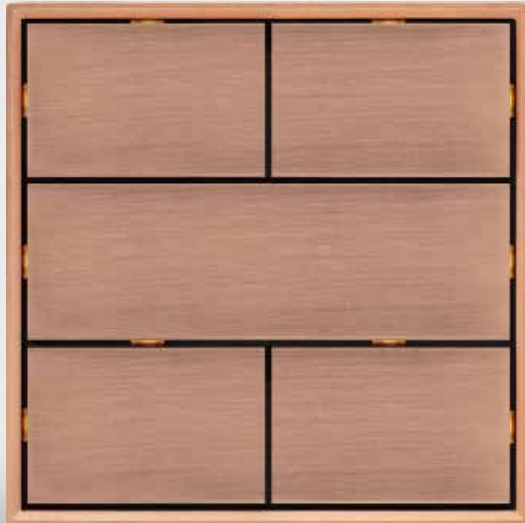
Brushed Copper



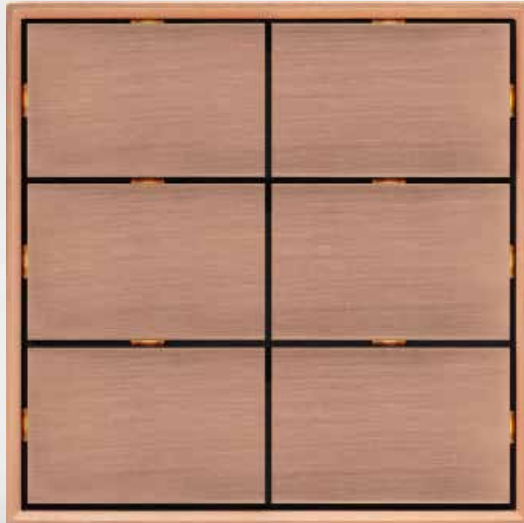
3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

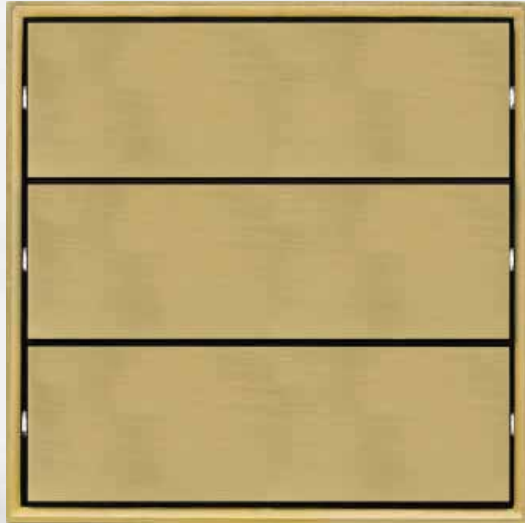




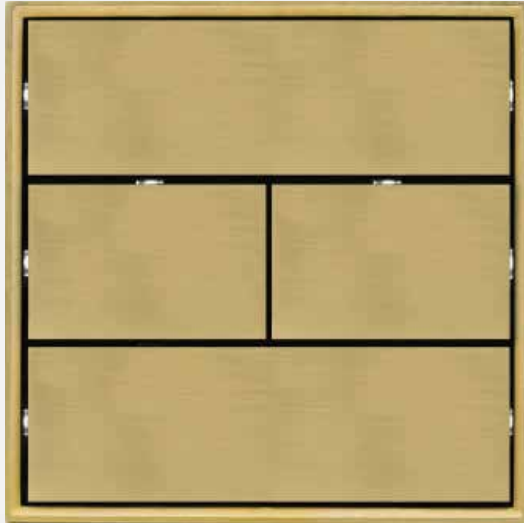
# EPHESUS

PUSH BUTTON

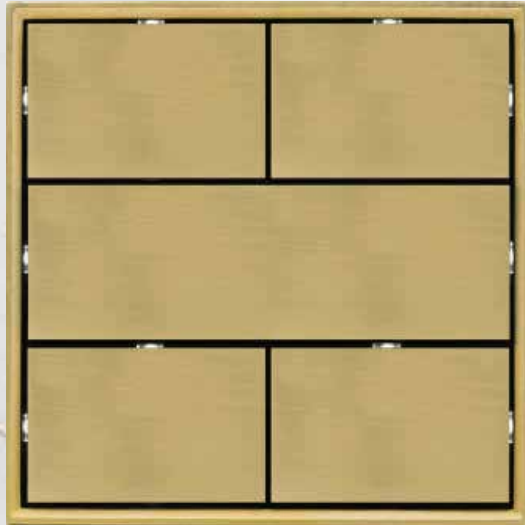
Brushed Gold



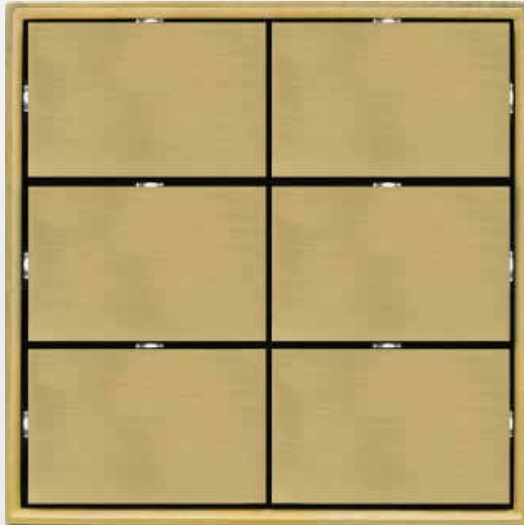
MM-203-ZBC-WL  
3 GANG 6 BUTTON



MM-204-ZBC-WL  
4 GANG 8 BUTTON



MM-205-ZBC-WL  
5 GANG 10 BUTTON



MM-206-ZBC-WL  
6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Brushed Gold



MM-202-ZBC-AL  
2 GANG ROOM CONTROLLER



MM-204 ZBC-BL  
4 GANG ROOM CONTROLLER

# EPHESUS

PUSH BUTTON

Brushed Steel



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Brushed Steel



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER



# EPHESUS

PUSH BUTTON

Antique Copper



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Antique Copper



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

# EPHESUS

PUSH BUTTON

Parliament Blue



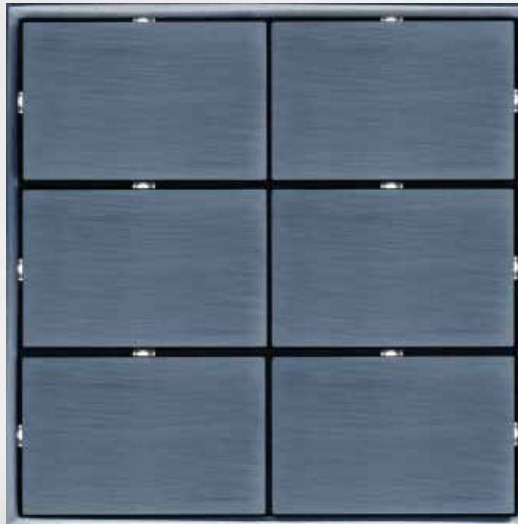
3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Parliament Blue



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER



# EPHESUS

PUSH BUTTON

Brown



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Brown



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

# EPHESUS

PUSH BUTTON

Brushed Black



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Brushed Black



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER





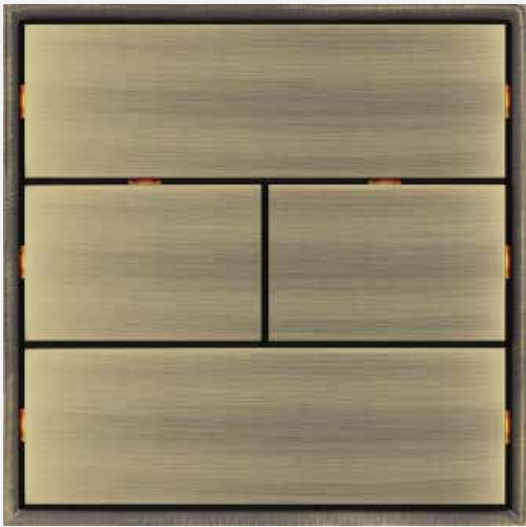
# EPHESUS

PUSH BUTTON

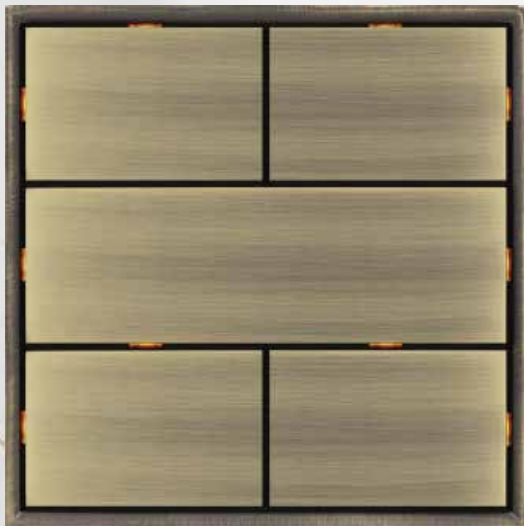
Antique Bronze



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Antique Bronze



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

# EPHESUS

PUSH BUTTON

Red



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Red



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

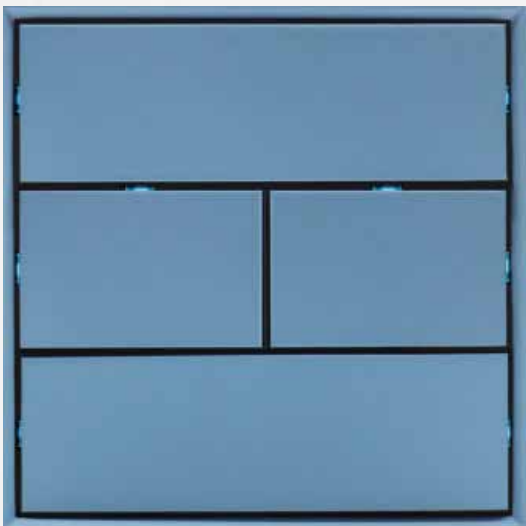
# EPHESUS

PUSH BUTTON

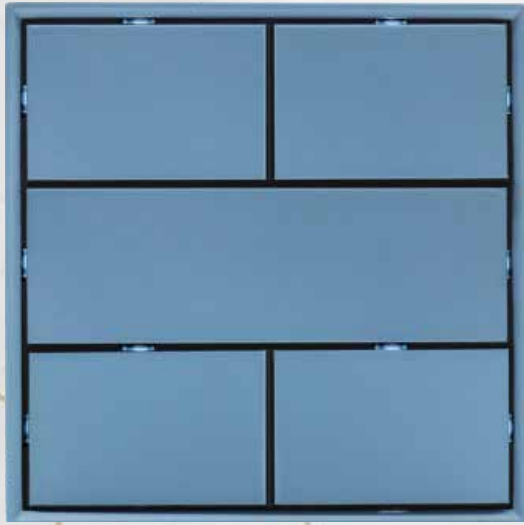
Blue



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Blue



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

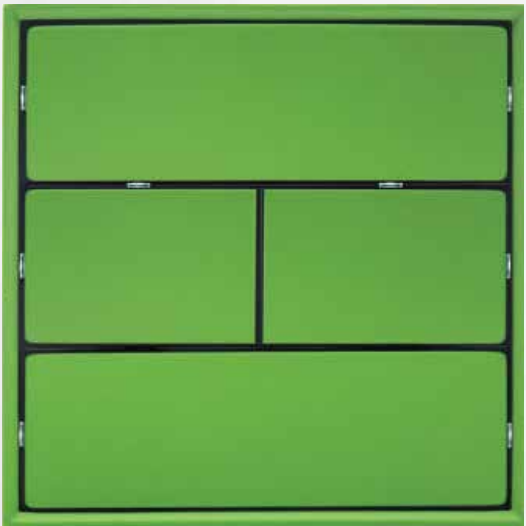
# EPHESUS

PUSH BUTTON

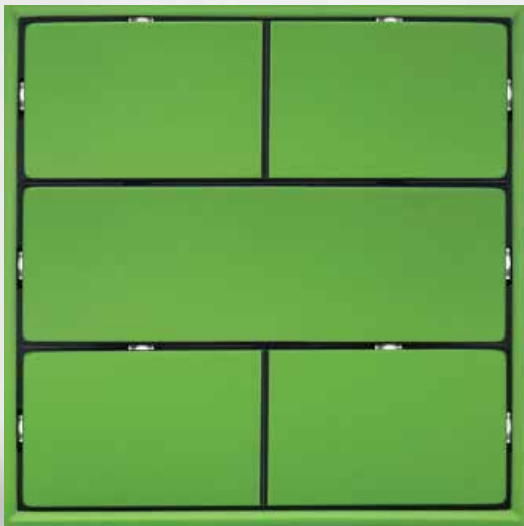
Green



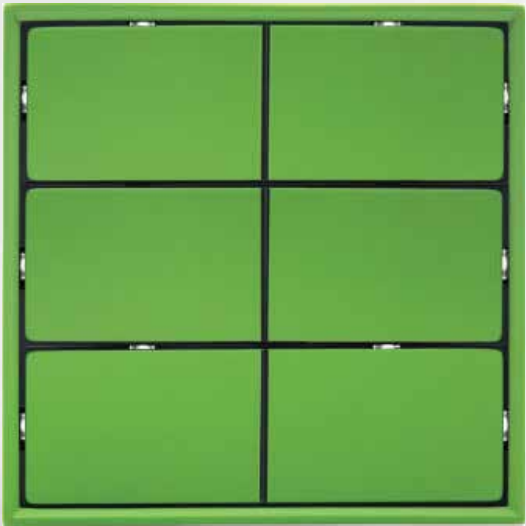
3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Green



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER



# EPHESUS

PUSH BUTTON

Orange



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Orange



2 GANG ROOM CONTROLLER

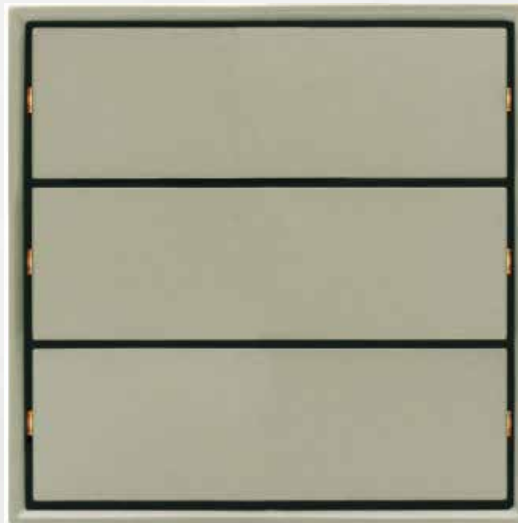


4 GANG ROOM CONTROLLER

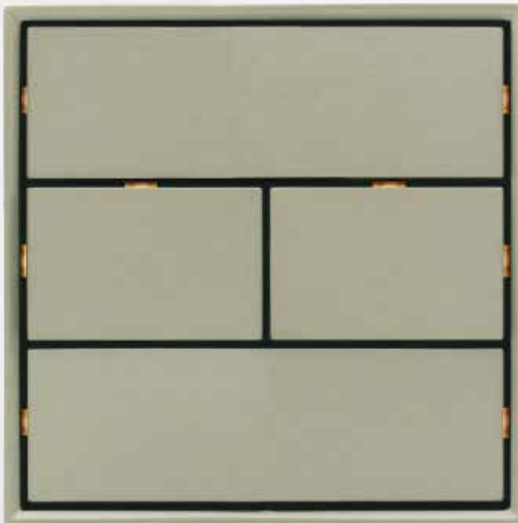
# EPHESUS

PUSH BUTTON

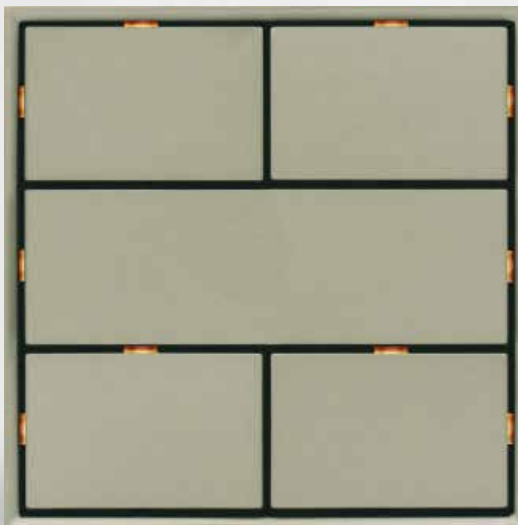
Dore



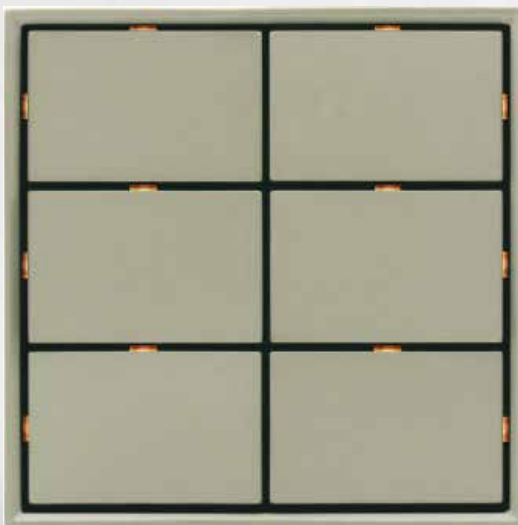
3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Dore



2 GANG ROOM CONTROLLER



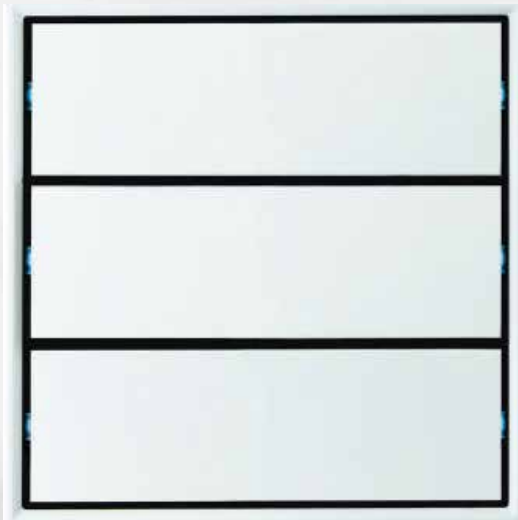
4 GANG ROOM CONTROLLER



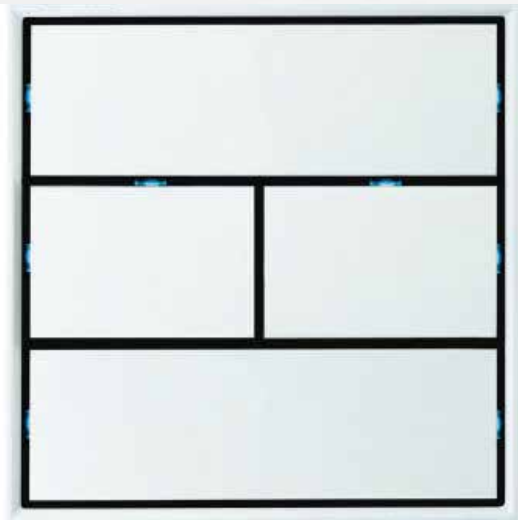
# EPHESUS

PUSH BUTTON

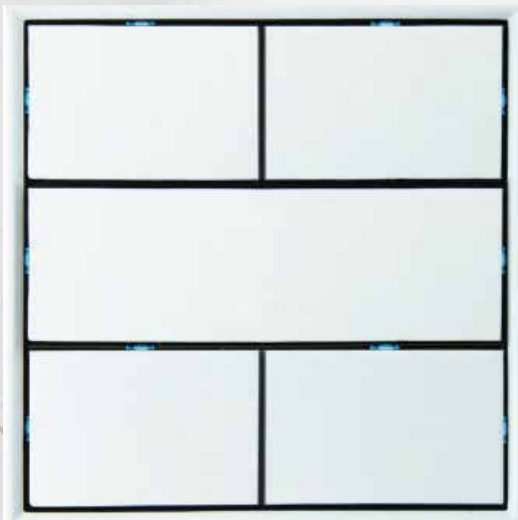
White



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

White



2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

# EPHESUS

PUSH BUTTON

Anthracite



3 GANG 6 BUTTON



4 GANG 8 BUTTON



5 GANG 10 BUTTON



6 GANG 12 BUTTON



# EPHESUS

ROOM CONTROLLER

Anthracite



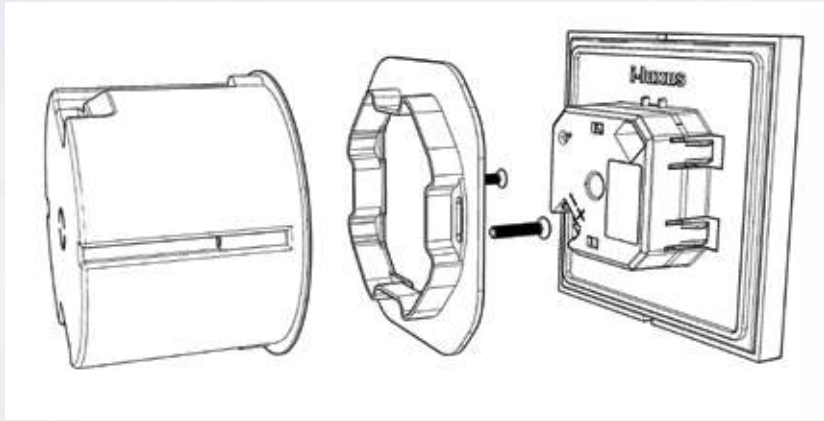
2 GANG ROOM CONTROLLER



4 GANG ROOM CONTROLLER

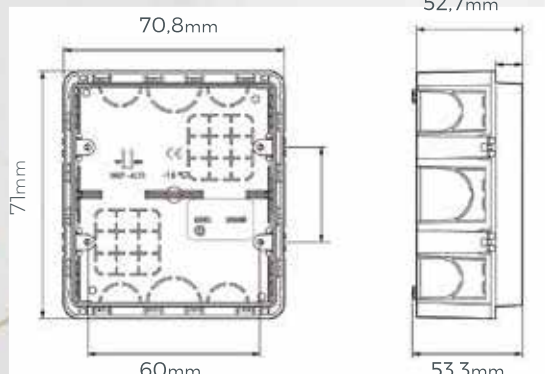


# EPHESUS MONTAGE

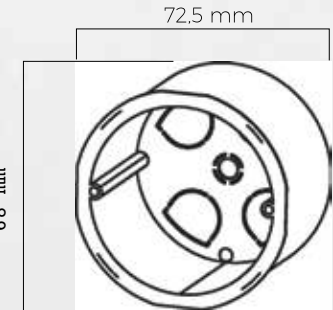


Ephesus has a special montage plate for wall mount box. This plate should be used for wall mounting.

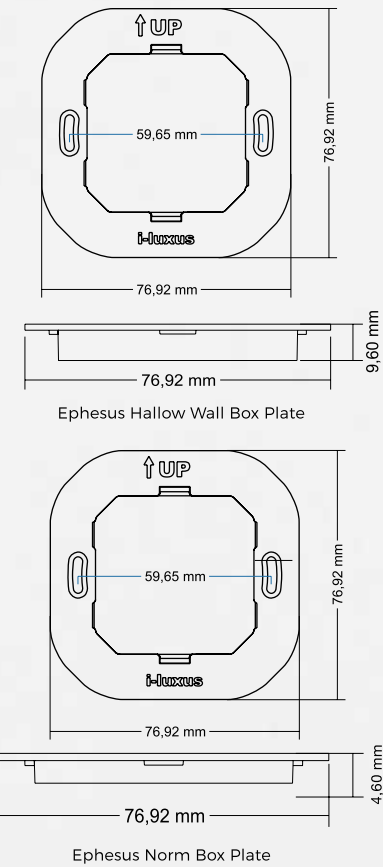
## DIMENSIONS



EU 2M Standart Box



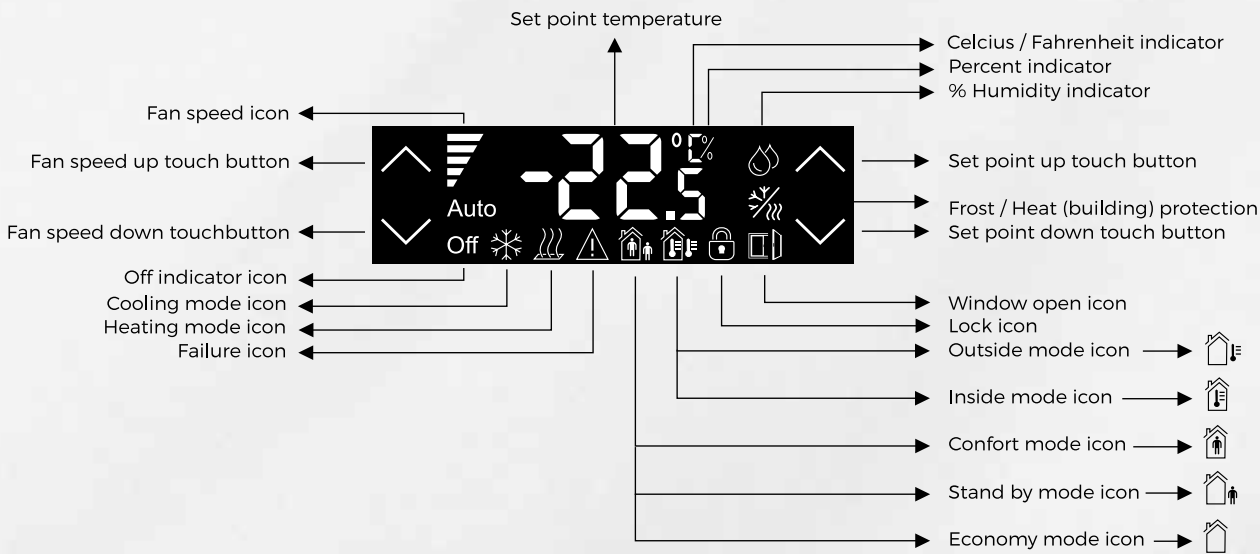
EU 2M Hallow Wall Box



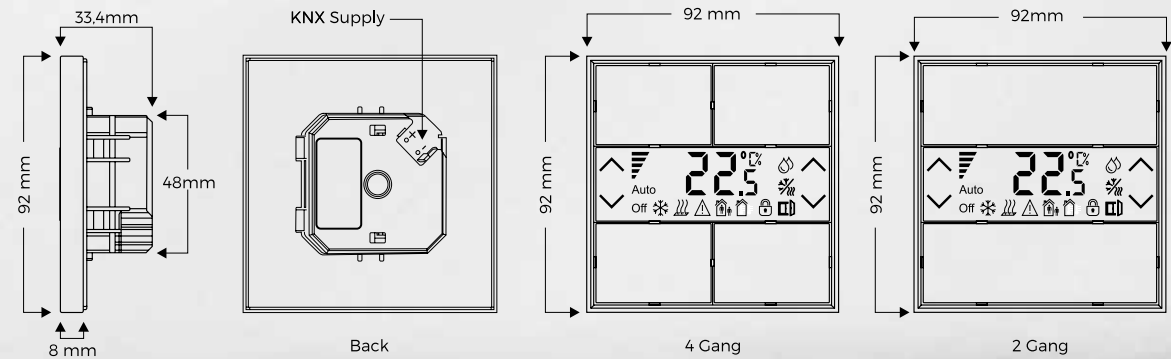
Ephesus Norm Box Plate

# EPHESUS ROOM CONTROLLER

## LCD DESCRIPTION

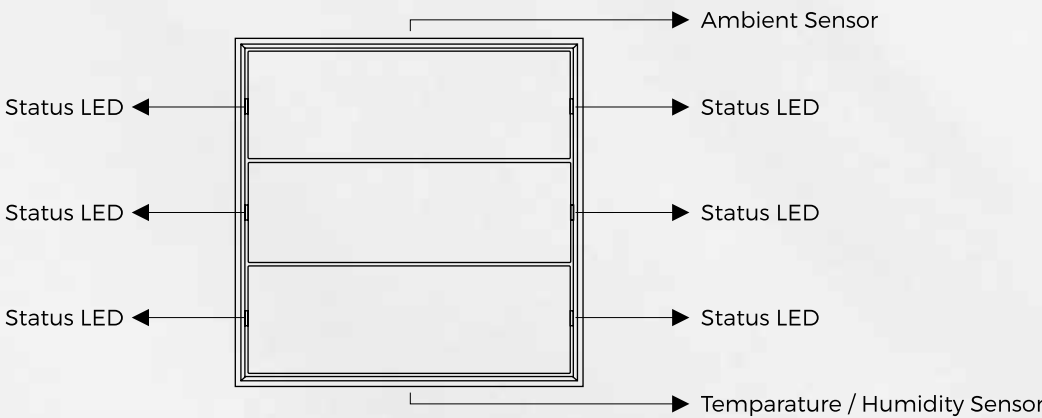


## DIMENSIONS

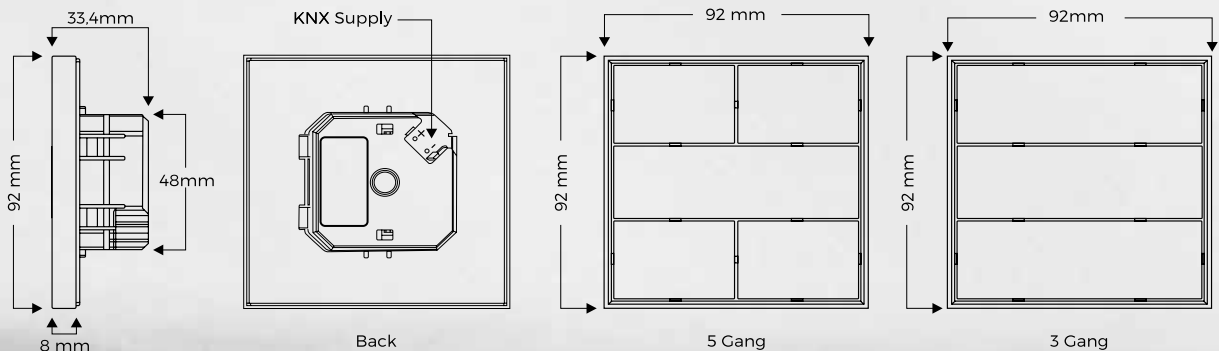


# EPHESUS PUSH BUTTON

## DESCRIPTION



## DIMENSIONS



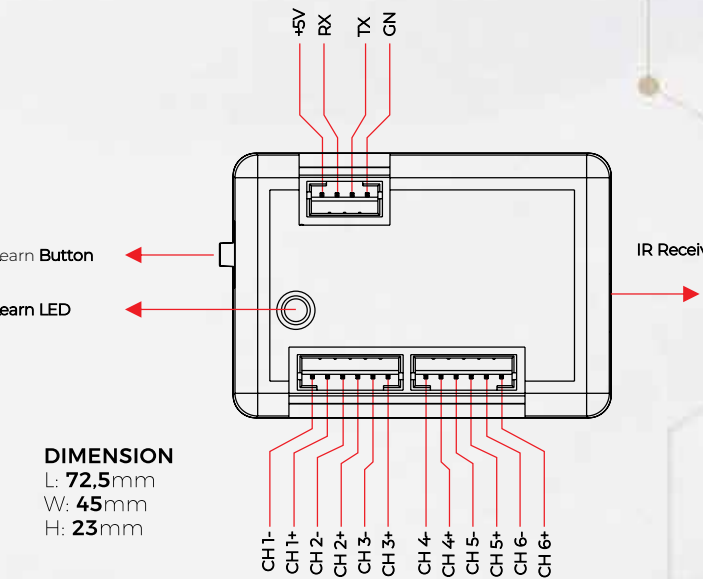
# EOZ EXTENSION MODULES

## IR GATEWAY

### PRODUCT CHARACTERISTICS

- ▶ 6 IR Outputs
- ▶ Learn IR sensor
- ▶ Learn button
- ▶ Status LED
- ▶ Production in Germany, certified to ISO 9001

## CONNECTION DIAGRAM



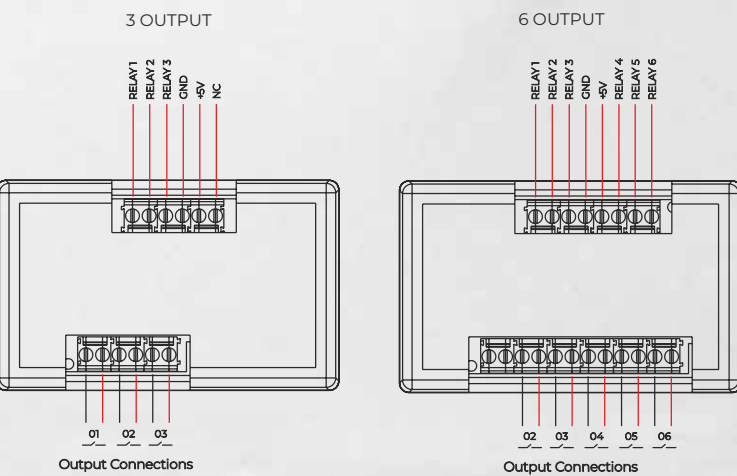
**DIMENSION**  
L: 72,5mm  
W: 45mm  
H: 23mm

## 3&6 RELAY

### PRODUCT CHARACTERISTICS

- ▶ 3 or 6 ON/OFF outputs
- ▶ Wide range of voltage switching capacity (up to AC 277V)
- ▶ Up to 5A load current
- ▶ 0.205-1.31 mm<sup>2</sup> solid wire or stranded wire cable connections
- ▶ Production in Germany, certified to ISO 9001

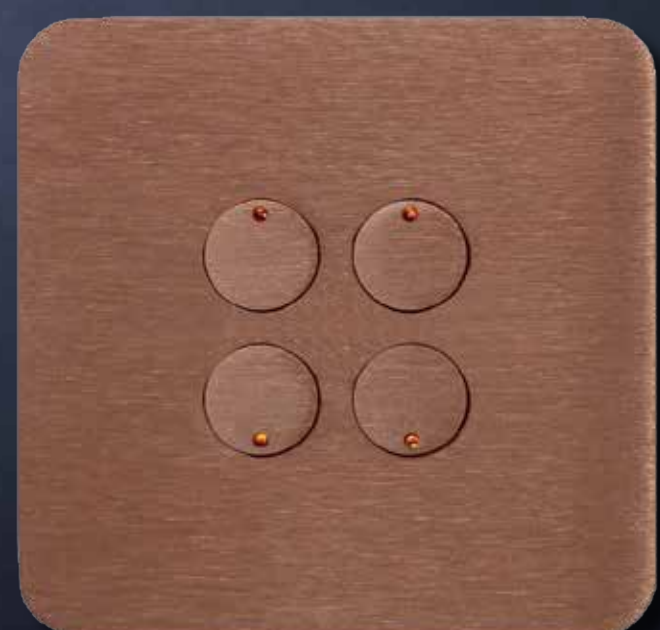
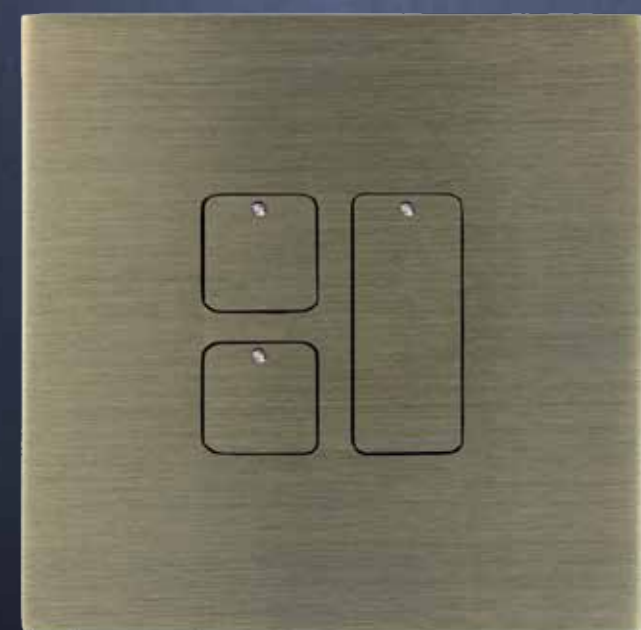
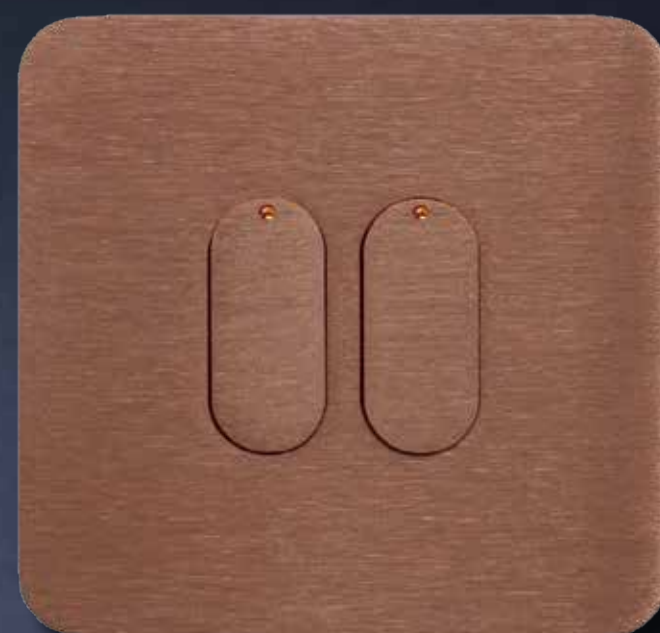
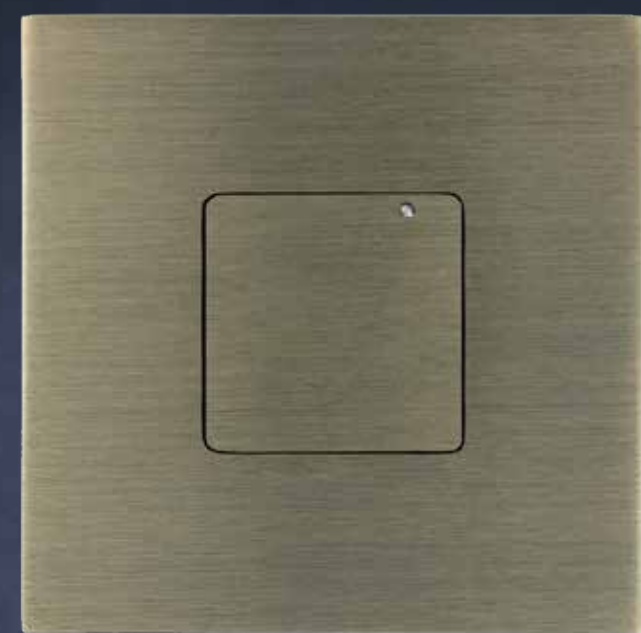
## CONNECTION DIAGRAM



**DIMENSION**  
L: 50mm  
W: 35mm  
H: 20mm

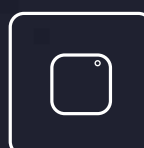
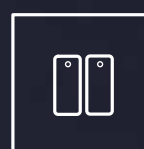
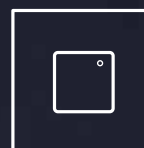






## ATHENE B4

KREPIS



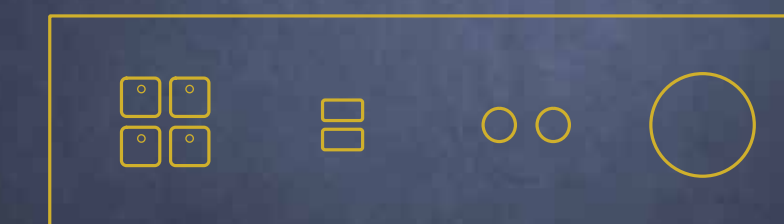
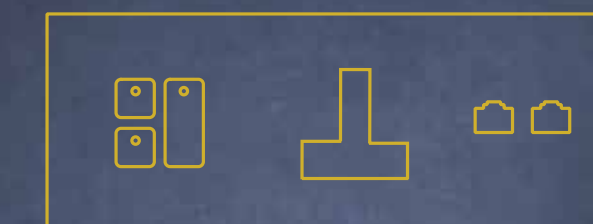
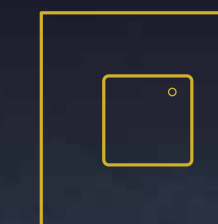
RADIUS

With Push Button, the new product of Athene series, classic key elegance and KNX comfort are now together ...

## ATHENE B4



## NEW SERIES PUSH BUTTON



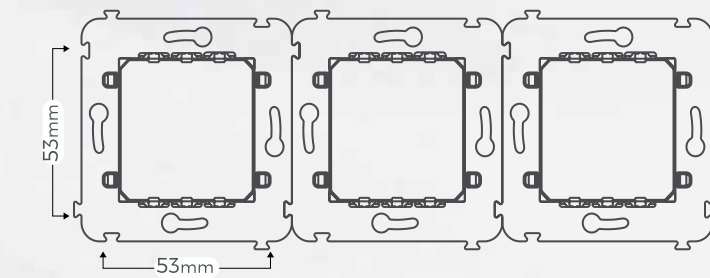
Athene B4 provides flexibility of use by being produced in the desired configuration in multi-frame applications.



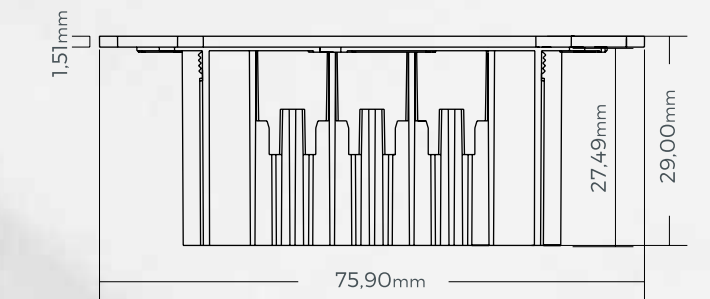


# ATHENE MONTAGE

## Athene Mounting Plate

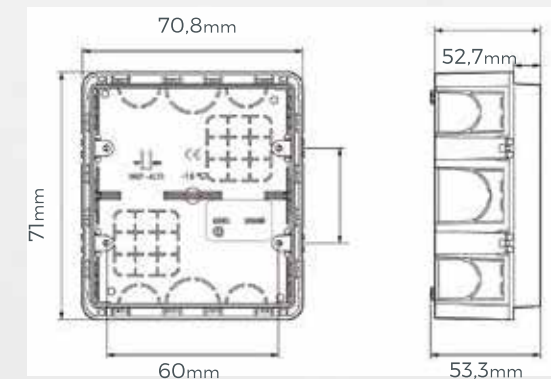
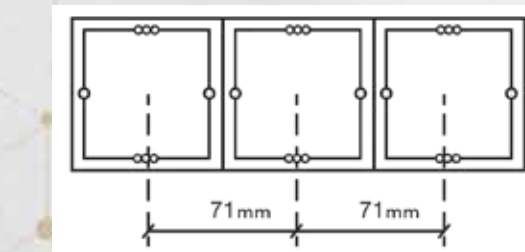


- 2 Frame 123,44 mm
- 3 Frame 193,94 mm
- 4 Frame 264,44 mm
- 5 Frame 334,94 mm



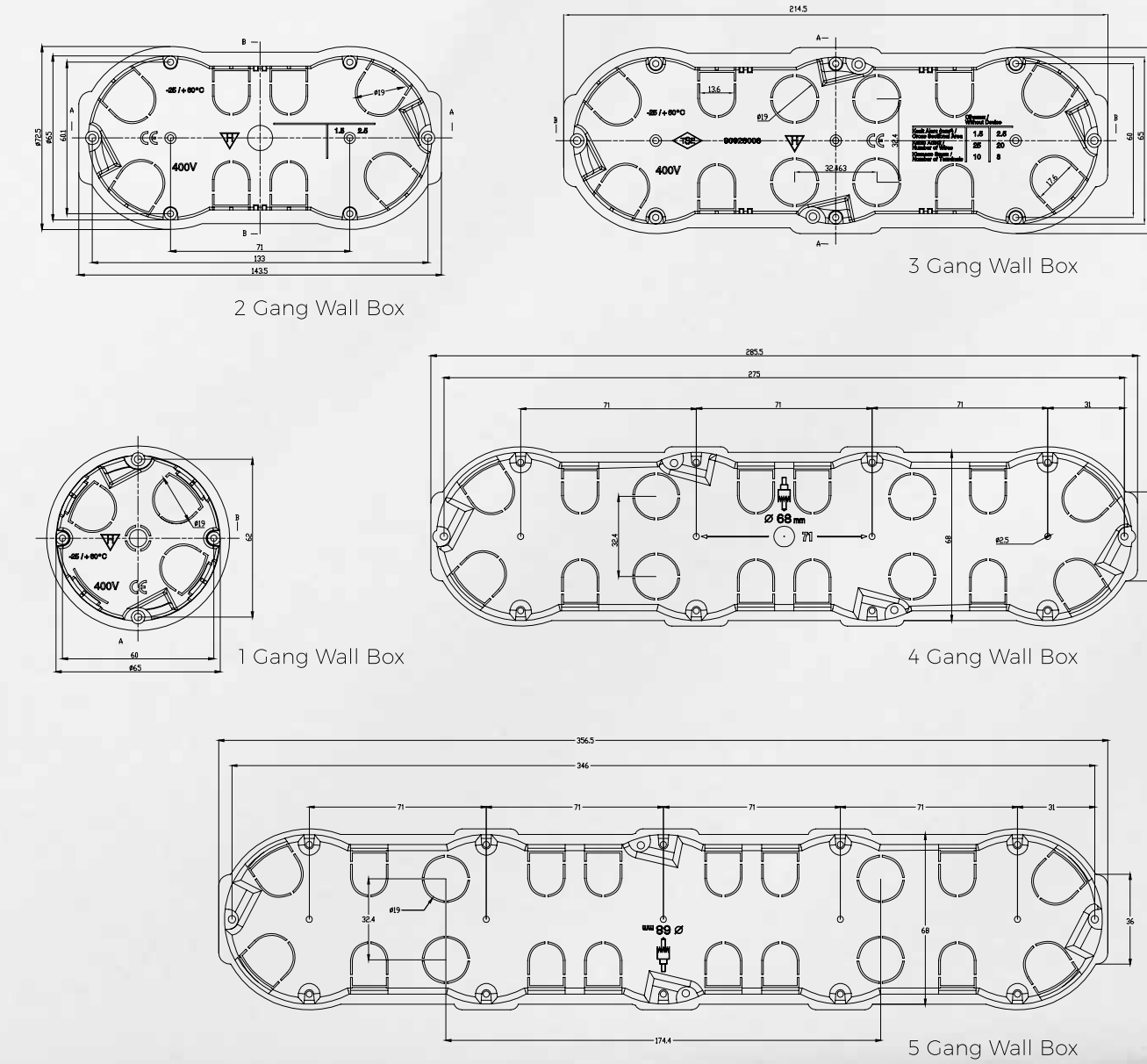
2-modules 502E boxes can be installed side by side without the need for accessories.

## EU 2M Standart Box



Athene can be wall mounted with special plate for concrete walls and hollow walls. Square plug-in crates are used for concrete walls, while single-to-five case alternatives are used for hollow walls.

## HOLLOW WALL BOXES DIMENSIONS



# B4 Thermostat

Simple. Elegant

B4 Room thermostat with touch screen is applied in Athene frame. Combinations with wiring accessories or knx B4 button are available.







MM1-10-640-11 KNX POWER SUPPLY 640 MA (SNOW1 SERIE)

DESCRIPTION	Knx Power Supply 640 Ma
TYPE OF PROTECTING	IP 20, EN 60 529
SAFETY CLASS	EN 60664
POWER SUPPLY	150-275V AC, 50-60Hz
OUTPUT	KNX BUS 30 VDC +1/-2 V, SELV (integrated choke)
OUTPUT 2 (AUX)	30 VDC +1/-2 V
RATED CURRENT	640 mA
	30 VDC +1/-2 V, SELV
SHORT-CIRCUIT CURRENT	1,5 A
DIMENSION	70 x 90 x 60 mm (Width x Height x Depth)
DIN MODULE WIDTH	4
INSTALLATION	EN 60 715 (35mm DIN Rail)
SCREW TERMINALS	0,2–5,3 mm2 solid stranded wire
NET WEIGHT	290 gr

MM1-30-88-11 8 FOLD INTERFACE IO + 8 DIGITAL INPUT + 8 ANALOG INPUT (FOR HEAT READING)

SUPPLY	EIB Power Supply
POWER CONSUMPTION	Typ. 300 mW
TRANSMISSION WAVE FREQUENCY	38 Khz
EMITTING DISTANCE	7m
MODULATION	Frequency Shift Keying (FSK)
SECURITY MODE	2
TRANSMISSION POWER	max. 2.5 mW (+4 dBm)
RANGE	up to 10 m
CONNECTION USER INTERFACE	2 x 5-pin header
TEMPERATURE RANGE	Ambient -5° C + 45° C Storage -25° C + 55° C
HUMIDITY	max. air humidity 85 % no moisture condensation
PROTECTION CLASS	III
DEGREE OF PROTECTION	IP 20
DIMENSIONS	D x W x H in mm 40 x 40 x 13
WEIGHT	0,10 kg
MATERIAL	Plastic, polycarbonate, colour grey
CE	In accordance with the EMC guideline and low voltage



MM1-30-BT-11 KNX-BLUETOOTH GATEWAY / CAN BE CONTROLLED BY MOBILE APP OR 3 PCS OF REMOTE  
MM-RMT-11, PROGRAMMED BY ETS

The KNX Bluetooth Gateway is a compact gateway with 255 freely configurable channels ( KNX data points ).  
The device allows easy integration of MM-RMT-11 remote devices supporting the Bluetooth protocol into KNX project.

MM-RMT-11 KNX-BLUETOOTH REMOTE

Can Make 12 Short & 12 Long Press Controls, Switch, Dimming, Shutter, Blinds Etc.

MM1-20-1212-11 KNX ACTUATOR WITH DIGITAL INPUT, 12 CH - 12 DI, SNOW1 SERIE  
MM1-20-1612-11 KNX ACTUATOR WITH DIGITAL INPUT, 16 CH - 12 DI, SNOW1 SERIE  
MM1-20-2412-11 KNX ACTUATOR WITH DIGITAL INPUT, 24 CH - 12 DI, SNOW1 SERIE



SUPPLY VOLTAGE	Knx 30 VDC	
KNX CURRENT CONSUMPTION	Max. 10mA	
KNX MODE	S-Mode	
CONNECTION	Knx Connection	
TYPE OF PROTECTION	IP 20	
INSTALLATION	En 60 715 (35mm DIN Rail)	
OUTPUT SWITCHING CURRENTS	20A	
INRUSH	Up to 320A/2ms	
TEMPERATURE RANGE	Operation -10...70 °C Transport. -25...70 °C Storage -25...100 °C	
DIMENSIONS	12 OUTPUTS	(WxHxD)
	16 OUTPUTS	138 x 90 x 64 mm (8 DIN module width)
	24 OUTPUTS	210 x 90 x 64 mm (12 DIN module width) 210 x 92 x 64 mm (12 DIN module width)
HOUSING	Abs V0	
CONNECTION TERMINALS	4mm²	
CERTIFICATE	Ce	





**MM1-11-320-11 KNX POWER SUPPLY 320 MA (NIGHTSKY1 SERIE)**  
**MM1-11-640-11 KNX POWER SUPPLY 640 MA (NIGHTSKY1 SERIE)**



DESCRIPTION	Knx Power Supply
TYPE OF PROTECTING	IP 20, EN 60 529
SAFETY CLASS	EN 60664
POWER SUPPLY	150-275V AC, 50-60Hz
OUTPUT	KNX BUS 30 VDC +1/-2 V, SELV (integrated choke)
SHORT-CIRCUIT CURRENT	1,5 A
DIMENSION	70 x 90 x 60 mm (Width x Height x Depth)
DIN MODULE WIDTH	4
INSTALLATION	EN 60 715 (35mm DIN Rail)
SCREW TERMINALS	4 mm2 solid stranded wire
NET WEIGHT	290 gr



**MM-20-04-111 KNX COMBO ACTUATOR 4 CH ON-OFF, NIGHTSKY SERIE**  
**MM-20-08-111 KNX COMBO ACTUATOR 8 CH ON-OFF, NIGHTSKY SERIE**  
**MM-20-12-111 KNX COMBO ACTUATOR 12 CH ON-OFF, NIGHTSKY SERIE**  
**MM-20-16-111 KNX COMBO ACTUATOR 16 CH ON-OFF, NIGHTSKY SERIE**  
**MM-20-24-111 KNX COMBO ACTUATOR 24 CH ON-OFF, NIGHTSKY SERIE**

SUPPLY VOLTAGE	Knx 30 VDC
KNX CURRENT CONSUMPTION	Max. 10mA
KNX MODE	S-Mode
CONNECTION	Knx Connection
TYPE OF PROTECTION	IP 20
INSTALLATION	En 60 715 (35mm DIN Rail)
NUMBER OF OUTPUT	4, 8, 12, 16, 24
OUTPUT SWITCHING CURRENTS	16A
INRUSH CURRENT	105

TEMPERATURE RANGE	Operation	-10...70 °C
	Transport.	-25...70 °C
DIMENSIONS	Storage	-25...100 °C
	(WxHxD)	
FUNCTIONS	4 OUTPUTS	54 x 92 x 64 mm (3 DIN module width)
	8 OUTPUTS	90 x 92 x 64 mm (5 DIN module width)
	12 OUTPUTS	108 x 92 x 64 mm (6 DIN module width)
	16 OUTPUTS	144 x 92 x 64 mm (8 DIN module width)
	24 OUTPUTS	198 x 92 x 64 mm (11 DIN module width)
HOUSING	Switching/valve	
	Shutter	
	3-point valve	
	Fan Coil	
CONNECTION TERMINALS	ABS V0	
CERTIFICATE	4mm <sup>2</sup>	
	Ce	

Function	4 ch	8 ch	12 ch	16 ch	24 ch
Fan Coi	1	2	3	4	8
3-point valve	2	4	6	8	12
Shutter	2	4	6	8	12
Switch / valve	4	8	12	16	24

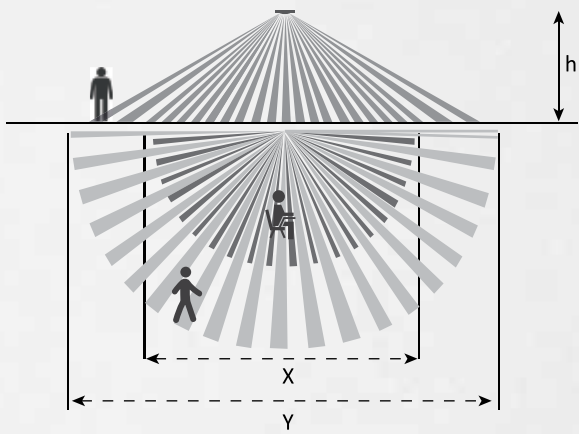
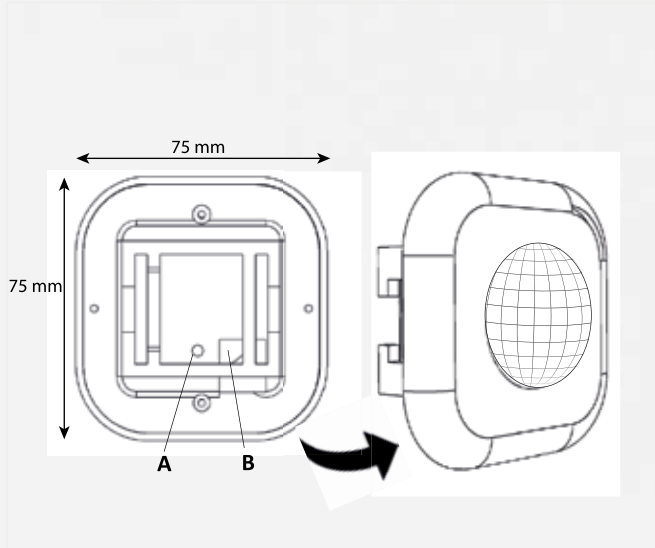




## Multi Sensor

### General Specifications

The device is a presence and movement detector designed for indoor use. It is used to switch and regulate the brightness level in dependence of movement/presence in lighting systems and/or HVAC systems. It is supplied directly from the KNX line without the need of any external power supply. It is suitable for installing flush and surface mounting (with the surface mounting box). Constant brightness control can be done. It will transfer the data collected by the temperature and humidity sensors to the KNX line.



A	Programming button
B	KNX connection terminal

Mounting height (h)	2,5 m	3 m	4 m
Detection area (X) (Seated person)	4 m	5 m	6 m
Detection area (Y) (Walking person)	10 m	11 m	12 m

### Technical Specification

Supply voltage	KNX 30 VDC
KNX current consumption	10 mA
KNX mode	S-Mode
Connection	KNX connection terminal
Protection class	IP 20
Sensor type	PIR, illumination, temperature, humidity
Mounting	Surface or flush mounting
Mounting height	2.5-4 m
Detection	6-10 m (diameter)
Brightness measurement	10...1000 lux
Temperature range	Operation -5...+45°C Transport -25...+70°C Storage -25...+55°C
Relative humidity measurement	< 80 %
Certificate	CE

## Universal Interface

### General Specifications

MM1-30 device is a universal input/output device that can be used indoors. It detects the status of the contact which is connected via the colored cables (included in the box) and transmits the appropriate data type information to the KNX line. In output mode, the LEDs which are connected via colored cables can be turned on or off according to the information coming from the KNX line. The device is powered from the KNX line, so a separate power supply is not required for contact scanning or LED driving. If desired, the device can perform contact scanning when energized. The device has up to 9 channels and each channel can be programmed as an input or an output. Input functions: Value Sender, Dimmer, Shutter, Counter. Permanent or classical type switches can be connected to each input, normally open or normally closed can be selected with active/passive feature. In permanent type contact connections, it is possible to get different data type information from different outputs for both states of the contact, and in normal or long press conditions in spring type switches. Both states of permanent type switches and normal or long press conditions of classical type switches information can be transmitted to KNX line with different data types.

### Technical Specifications

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
Dimensions	38 x 41 x 14 mm
Housing	UI3 45 g / UI6 55 g / UI9 65 g
Certificate	CE





## MM ELECTRO DİZAYN ELEKTRONİK SAN. TİC A.Ş.

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Email: [info@mmelectro.com](mailto:info@mmelectro.com)

Website: [www.mmelectro.com](http://www.mmelectro.com)