

ingenium \*  
**B**es

[www.besknx.com](http://www.besknx.com)



**BES, Ingenium's KNX commitment**





## ***BES, Ingenium's KNX commitment***

After more than two decades of activity, **Ingenium** continues with its activity of **development, design and manufacture** of home automation solutions, and 100% of this activity is carried out at the headquarters in **Asturias, Spain**. All this time has served to strengthen Ingenium product line based on BUSing protocol, as well as to evolve **KNX BES** line or to complement **Wings** wireless range, which allows any BUSing wired installation to be extended. Since 2020, Ingenium has been developing **new IoT devices** that allow Ingenium to evolve in an agile way in this changing and innovative market. A family of **new IoT sensors for CO<sub>2</sub> measurement** are a perfect example of this.

**BES KNX** product line continues to evolve, and this catalog includes all of **Ingenium's KNX** product portfolio from a commercial view. The range of **BES KNX** solutions continues to grow with the intention of covering all types of home automation installations that require KNX solutions. Few examples:

### New VIIP screens

This 2021 version of BES KNX catalog includes all the **new references of the new VIIP home automation screen, with integrated video intercom system functionality** and support for **SIP installations**. A screen with an extremely slim design, available in 71" or 101", and with **different network interfaces** such as Wi-Fi connection and / or up to two ethernet connectors. At visualization level, it allows to show the KNX installation in plans with customizable images, or organized by rooms, so that the client can choose the option that is most comfortable for him and design it to his liking through the mobile applications for iOS or Android. (Page 19)

As a complement to the new family of VIIP screens, an **IoT web server** is added with support for **call forwarding** in installations with SIP video intercom, in addition to having **IFTTT**.

### Thermostats and CO<sub>2</sub> detectors

Regarding **CUBIK** temperature and humidity sensors range, there are added references incorporating **CO<sub>2</sub> measurement** to TH and TL models, which allow controlling **air quality** in the room in which they are installed. With this new version of CUBIK sensors, Ingenium is committed to innovation and adaptability to new times, where air quality control becomes very important, especially in closed spaces. (Page 12)










A new **temperature and humidity** sensor, CUBIK-TLR, has been added to the **CUBIK family of thermostats**, with an attractive circular panel at the top that allows controlling the desired temperature, as well as different operating modes. It has also 8 programmable touch areas. (Page 13)





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Visualization	
Integrations	
Energy Efficiency	
Technical Alarms	
Lighting	
Supply	
Presence	
Blinds	
Clima	

# PUSH-BUTTONS & THERMOSTATS\*



Cubik V8  
Cubik V6  
Cubik SQ6  
Cubik SQ4  
Cubik SQ2

Cubik T  
Cubik TH  
Cubik TL  
Cubik TLR



**PUSH-BUTTONS**

The new CUBIK series has several models with different number of touch areas.

A LED light indicator is associated with each of these areas.

There are two sizes depending on the model: square format and vertical rectangular format.

They incorporate built-in temperature and humidity sensors capable of sending the information to the KNX BUS.

Design tool:



Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

**Basic**

Front glass fixed, white or black.

**Design**

Front glass fixed, print customizable.

**Capriccio**

Front glass interchangeable, print customizable.

**CUBIK V8**



Capacitive push-button with 8 independent touch areas, completely programmable. LED indicator associated with each touch area.

Vertical rectangular format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

White: PL128100

Black: PL128200

White: PL228100

Black: PL228200

White: PL328100

Black: PL328200

**CUBIK V6**



Capacitive push-button with 6 independent touch areas, completely programmable. LED indicator associated with each touch area.

Vertical rectangular format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

White: PL126100

Black: PL126200

White: PL226100

Black: PL226200

White: PL326100

Black: PL326200

**CUBIK SQ6**



Capacitive push-button with 6 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

White: PL116100

Black: PL116200

White: PL216100

Black: PL216200

White: PL316100

Black: PL316200

**CUBIK SQ4**



Capacitive push-button with 4 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

White: PL114100

Black: PL114200

White: PL214100

Black: PL214200

White: PL314100

Black: PL314200

**CUBIK SQ2**



Capacitive push-button with 2 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

White: PL112100

Black: PL112200

White: PL212100

Black: PL212200

White: PL312100

Black: PL312200





## THERMOSTATS

With or without graphical interface. They include temperature and humidity sensors. Versions available with CO<sub>2</sub> measurement on TH and TL models.

Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

Design tool:



### CUBIK-T / CUBIK-TH



Thermostat for temperature control of one independent air conditioning area.

Includes PI regulator for controlling temperature with higher accuracy for better energy efficiency and comfort

On/Off, PWM or continuous temperature controller for main and additional heat/cool system.

Easy Logic Unit.

CUBIK-TH includes humidity sensor. Dew point measurement according to relative humidity and temperature.

### CUBIK-TL



Thermostat with LED indicators for the control of one air conditioning area.

Eight completely programmable independent touch areas.

Includes a discretized PI regulator to achieve greater comfort and energy savings.

Built-in humidity sensor.

Dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

### CUBIK-TLR



Thermostat with LED indicators for the control of one air conditioning area.

Eight completely programmable independent touch areas, plus thermostat controls in the upper area of the device to control working modes or fan speeds.

Includes a discretized PI regulator to achieve greater comfort and energy savings.

Built-in humidity sensor. Dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

CUBIK-T  
Without CO<sub>2</sub>

CUBIK-TH  
Without CO<sub>2</sub> / With CO<sub>2</sub>

CUBIK-TL  
Without CO<sub>2</sub> / With CO<sub>2</sub>

CUBIK-TLR  
Without CO<sub>2</sub>

#### Basic

White: SR591110

White: SR591310 / SR591311

White: SR591210 / SR591211

Blanco: SR591410

Front glass fixed, white or black.

Black: SR591120

Black: SR591320 / SR591321

Black: SR591220 / SR591221

Negro: SR591420

#### Design

White: SR592110

White: SR592310 / SR592311

White: SR592210 / SR592211

Blanco: SR592410

Front glass fixed, print customizable.

Black: SR592120

Black: SR592320 / SR592321

Black: SR592220 / SR592221

Negro: SR592420

#### Capriccio

White: SR593110

White: SR593310 / SR593311

White: SR593210 / SR593211

Front glass interchangeable, print customizable.

Black: SR593120

Black: SR593320 / SR593321

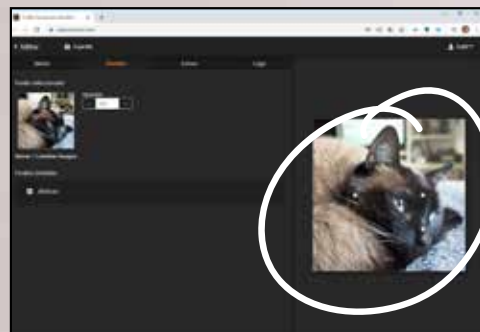
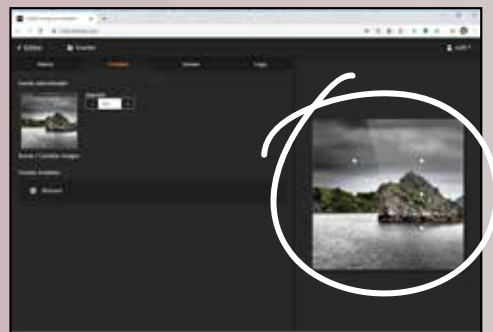
Black: SR593220 / SR593221



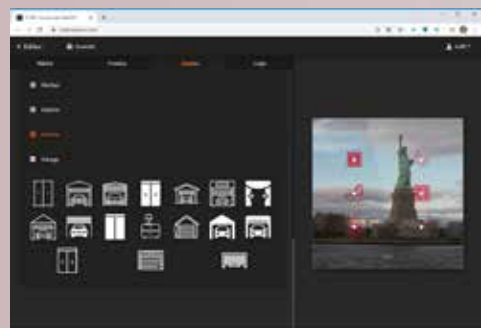
## And for a hotel room?

Discover our CUBIK-VH series for hotels on page 57.

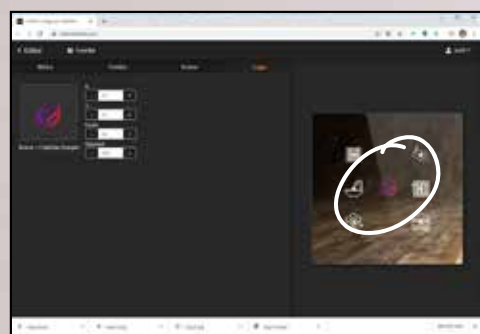
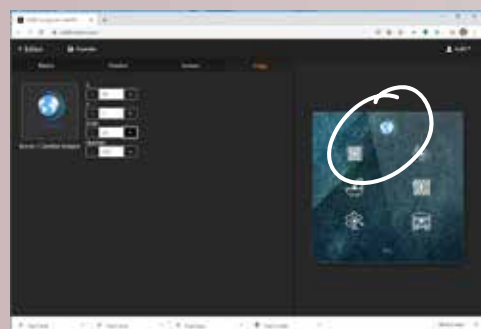




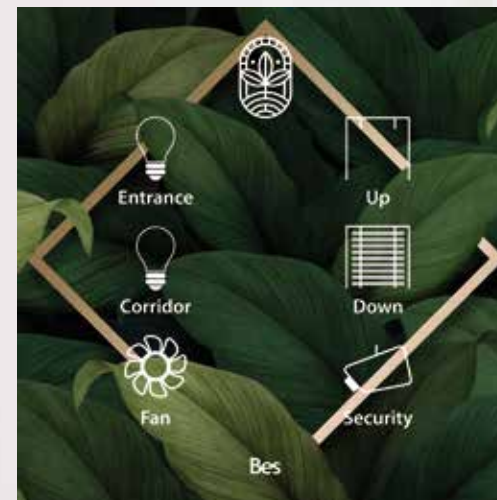
→ Choose your background images



→ Select and edit your icons



→ Add your logo



Design tool:



**Customize 100%  
your Cubik  
with our online tool**

<https://cubik.besknx.com/>

*...and much more*





# VISUALIZATION\*



VIIP7 - SIP  
VIIP10 - SIP  
SmartTouch-K PLUS

TRMD-K  
ETHBUS-K-IoT  
ETHBUS4-K





**: entering the future...**

advanced home automation control and video intercom in a single touch device

*Color capacitive touch screen with SIP video intercom support*



VIIP



Color capacitive touch screen with SIP video intercom support that also includes monitoring and control of a KNX installation. Available in 7,1" and 10,1".

Visualization by plans or by rooms totally configurable by the user.

Possibility of call forwarding to mobile.

Versions available with WiFi, and / or up to 2 Ethernet network interfaces.

Incorporates web server for remote control from the free Ingenium Apps for iOS or Android.

It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.

Supports arithmetic and logic unit and scripting.

Compatible with Google Home and Alexa. Native integration with devices of other protocols such as ZWave, Zigbee, etc.

IFTTT Support, and MQTT Broker. Possibility of configuration as a Modbus client or server.

Support for Python programming, intended for advanced user scripting.

	Wi-Fi	Wi-Fi + 1xRJ45	Wi-Fi + 2xRJ45
<b>7,1"</b>	White: DS170100 Black: DS170200	White: DS171100 Black: DS171200	White: DS172100 Black: DS172200
<b>10,1"</b>	White: DS110100 Black: DS110200	White: DS111100 Black: DS111200	White: DS112100 Black: DS112200



SmartTouch-K PLUS



4.3" capacitive and vertical touch screen for controlling and monitoring a KNX installation.

Web server for remote control from Ingenium free apps (iOS or Android).  
Compatible with Google Home and Alexa.

32 control icons distributed in 4 pages.

Logical unit and scripts included.

Fully customizable appearance by software.

In-built temperature sensor with thermostat. Supports weekly timings for thermostat configuration.

Technical alarms support.

White: DS343100

Black: DS343200

White mounting box: DS940100

Black mounting box: DS940200



TRMD-K



KNX vertical thermostat, with large touch area and integrated 2.8" screen to manage an independent climate zone. It includes speed control, modes, measured temperature, setpoint temperature, etc.

Supports weekly timings for thermostat configuration. In-built temperature sensor with thermostat.

Menu with options for themes of appearance, brightness, language, etc.

It incorporates PI automatic regulation algorithms to control the temperature with greater precision, improving comfort and energy saving.

On/Off, PWM or continuous temperature controller, which allows control of the main and additional cold / heat systems.

Arithmetic logical unit and timers.

**Basic** White: DS421100

Black: DS421200

**Design** White: DS422100

Black: DS422200

White mounting box: DS940100

Black mounting box: DS940200





ETHBUS-K-IoT



- Web server for remote control from Ingenium free apps (iOS or Android) and from a web browser.
- Visualization by plans or by rooms totally configurable by the user.
- SIP video intercom support with possibility of call forwarding to mobile.
- Integrated WiFi, and Ethernet network interface.
- It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.
- Supports arithmetic and logic unit and scripting.
- Compatible with Google Home and Alexa. Native integration with devices of other protocols such as ZWave, Zigbee, etc.
- IFTTT Support, and MQTT Broker. Possibility of configuration as a Modbus client or server.
- Support for Python programming, intended for advanced user scripting.

DS203000



ETHBUS4-K



- Web server for remote control from Ingenium free apps (iOS or Android) and from a web browser.
- Visualization by plans or by rooms totally configurable by the user.
- Integrated WiFi, and Ethernet network interface.
- It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.
- Supports arithmetic and logic unit and scripting.
- Compatible with Google Home and Alexa.
- Possibility of configuration as a Modbus server.

DS202020

# INPUTS\* OUTPUTS

\*  
2E2S-K  
3E2S-K  
4E-K  
4E4SL-K  
6E4S-K-16A

6E4S-K-30A  
7S-K  
9S-K  
16S-K  
22S-K



2E2S-K



Binary actuator with 2 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.  
Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc.).

2 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT422220



3E2S-K



Binary actuator with 2 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.  
Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc.).

3 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT423220



4E-K



4 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Programmable inputs for working simultaneously or independently in different modes (binary inputs, blinds, dimmers, etc).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT454020



4E4SL-K



Binary actuator with 4 SELV outputs for the control of 5Vdc signalling LEDs.

4 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Inputs work simultaneously or independently in different modes (binary outputs, blinds, dimmers, etc.).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT454420



6E4S-K



Binary actuator with 4 potential-free relay outputs with a cutting power of 16A or 30A @ 230V each one.

Multifunction programming.  
Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).

6 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

**16 amps: 6E4S-K-16A**

CT416420

Manual control: CT416440

**30 amps: 6E4S-K-30A\***

CT416430

\* This reference allows manual control.





7S-K



KNX climate zone actuator with 7 outputs (18V DC)  
 Device for controlling motorized grilles to zoning the air conditioning of a KNX installation.  
 It has 7 independent channels, corresponding to each zone/grill.  
 Arithmetic-logic unit and timers/counters.  
 Programming by ETS parameter application.

CT430720



9S-K



Binary actuator with 9 potential-free relay outputs with a cutting power of 16A @ 230V each one.  
 Multifunction programming.  
 Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).  
 Arithmetic-logic unit and timers/counters.  
 Programming by ETS parameter application.

CT430920

Manual control: CT430940



16S-K



Binary actuator with 16 potential-free relay outputs with a cutting power of 16A @ 230V each one.  
 Multifunction programming.  
 Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).  
 Arithmetic-logic unit and timers/counters.  
 Programming by ETS parameter application.

CT431620

Manual control: CT431640



22S-K



Binary actuator with 22 potential-free relay outputs with a cutting power of 16A @ 230V each one.  
 Multifunction programming.  
 Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).  
 Arithmetic-logic unit and timers/counters.  
 Programming by ETS parameter application.

CT432220

Manual control: CT432240

# DIMMERS



RKU1S200  
RKU2S200  
RKU3S200  
RK0104C  
RK1103C  
RK1102C

RGBWL-K  
DMXBUS-K  
DALIK  
DALIK-BRD3

*Universal dimmers*



RKU1S200



1 channel universal dimmer.  
200W maximum output power.  
Suitable for all types of lighting:  
incandescent, halogen or LED.

Easy and functional configuration: ramps,  
staircase timers, scenes, etc.

Built-in mounting in universal  
distribution box.

DM470120

RKU2S200



2 channel universal dimmer.  
200W maximum output power for each  
channel.  
Suitable for all types of lighting:  
incandescent, halogen or LED.

2 inputs for conventional pushbutton  
control.

Easy and functional configuration: ramps,  
staircase timers, scenes, etc.

DM470220

RKU3S200



3 channel universal dimmer.  
200W maximum output power for each  
channel.  
Suitable for all types of lighting:  
incandescent, halogen or LED.

3 inputs for conventional pushbutton  
control.

Easy and functional configuration: ramps,  
staircase timers, scenes, etc.

DM470320

*0-10V*



RK0104C



4 channels dimmer.  
Suitable for 0-10Vdc lighting control or AC  
units with 0-10V interface.

Simple and functional parameterization:  
ramps, staircase timers, scenes, etc.

DM460400

*1-10V*



RK1103C



3 channels dimmer.  
16 A maximum output power per channel.  
Suitable for 1-10Vdc lighting control.

Simple and functional parameterization:  
ramps, staircase timer, scenes, etc.

DM460300



RK1102C



2 channels dimmer.  
1 A maximum output power per channel.  
Suitable for 1-10Vdc lighting control.

Simple and functional parameterization:  
ramps, staircase timer, scenes, etc.

Built-in mounting, in universal distribution  
box or in false ceiling next to the ballast  
1-10 Vdc.

DM460200



*RGBW*



RGBWL-K



Dimmer for RGBW LED modules (12V to 24V).  
 Possibility of controlling 4 monochromatic channels individually or simultaneously for RGBW.  
 Allows to dim brightness or choose from the whole color range with pushbuttons.  
 Easy configuration of up to 8 scenes and 8 color sequences.  
 Built-in on universal distribution box.

DM480440

*DMX*



DMXBUS-K



Bi-directional communication gateway between KNX protocol and DMX512 protocol.  
 Allows to control DMX devices from the KNX system, being possible to choose between master or slave mode.  
 Control up to 48 DMX channels simultaneously.  
 Possibility to program and execute up to 8 scenes and 8 sequences.

GW612110

*DALI*



DALIK



Gateway between KNX and DALI protocols.  
 DALI power source integrated.  
 Allows to control 64 lights and 16 groups from the KNX system.  
 Supports emergency lights.  
 Multiple functionalities for each light: dimming, on/off, scenes, failure warnings, etc.

GW611100



DALIK-BRD3



Gateway between KNX and DALI protocols.  
 DALI power supply integrated.  
 It allows to control 3 channels and up to 64 ballasts by broadcast orders, being possible to split number of ballast per channel as interested.  
 Ability to configure up to 64 scenes.  
 3 inputs available for conventional pushbutton control.  
 Possibility of using it as an autonomous device.

GW610300

# SENSORS\*

\*  
SIFKNX  
SIFKNX-S

SIFLUX  
SIFLUX-S  
SRKNX



SIFKNX



Presence infrared detector with brightness sensor.  
 Built-in and discreet installation with 360° detection.  
 2 detection channels.  
 Suitable for lighting control by threshold, motion detection, intrusion control, etc.  
 Also available in black color.



- White: SR510000
- Black: SR510200



SIFKNX-S



Presence infrared detector with brightness sensor.  
 Surface installation with 360° detection.  
 2 detection channels.  
 Suitable for constant brightness control, motion detection, intrusion control, etc.

- White: SR511000



SIFLUX



Presence infrared detector with constant regulation.  
 Allows to keep a constant lighting level in a room, working together with a dimmer.  
 Built-in and discreet installation with 360° detection.  
 2 detection channels.  
 Suitable for constant brightness control, motion detection, intrusion control, etc.  
 Incorporates temperature sensor for additional measurement.

- White: SR530000



SIFLUX-S



Presence infrared detector with constant regulation.  
 Allows to keep a constant lighting level in a room, working together with a dimmer.  
 Surface and discreet installation with 360° detection.  
 2 detection channels.  
 Suitable for constant brightness control, motion detection, intrusion control, etc.  
 Incorporates temperature sensor for additional measurement.

- White: SR531000



SRKNX

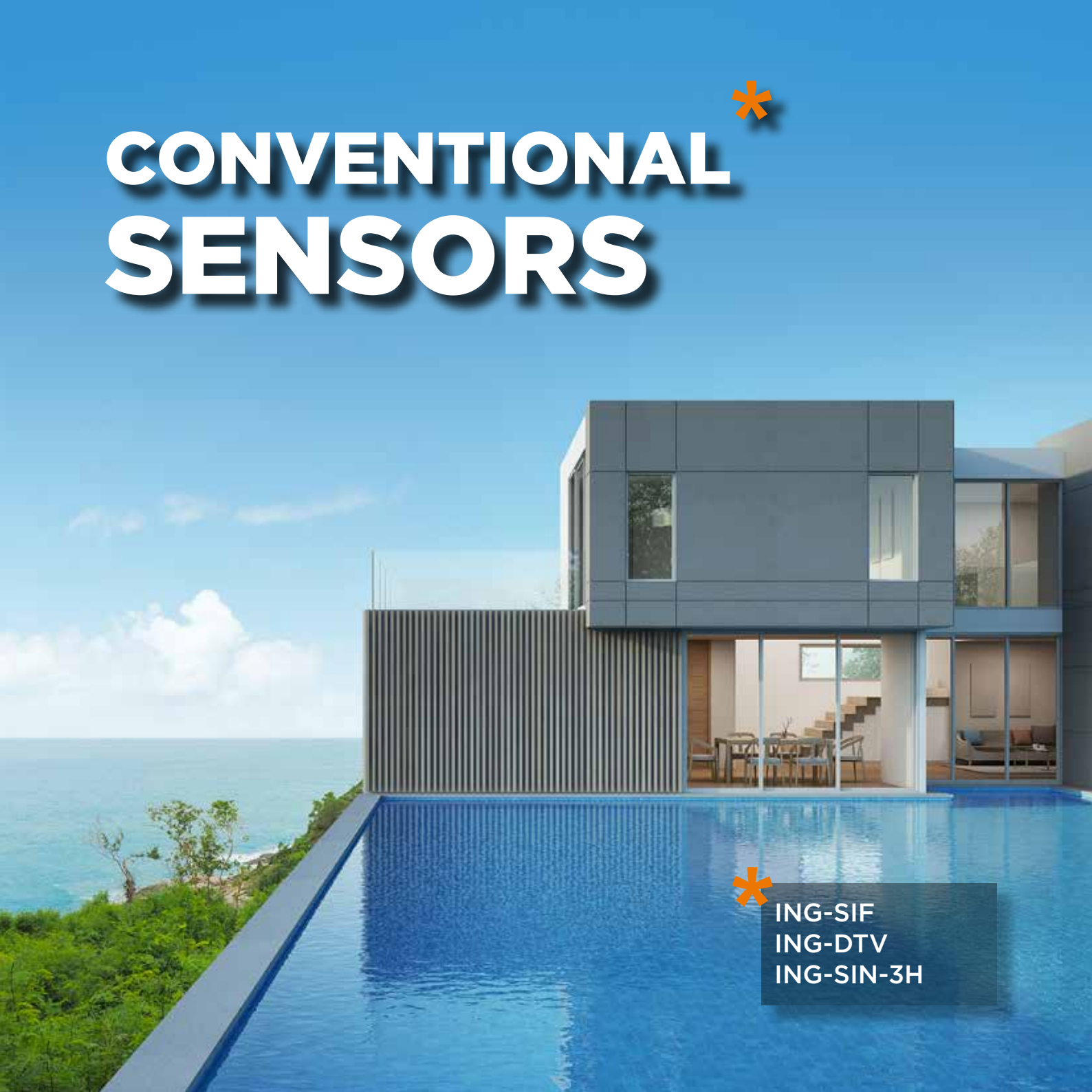


Presence detector with radio-frequency technology for hidden installation.  
 360° detection through non-metallic surfaces for installation in technical and false ceilings.  
 Safe against sabotage and non-desired manipulation due to its hidden installation.  
 2 detection channels.  
 Suitable for lighting, motion detection, intrusion control, etc.

- SR570000



# CONVENTIONAL SENSORS \*



\*  
**ING-SIF**  
**ING-DTV**  
**ING-SIN-3H**



ING-SIF



Infrared movement sensor 12 Vdc.  
 Embedded.  
 Requires a digital input connection (e.g. CT454020).



ING-DTV



Fire thermovelocimetric detector.  
 Requires a digital input connection (e.g. CT454020).  
 Surface mounted.



ING-SIN-3H



Flooding sensor.  
 3 wires.  
 12Vdc-32Vdc supply required.  
 Requires a digital input connection (e.g. CT454020).

# CLIMA\*



DKAC-K  
DKAC-D  
MBAC-K  
LGAC-K  
LGAC-D

MDAC-K  
PNAC-K  
IRKNX  
IRKNX-BI



DKAC-K



Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit (SKY or VRV series) with KNX system.

5 operating modes (auto, heat, cold, ventilation and dry).

3 fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW630100



DKAC-D



Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit with KNX system.

5 operating modes (auto, heat, cold, ventilation and dry).

3 fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW630200



MBAC-K



Gateway between KNX protocol and Mitsubishi air conditioning system.

Integrates an indoor Mitsubishi climate unit with KNX system through CN105 connector.

5 operating modes (auto, heat, cold, ventilation and dry).

3 fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW631100



LGAC-K



Gateway between KNX and LG HVAC protocols.

Integrates LG systems (VRV series) with the KNX system.

Possibility of controlling up to 64 interior units.

5 working modes (cooling, heating, ventilation, drying and auto).

4 fan speeds (low, medium, high and auto).

GW632220



LGAC-D



Gateway between KNX and LG HVAC protocols.

Integrates LG systems (VRF series) with the KNX system.

Direct connection to LG indoor unit.

5 working modes (cooling, heating, ventilation, drying and auto).

4 fan speeds (low, medium, high and auto).

GW632100



\* Check compatibility of each gateway in the lists published on our website.

\* Check compatibility of each gateway in the lists published on our website.





MDAC-K



Gateway between KNX protocol and Midea air conditioning system.

Integrates an indoor Midea climate unit with KNX systems.

5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW633100



PNAC-K



Gateway between KNX protocol and Panasonic air conditioning system.

Integrates an indoor Panasonic climate unit (series ECOi or PACi) with KNX systems through 2 wires with polarity connection.

5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW634100



\* Check compatibility of each gateway in the lists published on our website.



IRKNX



Infrared transmitter with memory for 255 codes.

Substitutes the infrared remote control of any device and integrates the control in the KNX system.

Allows to control many devices with the same transmitter.

Hidden installation in a mechanism box with a mini-jack-wire transmitter for controlling the device.

GW640000



IRKNX-BI



Bidirectional emitter and receiver of infrared codes for control of either IR devices from KNX and KNX devices from infrared devices.

Allows controlling multiple IR devices from the same equipment.

Hidden installation in mechanism box with minijack cable for controlling the device.

GW640200

# ENERGY EFFICIENCY



\*  
MET-3C  
MET-60A

## energy efficiency



MET-3C



Electric consumption meter of up to 3 channels.

Possibility of establishing consumption limits.

Alarm function in case of leaving the thresholds.

Interference to procedures of the interfaces of Bes and Apps of Ingenium.

GW650300

MET-60A



Current transformer of 60A.

GW650060



# KNX\* ACCESORIES

\*  
USB-K  
LIN-K  
IPR-K



USB-K



USB2.0 interface device with Type B connector.

Enables a data connection between PC and KNX bus line without need for an extra application program.

Access to every bus device in the KNX bus system for commissioning, addressing, setting parameters, visualization, protocolling and diagnostics.

BD910000



LIN-K



Line coupler. Can be used as a line/backbone coupler or as a line repeater in any KNX network.

Galvanic isolated data connection between two separate KNX bus lines (for both coupler and repeater function).

BD920000



IPR-K



IP routing & tunneling device without external power supply.

Data connection between (upper) KNXnet/IP line and (lower) TP KNX bus line.

Integrated KNX tunneling interface for commissioning, monitoring and diagnostics via ETS.

BD930000



# POWER\* SUPPLIES

\*  
BFK640-BU  
BFK640  
BFK320

BFK160  
BFK80



BFK640-BU



640mA KNX power supply with possibility of battery connection to maintain active the KNX installation in case of power failure.

Rail DIN mounted (six modules).

PS116410



BFK640



640mA KNX power supply.

29Vdc extra output.

PS116400



BFK320



320mA KNX power supply.

29Vdc extra output.

PS113200



BFK160



160mA KNX power supply.

29Vdc extra output.

PS111600



BFK80



80mA KNX power supply.

29Vdc extra output.

PS110800



# SOLUTIONS FOR HOTEL\*

\*  
ROOM CONTROLLER-K  
CUBIK-VH





*The best solution for the hotel*

Home automation solutions which make hotel management more effective and efficient. That is what BES offers in this sector. New tools that open a wide range of new functional and management possibilities, and that will facilitate the daily work.

Besides, with home automation system, greater energy savings and greater comfort for the guest are achieved.



ROOM CONTROLLER-K



Complete solution to control a hotel room.

Outputs for light dimming, on/off LED and/or conventional lighting, fancoil, electrovalves and total room on/off.

Inputs for the control and management of all the outputs, as well as inputs for card reader, technical alarm sensors and magnetic door and window detectors.

Integrable device with Cubik SQ and V, and door room device Cubik-VH. Also compatible with any KNX device.

GW669900



CUBIK-VH



MUR/DND device for hotel room.

Includes two icons to distinguish between "Do not disturb" and "Make up the room" modes.

Doorbell button and room number indicator added.

Without display

**Design** White: PL221100  
Black: PL221200

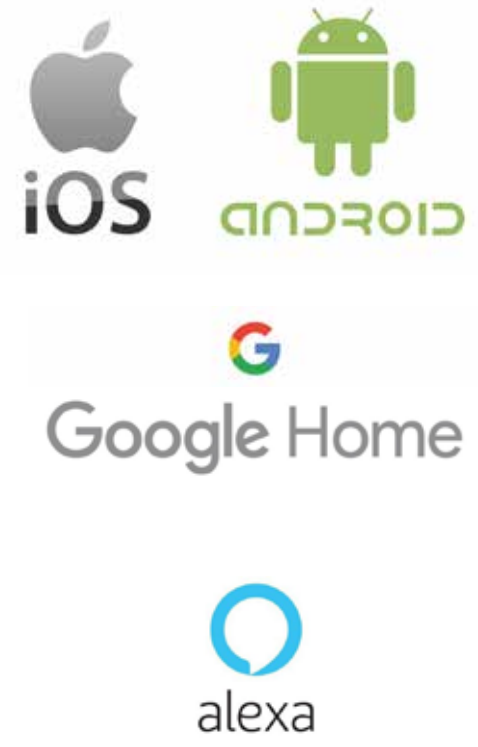
With display

**Basic** White: PL122100  
Black: PL122200

**Design** White: PL222100  
Black: PL222200



# SOFTWARE & APPS \*



- SIDEKNX - software for programming screens and web servers
- APP-iOS - App for iPhone and iPad
- APP-Android - App for Android devices
- Google Home - Voice control integration for KNX installations
- Alexa - Voice control integration for KNX installations
- Online design tool for CUBIKs - Página 14





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This catalog is subject  
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