

ingenium *
Bes

www.besknx.com



BES, Ingenium's KNX commitment





Ingenium HQ in Asturias, Spain.

BES, Ingenium's KNX commitment

After more than two decades of activity, **Ingenium** continues with its activity of **development, design and manufacturing** home automation solutions, and 100% of this activity is carried out at the headquarters of **Asturias, Spain**. All this time has served to strengthen the Ingenium product line based on **BUSing** protocol, as well as to complement **Wings** wireless range, which allows extending any wired **BUSing** installation. Also, for more than 14 years, **BES KNX** product line continues to evolve, and in this catalog all the information of the **BES** material based on the **KNX** standard is provided.

BES KNX line of solutions maintains its growth, complementing some product families, and improving others until it reaches a very complete and balanced catalog with the intention of covering all types of home automation installations which require **KNX** solutions. To this must be added, a **new online tool** that Ingenium launched at the beginning of the year for the **design and customization** of **CUBIK** buttons in a very simple and intuitive way, allowing any user profile to complete their own creations. Without a doubt, the best way to adapt the designs of the **BES capacitive pushbuttons** to the needs of each project.

In this new edition of **BES KNX** catalog, version 2020, stands out as a great novelty **VIIP**, the new color capacitive touch screen with **SIP** communications support, which in addition to video intercom functions, has a **KNX** control integrated natively. On the other hand, the family of products for **climate control** continues to grow with the arrival of two new KNX integration **gateways** with **Panasonic and Midea AC** brands. To all this, a new version of the infrared emitting device is also added, with the main and novel feature of being **bidirectional** being able to receive orders from IR side, and convert them into KNX telegrams.

Ingenium continues betting and investing in maintaining its identity, improving its headquarters facilities in Asturias, and their productive capacity. This allows to continue maintaining the high level of **design, development and manufacturing**, without a doubt, pillars on which the company's activity is based. It is this will to innovate, without neglecting the manufacturing process, that gives the trust of customers and makes every year, more users approach **BES**.



INDEX

Capacitive push-buttons	9
Visualization	17
Inputs-Outputs	25
Dimmers	31
Sensors	37
Conventional sensors	40
Clima	43
Integration: VDS video intercom	47
Energy Efficiency	48
KNX accesories	50
Power Supplies	53
Hotel solutions	57
Software & Apps	60

- Visualization
- Integrations
- Energy Efficiency
- Technical Alarms
- Lighting
- Supply
- Presence
- Blinds
- Clima

CAPACITIVE PUSH-BUTTONS*



Cubik V8
Cubik V6
Cubik SQ6
Cubik SQ4
Cubik SQ2

Cubik T
Cubik TH
Cubik TL



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.



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.



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.



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.



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.

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.

White: PL128100

Black: PL128200

White: PL126100

Black: PL126200

White: PL116100

Black: PL116200

White: PL114100

Black: PL114200

White: PL112100

Black: PL112200

Design

Front glass fixed, print customizable.

White: PL228100

Black: PL228200

White: PL226100

Black: PL226200

White: PL216100

Black: PL216200

White: PL214100

Black: PL214200

White: PL212100

Black: PL212200

Capriccio

Front glass interchangeable, print customizable.

White: PL328100

Black: PL328200

White: PL326100

Black: PL326200

White: PL316100

Black: PL316200

White: PL314100

Black: PL314200

White: PL312100

Black: PL312200



THERMOSTATS

With or without graphical interface.
They include temperature and
humidity sensors.

Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

Design tool:



Basic

Front glass fixed, white or black.

Design

Front glass fixed, print customizable.

Capriccio

Front glass interchangeable,
print customizable.

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.

White: SR591110 / SR591310

Black: SR591120 / SR591320

White: SR592110 / SR592310

Black: SR592120 / SR592320

White: SR593110 / SR593310

Black: SR593120 / SR593320

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.

White: SR591210

Black: SR591220

White: SR592210

Black: SR592220

White: SR593210

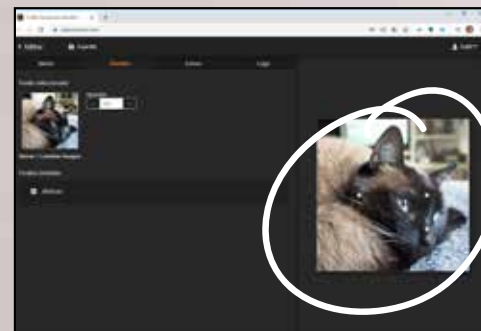
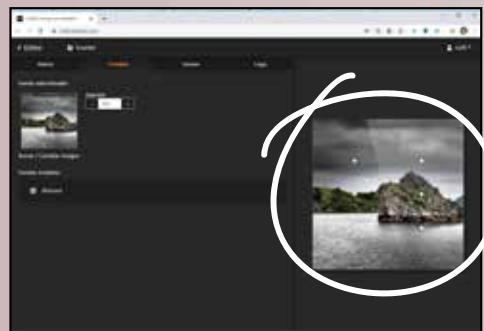
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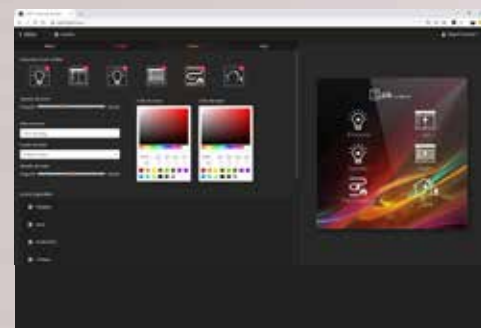
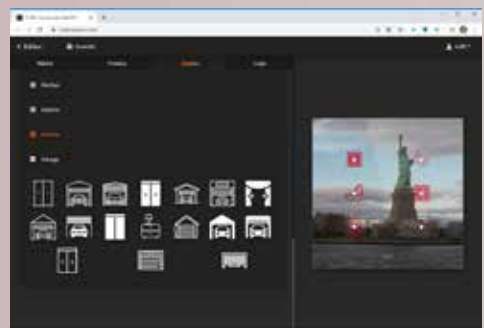
And for a hotel room?

Discover our CUBIK series
for hotels on page 57.

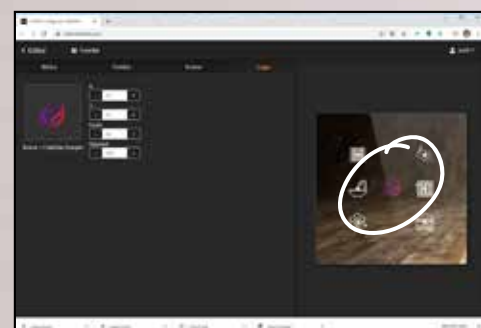
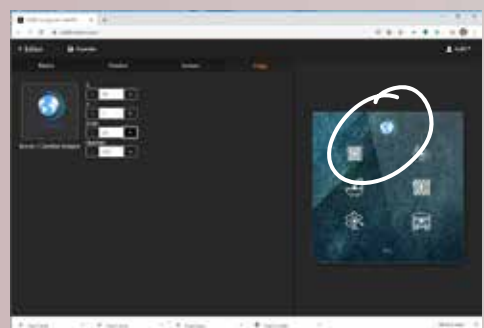




→ Choose your background images



→ Select and edit your icons



→ Add your logo

...and much more



Design tool:



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

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



VISUALIZATION*



VIIP - SIP
SmartTouch-K PLUS
SmartTouch-K BASIC

PPKL4
PPKL7
PPKL10
ETHBUS-K
TRMD-K



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".

Possibility of call forwarding to mobile.

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

It allows programming scenes and annual timed events, alarm emails sending, push notifications, etc.

Supports arithmetic and logic unit and scripting. Supports for technical alarms.

Compatible with Google Home and Alexa.

7,1" Version

White: DS171100

Black: DS171200

10,1" Version

White: DS111100

Black: DS111200





SmartTouch-K PLUS



- 4.3" multifunction button panel for controlling and monitoring a KNX installation.
- Web server for remote control from Ingenium free apps (iOS or Android).
- 32 control icons distributed in 4 pages.
- Logical unit and scripts included.
- Fully customizable appearance by software.
- In-built temperature sensor with thermostat.
- Technical alarms support.

White: DS343100
Black: DS343200

White mounting box: DS940100
Black mounting box: DS940200



SmartTouch-K BASIC



- 4.3" multifunction button panel for controlling and monitoring a KNX installation.
- Local control from Ingenium free apps (iOS or Android).
- 32 control icons distributed in 4 pages.
- Logical unit and scripts included.
- Fully customizable appearance by software.
- In-built temperature sensor with thermostat.

White: DS342100
Black: DS342200

White mounting box: DS940100
Black mounting box: DS940200



PPKL



- 4.3", 7,1" or 10,4" color capacitive touch screen for controlling and monitoring the devices of a KNX installation.
- Web server for remote control from Ingenium free apps (iOS, or Android).
- User can program scenes and annual schedules, email sending with alarm messages, display of IP cameras, etc.
- Schedules can be programmed taking an astronomical clock as a reference.
- Logical unit included.
- Wifi connection and free updating from Internet.

4,3" Version

- White: DS241100
- Black: DS241200

- White mounting box: DS940100
- Black mounting box: DS940200

7,1" Version

- White: DS271100
- Black: DS271200

- White mounting box: DS970100
- Black mounting box: DS970200

10,4" Version

- White: DS211100
- Black: DS211200



ETHBUS-K



- Web server for remote control from Ingenium free apps (iOS or Android) and from a web browser.
- User can program scenes and annual schedules, email sending with alarm messages, display of IP cameras, etc.
- Schedules can be programmed taking an astronomical clock as a reference.
- Logical unit included.
- Ethernet and Wifi connection, and free updating from Internet.

DS202000



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

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.



7SZ-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.

DM470322

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.
Requires 12 Vdc supply.
Requires a digital input connection (e.g. CT454020).

CLIMA*



LGAC-K
DKAC-K
MBAC-K

MDAC-K
PNAC-K
IRKNX
IRKNX-BI



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



DKAC-K



- 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.

GW630100



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



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 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





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



VDS VIDEO INTERCOM



KNX-Fermax



Bi-directional communication gateway between KNX protocol and Fermax Smile Dominion video intercom.

Allows to control and manage KNX devices from the Smile Dominion VDS video intercom, using a project uploaded from the SIDEKNX software.

No programming required.

Direct connection to the Fermax Smile Dominion video entry system and the KNX bus.

GW620000



ENERGY EFFICIENCY

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* ACCESSORIES



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



ingenium*

Bes

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January 2020

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