

# 2018 price list

# index



Сенс	сорные панел	и и термоста	ты					pags. 6 & 7
	[1] basic ———			[2] design -		[3] capriccio		
[PL]	touch-button:	S						
	Oubile COO	white <b>⇒ PL112100</b>	106 00 C	white <b>⇒</b> PL212100		white <b>⇒</b> PL312100		
Ц	Cubik-SQ2 ·····	BLACK <b>⇒</b> PL112200	·· 150,00 €	WHITE ⇒ PL212100  BLACK ⇒ PL212200	226,00 €	BLACK ⇒ PL312200	246,00 €	
	Cubik-SQ4 ·····	white <b>⇒ PL114100</b>	216.00.4	WHITE <b>⇒</b> PL214100	016.00	WHITE ⇒ PL314100	2// 22 2	
Ц	Cubik-5Q4	BLACK <b>⇒</b> PL114200	210,00 <b>C</b>	white ⇒ PL214100 BLACK ⇒ PL214200	246,00 €	BLACK <b>⇒</b> PL314200	266,00 €	
	Cubil, SOS	WHITE <b>⇒ PL116100</b>	224.00.0	white <b>⇒</b> PL216100	264.00.0	white <b>⇒</b> PL316100	207.00.0	
Ц	Cubik-3Q0	BLACK <b>⇒</b> PL116200	234,00 €	BLACK <b>⇒</b> PL216200	264,00 €	BLACK <b>⇒</b> PL316200	286, <b>00 €</b>	
П	Cubik-V6 ·····	white <b>⇒ PL126100</b>	194 00 <b>6</b>	white ⇒ PL226100 BLACK ⇒ PL226200	214.00.0	white <b>⇒</b> PL326100	224.00.0	
Ц	Cubik-VO	BLACK ⇒ PL126200	107,00 €	BLACK ⇒ PL226200	314,00 €	BLACK ⇒ PL326200	334,00 €	
П	Cubil. Vo	WHITE <b>⇒ PL128100</b>	308,00 €	white <b>⇒ PL228100</b>	240.00.6	white <b>⇒</b> PL328100	250.00.6	
Ц	CUDIK-VO	BLACK ⇒ PL128200		BLACK ⇒ PL228200	340,00 €	BLACK ⇒ PL328200	358,00 €	
П	Cubik-VH	WHITE <b>⇒ PL121100</b>	····· Consult ··	white <b>⇒ PL221100</b>	····· Consult			pags.
Ц	CUDIK-VII	BLACK ⇒ PL121200		BLACK ⇒ PL221200				8 & 9
[SR]	sensors							
	Cubik-T ·····	WHITE <b>⇒</b> SR591110	70.00 €	WHITE ⇒ SR592110	96 00 <del>6</del>	white <b>⇒</b> SR593110	98 00 €	
Ц	Cubik-1	BLACK <b>⇒</b> SR591120	10,00€	BLACK ⇒ SR592120	80,00 E	BLACK → SR593120	30,00 €	
	Cubil: TU	WHITE <b>⇒</b> SR591310	97 00 €	WHITE ⇒ SR592310  BLACK ⇒ SR592320	113.00 €	white <b>⇒</b> SR593310	125.00 €	
П	Cubik-In	BLACK ⇒ SR591320	31,00 €	BLACK ⇒ SR592320	115,00 €	BLACK → SR593320	125,00 €	
П	Cubil: TI	white <b>⇒</b> SR591210	155.00 €	WHITE ⇒ SR592210	171 00 €	white <b>⇒</b> SR593210	183.00 €	
Ц	CUDIK-1L	BLACK ⇒ SR591220	100,00 €	BLACK ⇒ SR592220	111,00 €	BLACK → SR593220	100,00 €	
[DS]	displays							
	TRMD-K	white ⇒ DS421100 Black ⇒ DS421200	206,00 €	white <b>⇒</b> DS422100 BLACK <b>⇒</b> DS422200	225,00 €			

		[CT]	Актуаторы	pag. 14
		<b>===</b>	22S-K ······ 840,00 €  MANUAL ⇒ CT432240 ····· 908,00 €	1 -
		<b>#</b>	16S-K ······· param ⇒ CT431620 ····· 720,00 €  manual ⇒ CT431640 ····· 778,00 €	
[GL]	Стекло	pag. <b>=</b>	9S-K — PLUG-IN → CT430900 PARAM → CT430920 490,00 €	pag. 15
	Cristal Cubik Capriccio SQ ⇒ GL310000 ······· $56,00 \in$		MANUAL ⇒ CT430940 ····· 530,00 €  PLUG-IN ⇒ CT416400	
	Cristal Cubik Capriccio V  ⇒ GL320000 ······· 60,00 €		6E4S-16A-K → CT416420 414,00 €  MANUAL → CT416440 ····· 446,00 €	
	00,00 €	<b>B</b>	6E4S-30A-K PLUG-IN ⇒ CT416410  PARAM ⇒ CT416430  544,00 €	pag. 16
[DS]	Дисплеи	Ð	3E2S-K ····· param ⇒ CT423220 ····· 210,00 €	
	SmartTouch-MEK    w → DS341100  B → DS341200  476,00 €	•	2E2S-K ——PARAM → CT422200 190,00 €	
	SmartTouch-K BASIC	pag. • 11	4E4SL-K ······ param ⇒ CT454420 ····· 164,00 €	pag.
	SmartTouch-K PLUS	•	4E-K	17
	PPKL4 — DS241100 980,00 €	pag. [DM]	Диммеры	pag.
	PPKL7		RK1000 → DM470140 258,00 €	18
	PPKL10 WHITE → DS211100 299,00 €	<b>■</b>	RK2000 → DM470180 338,00 € RK3x500 → DM470320 278,00 €	
	4" box	pag. <b>1</b>	RK1102C → DM460200 → 292,00 € RK1103C → DM460300 → 410,00 €	pag. 19
	7" box WHITE → DS970100  7" box BLACK → DS970200  16,00 €		RK0104C ····· → DM460400 ···· 444,00 €	
	ETHBUS-K → DS202000 ··· 818,00 €		RKLED500 ······ → DM490120 ··· 310,00 €  RKLED1000 ····· → DM490140 ··· 358,00 €  RKLED2S400 ···· → DM490220 ··· 336,00 €	pag. 20
٦			RGBL-K → DM480330 218,00 €  RGBWL-K → DM480440 312,00 €	pag. 21



[SR]	sensors		pag. 22		
	movement			решения для отеля	pag.
п	BAMNOR ⇒ SR510000 SIFKNX	0.00.6	-	Room Controller-K ·· → GW669900 ···· 1398,	27
•	NEE GREE → SR510200	0,00 €		1390,0	50 E
ū	SIFLUX → SR530000 = 19(	6,00 €		integration	
	NEEQRØ ⇒ SR530200	5,55 5 1	F	KNX-Fermax ····· <b>⇒</b> GW620000 ···· 560,0	0.6
	SIFKNX-S → SR511000	0,00 €	pag.	300,0	0 €
·	NEE.O.B/G ⇒ SR511200	0,00 €	23	energy efficency	pag.
₽	SIFLUX-S	6,00 €			28
	NEE GRØ ⇒ SR531200	,,,,,,	-	MET-3C → GW650300 → 246,00 MET-40A → GW650040 → 52,00	
-	SRKNX ⇒ SR570000 198	8,00 €	_	MET-60A ······ → GW650060 ···· 56,00	
[GW]	шлюзы clima LGAC-K	,00€	pag. [PS] 24	блоки питания  BFK80 РS110800 170,0  BFK160 PS111600 220,00  BFK320 PS113200 200 00	0 €
[GW]	clima	′ I	pag. [PS] 24	BFK80 → PS110800 → 170,0 BFK160 → PS111600 → 220,00 BFK320 → PS113200 → 290,00	29 00 € 0 €
	clima LGAC-K GW632200 964,	,00 € ,00 €	pag. [PS] 24	BFK80 → PS110800 → 170,0 BFK160 → PS111600 → 220,00 BFK320 → PS113200 → 290,00 BFK640 → PS116400 → 350,00	29 00 € 0 €
	Clima  LGAC-K	,00 € ,00 €	24	BFK80 → PS110800 → 170,0 BFK160 → PS111600 → 220,00 BFK320 → PS113200 → 290,00 BFK640 → PS116400 → 350,00	29 00 € 0 € 0 € asult
	Clima  LGAC-K → GW632200 → 964,  DKAC-I → GW630100 → 376,  IRKNX → GW640000 → 318,  IRKNX-BI → GW640200 → 356,	.00 € .00 € .00 €	24  pag. = 25	BFK80 → PS110800 → 170,0 BFK160 → PS111600 → 220,00 BFK320 → PS113200 → 290,00 BFK640 → PS116400 → 350,00	29 00 € 0 € 0 €
	clima         LGAC-K       → GW632200       964,         DKAC-I       → GW630100       376,         IRKNX       → GW640000       318,         IRKNX-BI       → GW640200       356,         lighting	000€ 000€ 000€ 000€	24  pag. [ING]	BFK80	29 00 € 0 € 0 € sult
	Clima  LGAC-K → GW632200 ···· 964, DKAC-I → GW630100 ··· 376,  IRKNX → GW640000 ··· 318, IRKNX-BI → GW640200 ··· 356,  lighting  DMXBUS-K → GW612110 ··· 470, DALIK → GW611100 ··· 476, DALIK-BRD1 → GW610100 ··· 314,	,00 € ,00 € ,00 € ,00 € ,00 €	24  pag. [ING]  pag. 25	BFK80	29 00 € 0 € 0 € sult pag. 30
	Clima  LGAC-K → GW632200 → 964,  DKAC-I → GW630100 → 376,  IRKNX → GW640000 → 318,  IRKNX-BI → GW640200 → 356,  lighting  DMXBUS-K → GW612110 → 470,  DALIK → GW611100 → 476,	000€ 000€ 000€ 000€ 000€ 000€	24  pag. 25  [ING]  pag. 26	BFK80	29 00 € 0 € 0 € 0 € 0 € 0 € 0 € 0 0 €



...hi-tec home automation with customizable design

The new Cubik series push-buttons have several models with different number of tactile areas. They have a LED indicator associated with each of these areas. There are two sizes depending on the model: square format and vertical rectangular format.

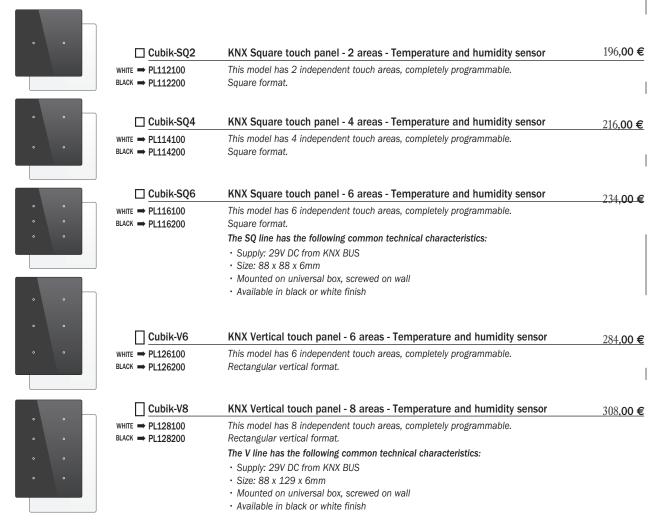
Designed with built-in temperature and humidity sensors to measure and to send the information to the BUS.

Available with the back casing in WHITE or BLACK, within a range of up to 3 levels of customization...

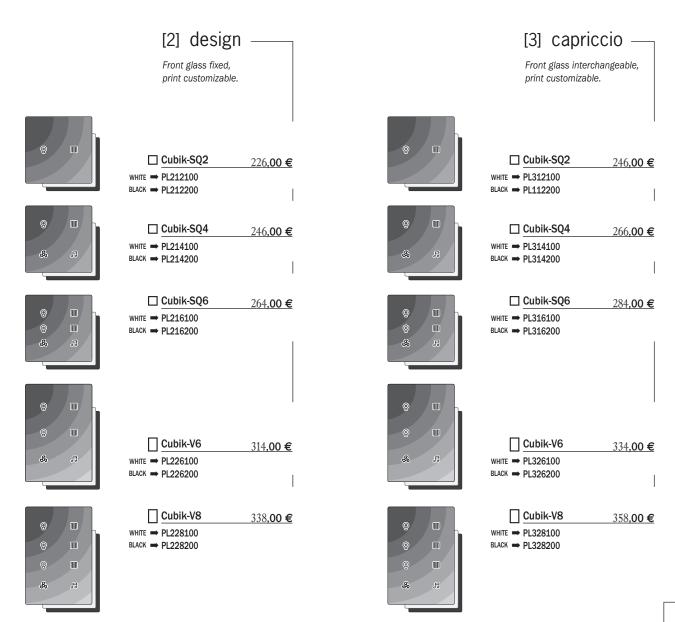
[1] basic

Front glass fixed, white or black.

### [PL] touch-buttons







	Cubik-VH	KNX Vertical touch panel - Hotel door - MUR/DND	Consult
235	WHITE → PL121100 BLACK → PL121200	MUR/DND device for hotel room. It includes two icons to distinguish between "Do not disturb" and "Make up the room" modes. Besides, doorbell button and room number indicator are added.	
		Cubik-V line common technical characteristics in supply, size and installation.	
4		[1] basic	
		 Front glass fixed,	
	[SR]	sensors white or black.	
18	☐ Cubik-T	KNX Square thermostat - Temperature sensor	140,00 €
	WHITE → SR591110  BLACK → SR591120	For temperature control of one independent air conditioning area. On/Off, PWM or continuous temperature controller for main and additional heat/cool system. It includes PI regulator for controlling temperature with higher accuracy for better energy efficiency and comfort. It supports easy logic unit.	
	☐ Cubik-TH	KNX Square thermostat - Temperature and humidity sensor	194,00 €
-	WHITE → SR591310 BLACK → SR591320	Device analogous to the <b>Cubik-T</b> that adds a built-in humidity sensor with dew point measurement according to relative humidity and temperature.	
		Cubik-SQ line common technical characteristics in supply, size and installation.	
	Cubik-TL	KNX Vertical touch panel thermostat - Integrated LED indicator	310.00 €
	WHITE → SR591210 BLACK → SR591220	Device analogous to the <b>Cubik-TH</b> adding LED indicators for control of one independent air conditioning area. It has 8 completely programmable independent touch areas. It supports easy logic unit and timers/counters.	510,000
+ - ⊑ δ		Cubik-V line common technical characteristics in supply, size and installation.	
	[DS]	displays	
	TRMD-K	KNX Vertical touch panel thermostat - 2.8" integrated screen	412 <b>,00 €</b>

Thermostat with 8 touch areas and integrated 2.8" color touch screen to manage an

independent climate zone. It incorporates PI regulator to control the temperature with greater precision, improving comfort and energy saving. On/Off, PWM or continuous temperature controller for main and additional heat/cool system. Includes speed control, modes, measured temperature, setpoint, etc. Includes built-in temperature sensor with thermostat and supports weekly timings for the thermostat configuration. It has a menu with options for themes of appearance, brightness, language, etc.

Cubik-V line common technical characteristics in supply, size and installation.

WHITE **⇒** DS421100

BLACK → DS421200





Cubik-VH	Consult
 DI 0011100	

WHITE → PL221100
BLACK → PL221200

# [2] design

Front glass fixed, print customizable.



☐ <u>Cubik-T</u> 172,00 €

WHITE → SR592110

BLACK → SR592120



☐ Cubik-TH 226,00 €
WHITE → SR592310

BLACK → SR592320



☐ Cubik-TL 342,00 €

WHITE → SR592210

BLACK → SR592220



**TRMD-K** 340,00 €

WHITE → DS422100 BLACK → DS422200 [3] capriccio

Front glass interchangeable, print customizable.



☐ <u>Cubik-T</u> 196,00 €

WHITE → SR593110 BLACK → SR593120



☐ Cubik-TH 250,00 €

WHITE → SR593310 BLACK → SR593320



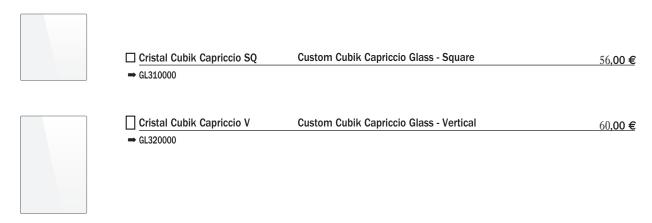
☐ Cubik-TL 366,00 €

WHITE → SR593210 BLACK → SR593220



Additional Capriccio range custom glasses can be purchased separately.

### [GL] glasses



### [DS] displays



WHITE → DS341100

BLACK → DS341200

#### ■ SmartTouch-MEK KNX 4.3" vertical color touch screen

Capacitive touch screen that allows to control the automated installation elements in an intuitive way through icons. It has up to 16 point to point controls and 16 scenes, with icons of control shown directly on screen.

476,00 €

availability

Consult

- · Supply: 18-30V DC
- · Consumption: 350mA@24V DC from auxiliary / 1mA from KNX BUS
- Size: 88 x 129 x 4mm (13mm depth)
- · Mounted on universal box, screwed on wall, flush mount
- · Available in black or white finish





### ■ SmartTouch-K BASIC KNX 4.3" vertical color touch screen, fully customizable, integrated Wi-Fi

668,00 €

WHITE → DS342100 BLACK → DS342200

Vertical capacitive touch screen to control and monitor all installation devices by icons on customizable images. The background design, the controls, the icons and the text will be completely editable and can set up different themes which can be programmed to change automatically when you want. In this way the panel can be fully customized according to the place where it will be installed.

The panel has been designed to show all controls on a single page including 8 controls. However, if necessary it may include up to 32 controls, divided into 4 pages (8 controls per page) whose navigation is done by a simple lateral displacement. It also includes a specific interface for climate control with an internal thermostat.

The ability of the panel to generate a wifi network to allow it to be controlled locally from any iOS or Android device, simply by downloading the official Ingenium applications. Other interesting features of the new vertical panel is gestural "shortcuts" that allow you to perform default actions with a simple movement while the screen remains in stand-by mode, multilanguage support and security issues such as blocking by numerical code or to restricting the access to the settings menu.

- · Resolution: 800x480 pixels
- · Color: 18-bit
- · Supply: 18-30V DC
- · Consumption: 350mA@24V DC from auxiliary / 1mA from KNX BUS
- · Programming: FTP Upload
- Size: 88 x 129 x 4 mm (13mm depth)
- · Mounted on universal box, screwed on wall, flush mount
- · Available in black or white finish



### ■ SmartTouch-K PLUS KNX 4.3" vertical color touch screen with Internet conectivity

798.00 €

WHITE → DS343100

BLACK → DS343200

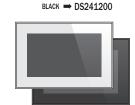
This interface has the same features as the basic model, expanding the capacity of local connectivity to remote, allowing control of the installation using cloud service. It also has a higher quality display with more contrast and viewing angle.

The PPKL series are capacitive touch screens to control and monitor all installation devices by icons on color 3D drawings or photographs (maximum 16 images). Their interface allows the users editing their own scenes as well as programming intuitively annual timings.

They include Wi-Fi, configurable within the own local network, and it incorporates the benefits of our device ETHBUS-K, allowing the installation to connect wirelessly either through PC or through mobile devices locally or remotely.

As new feature, they send Push notifications to Ingenium iOS and Android Apps or by email. Also, the included Wi-Fi allows the device updating via internet to the latest version of available software.

They also include the possibility of IP cameras visualization, to arm/disarm alarm, the presence simulation, interface to check the weather forecast, a graphical whiteboard notes, etc.



■ PPKL4

WHITE → DS241100

### KNX 4.3" Color Touch screen

PPKL series interface with the most compact size.

- · Resolution: 800x480 pixels
- · Color: 18-bit
- · Supply: 18-30V DC from auxiliary power supply
- · Consumption:
  - · 350mA@24V DC from aux. output
  - · 1mA from KNX BUS
- Size: 129 x 88 x 4mm (13mm depth)
- · Mounted on universal box, screwed on wall, flushed
- · Available in black or white finish



WHITE → DS271100

BLACK ⇒ DS271200



#### KNX 7.1" Color Touch screen

1700,00 €

2992.00 €

980.00 €

PPKL series interface with medium screen size.

- · Resolution: 800x480 pixels
- · Color: 18-bit
- · Supply: 18-30V DC from auxiliary power supply
- · Consumption:
- · 450mA@24V DC from aux. output
- · 1mA from KNX BUS
- Size: 207 x 140 x 4mm (13mm depth)
- · Mounted on universal box, screwed on wall, flushed
- · Available in black or white finish



PPKL10

BLACK → DS211200

WHITE → DS211100



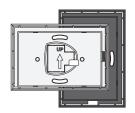
### 10.4" Color Touch screen

Interface with all the features of the PPKL range, featuring its biggest screen size.

- · Resolution: 640x480 pixels
- · Color: 18-bit
- · Supply: 18-30V DC from auxiliary power supply
- · Consumption:
- 900mA@24V DC from aux, output
- · 1mA from KNX BUS
- Size: 307 x 224 x 4mm (24mm depth)
- · Mounted on universal box, screwed on wall
- · Available in black or white finish



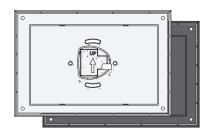
14,00 €



☐ 4" box Box for flush mounting - 4.3" screens

Allows wall embedded pre-installation labor of PPKL4 and SmartTouch-K screens.

• Size: 129 x 88 x 4mm (13mm depth)



7" box Box for flush mounting - 7.1" screens 16,00 €

WHITE → DS970100

WHITE → DS940100

BLACK → DS940200

BLACK → DS970200

Allows wall embedded pre-installation labor of PPKL7 touch screens.

• Size: 207 x 140 x 4mm (13mm depth)



ETHBUS-K

### Web server for remote control of KNX installations

818,00 €

→ DS202000

Device to control a KNX installation from any iOS, Android or Samsung Smart TV device or using a PC connected to the internet.

Wi-Fi and Ethernet connectivity. It supports up to 100 control planes and up to 100 scenes. It has free updating via internet to the latest version of available software.

- · Supply: 230V AC
- · Max. Power Consumption: 2.6VA @ 230V AC
- KNX supply: 29V DC from KNX BUS
- · Consumption: 1mA from KNX BUS
- · DIN rail mounted (6 modules)

### ICTI actuators



### 22S-K

### KNX actuator with 22 digital outputs

840.00 €

→ CT432220 · PARAM

On/Off actuator with 22 outputs, free voltage relays 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 (ALU).

- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- · Switching capacity: 16A @ 230V AC per output
- DIN rail mounted (12 modules)

and on/off of the outputs.

Avaliable in two versions depending on programming mode:

- 1. PARAM: Programming by ETS parameter application.
- 2. MANUAL: Manual control system for relay outputs.





### KNX actuator with 22 digital outputs - Manual

908.00 €

→ CT432240 · MANUAL This version has manual control for the activation/deactivation of the outputs from the device itself, and LED indicators for the selection and status of them. For this, there are capacitive pushbuttons on the cover and LED indicators for the selection

000000 000000 000000 Bes'

00000 00000 00000

### **■ 16S-K**

### KNX actuator with 16 digital outputs

720.00 €

→ CT431620 · PARAM

On/Off actuator with 16 outputs, free voltage relays 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 (ALU).

- Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- Switching capacity: 16A @ 230V AC per output
- · DIN rail mounted (9 modules)

Avaliable in two versions depending on programming mode:

- 1. PARAM: Programming by ETS parameter application.
- 2. MANUAL: Manual control system for relay outputs.



00000 000000 000000

### **■ 16S-K**

### KNX actuator with 16 digital outputs - Manual

778.00 €

**→** CT431640 · MANUAL

This version has manual control for the activation/deactivation of the outputs from the device itself, and LED indicators for the selection and status of them. For this, there are capacitive pushbuttons on the cover and LED indicators for the selection and on/off of the outputs.







### KNX actuator with 9 digital outputs

490.00 €

- → CT430900 · PLUG-IN
- → CT430920 · PARAM

On/Off actuator with 9 outputs, free voltage relays with a cutting power of 16A@230V each one. Multifunction programming. Outputs of this device work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc). Arithmetic-Logic Unit (ALU).

- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- · Switching capacity: 16A @ 230V AC per output
- DIN rail mounted (6 modules)

- Avaliable in three versions depending on programming mode:
- 1. PLUG-IN: Includes advanced programming mode through scripts.
- 2. PARAM: Programming by ETS parameter application.
- 3. MANUAL: Manual control system for relay outputs.





### KNX actuator with 9 digital outputs - Manual

530.00 €

→ CT430940 · MANUAL This version has manual control for the activation/deactivation of the outputs from the device itself, and LED indicators for the selection and status of them. For this, there are capacitive pushbuttons on the cover and LED indicators for the selection and on/off of the outputs.



#### **■** 6E4S-16A-K

#### KNX actuator with 6 digital inputs and 4 digital outputs (16A)

414,00€

446.00 €

- → CT416400 · PLUG-IN
- → CT416420 · PARAM

On/Off actuator with 4 digital outputs, free voltage relays. Multifunction programming. Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc). This device has 6 low-voltage digital inputs for connecting conventional pushbuttons or switches. Arithmetic-Logic Unit (ALU).

- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- · Switching capacity: 16A @ 230V AC per output
- DIN rail mounted (4 modules)

- Avaliable in three versions depending on programming mode:
- 1. PLUG-IN: Includes advanced programming mode through scripts.
- 2. PARAM: Programming by ETS parameter application.
- 3. MANUAL: Manual control system for relay outputs.



⇒ CT416440 · MANUAL

#### ■ 6E4S-16A-K KNX actuator with 6 digital inputs and 4 digital outputs (16A) - Manual

This version has manual control for the activation/deactivation of the outputs from the device itself, and LED indicators for the selection and status of them. For this, there are capacitive pushbuttons on the cover and LED indicators for the selection

and on/off of the outputs.



### ■ 6E4S-30A-K

### KNX actuator with 6 digital inputs and 4 digital outputs (30A)

544.00 €

- **→ CT416410** · PLUG-IN
- **→** CT416430 · PARAM
- On/Off actuator with 4 digitanl outputs, free voltage relays. Multifunction programming. Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc). This device has 6 low-voltage digital inputs for connecting conventional pushbuttons or switches. Arithmetic-Logic Unit (ALU).
- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- · Switching capacity: 30A @ 230V AC per output
- DIN rail mounted (4 modules)

Avaliable in two versions depending on programming mode:

- 1. PLUG-IN: Includes advanced programming mode through scripts.
- 2. PARAM: Programming by ETS parameter application.



### 

### KNX actuator with 3 digital inputs and 2 digital outputs

210,00 €

**→ CT423200** · PARAM

On/Off actuator with 2 digital outputs, free voltage relays. Multifunction programming. Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc). This device has 3 low-voltage digital inputs for connecting conventional pushbuttons or switches. Arithmetic-Logic Unit (ALU).

PARAM: Programming by ETS parameter application.

- · Supply: 29V DC from KNX BUS
- Consumption: 9mA from KNX BUS
- · Switching capacity: 16A @ 230V AC per output
- · Size: 48 x 48 x 25mm
- · Mounted on distribution box



#### ■ 2E2S-K

### KNX actuator with 2 digital inputs and 2 digital outputs

190.00 €

- → CT422200 · PLUG-IN
- **→** CT422220 · PARAM
- ARAM

On/Off actuator with 2 digital outputs, free voltage relays. Multifunction programming. Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc). This device has 2 low-voltage digital inputs for connecting conventional pushbuttons or switches. Arithmetic-Logic Unit (ALU).

- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- Switching capacity: 16A @ 230V AC per output
- · Size: 48 x 48 x 25mm
- · Mounted on distribution box

#### Avaliable in two versions depending on programming mode:

- 1. PLUG-IN: Includes advanced programming mode through scripts.
- 2. PARAM: Programming by ETS parameter application.





#### **● 4E4SL-K**

### Adaptor for mechanical controls to KNX with 4 and 4 digital outputs (SELV)

164.00 €

→ CT454420 · PARAM

4 extra-low voltage (SELV) digital inputs module for connecting conventional pushbuttons or switches. This device has programmable inputs for working simultaneously or independently in different modes (binary inputs, blinds, dimmers, etc). 4 outputs for the control of signalling LEDs. Arithmetic-Logic Unit (AUL). Programming by ETS parameter application.

- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- Inputs: 4 extra-low voltage (SELV)
- Outputs: 4 extra-low voltage (SELV)
- · Maximum cabled distance: 30 meters
- Size: 45 x 45 x 10mm
- · Mounting: Built-in on universal distribution box



### ⊕ 4E-K

### Adaptor for mechanical controls to KNX with 4 digital low voltage inputs

154.00 €

- → CT454000 · PLUG-IN
- → CT454020 · PARAM
- 4 low-voltage (SELV) digital inputs module for connecting conventional pushbuttons o switches. This device has programmable inputs for working simultaneously or independently in different modes (binary inputs, blinds, dimmers, etc). Arithmetic-Logic Unit (AUL).
- · Supply: 29V DC from KNX BUS
- · Consumption: 9mA from KNX BUS
- Inputs: 4 low voltage inputs (SELV)
- · Maximum cabled distance: 30 meters
- Size: 45 x 45 x 10mm
- · Mounting: Built-in on universal distribution box

Avaliable in two versions depending on programming mode:

- 1. PLUG-IN: Includes advanced programming mode through scripts.
- 2. PARAM: Programming by ETS parameter application.

### [DM] dimmers



### **■** RK1000 1x1000W-channel proportional actuator, triac dimmer with KNX control

268,00 €

→ DM470140

Proportional actuator to regulate 1 channel of 1000W maximum power output. Suitable for incandescent or halogen lighting (with or without transformer). One input for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- Voltage Supply: 230V AC
- · Max. Power consumption: 0.5W @ 230V AC
- · KNX Supply: 29V DC from KNX BUS
- · Current Consumption: 5mA from KNX BUS
- · DIN rail mounted (4 modules)



#### **■** RK2000

### 1x2000W-channel proportional actuator, triac dimmer with KNX control

338.00 €

→ DM470180

Proportional actuator to regulate 1 channel of 2000W maximum power output. Suitable for incandescent or halogen lighting (with or without transformer). One input for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- · Voltage Supply: 230V AC
- Max. Power consumption: 0.5W @ 230V AC
- · KNX Supply: 29V DC from KNX BUS
- · Current Consumption: 5mA from KNX BUS
- DIN rail mounted (4 modules)



### **■** RK3x500

### 3x500W-channel proportional actuator, triac dimmer with KNX control

278,00 €

→ DM470320

Proportional actuator to regulate 3 channels of 500W maximum power output each. Suitable for incandescent or halogen lighting (with or without transformer). 3 inputs for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- · Voltage Supply: 230V AC
- · Max. Power consumption: 0.5W @ 230V AC
- · KNX Supply: 29V DC from KNX BUS
- Current Consumption: 10mA from KNX BUS
- DIN rail mounted (4 modules)





■ RK1102C	2-channel dimmer for electronic ballasts (1-10V) with KNX control	292,00 €
→ DM460200	Illumination controller for KNX BUS for fluorescence adjustable by signal 1-10V. Maximum current of 10A in the ON/OFF relay and 35mA in the output 1-10V.	
	· Supply: 230V AC	

· Size: 77 x 35 x 17mm



<b>■</b> RK1103C	3-channel dimmer for electronic ballasts (1-10V) with KNX control	410,00 €
→ DM460300	Illumination controller for KNX BUS for fluorescence adjustable by signal 1-10V.  Maximum current of 10A in the ON/OFF relay and 35mA in the output 1-10V.	
	Supply: 29V DC from KNX BUS     DIN rail mounted (4 modules)	



**■** RK0104C

→ DM460400

4-channel dimmer, triac output (0-10V) with KNX control

Controller for KNX BUS control by 0-10 V signal with triac output that allows lighting control, as well as electrovalves and other elements controlled by 0-10 V signal.

Supply: 230V AC

DIN rail mounted (4 modules)





### RKLED500 Dimmer for LED lighting with KNX control - 500W

310,00 €

→ DM490120

Proportional actuator to regulate 1 channel with a maximum of 500W. Suitable for LED lighting. Input for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- Supply: 29V DC from KNX BUS
- · Current Consumption: 5mA from KNX BUS
- Maximum load supported: 500W
- · Minimum load required: 7W
- · DIN rail mounted (4 modules)





### Dimmer for LED lighting with KNX control - 1000W

358,00 €

→ DM490140

Proportional actuator to regulate 1 channel with a maximum of 1000W. Suitable for LED lighting. Input for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- · Supply: 29V DC from KNX BUS
- · Current Consumption: 5mA from KNX BUS
- Maximum load supported: 1000W
- · Minimum load required: 7W
- · DIN rail mounted (4 modules)



### **■** RKLED2S400

### Dimmer for LED lighting with KNX control - 2x400W

336,00 €

→ DM490220

Proportional actuator to regulate 2 channels with a maximum of 400W each. Suitable for LED lighting. 2 Input for conventional pushbutton control. Easy and functional configuration: ramps, staircase timers, scenes, etc.

- · Supply: 29V DC from KNX BUS
- · Current Consumption: 5mA from KNX BUS
- · Maximum load supported: 400W per channel
- · Minimum load required: 7W per channel
- DIN rail mounted (4 modules)





### ■ RGBL-K 3-channel dimmer to regulate RGB LED modules with KNX control

218,00 €

→ DM480330

Proportional actuator to regulate RGB LED modules, including the possibility to control each channel individually. Color scenes and sequences programming. Maximum operating output current: 3A per channel. PWM dimming method.

- · Input voltage: 10-24V DC from LED transformer supply
- Output power: 3x30W (10V DC) / 3x78W (24V DC)
- · Supply: 29V DC from KNX BUS
- Consumption: 5mA from KNX BUS
- · Size: 77 x 35 x 17mm
- · Mounting: Luminaire or ceiling integration



### RGBWL-K

### 4-channel dimmer to regulate RGB+White LED modules with KNX control

312,00 €

→ DM480440

Proportional actuator to regulate RGB LED modules with additional white color, including the possibility to control each channel individually. Color scenes and sequences programming. Max. operating output current: 3A per channel. PWM dimming method.

- Input voltage: 10–24V DC from LED transformer supply
- Output power: 4x30W (10V DC) / 4x78W (24V DC)
- · Supply: 29V DC from KNX BUS
- · Consumption: 5mA from KNX BUS
- Size: 77 x 35 x 17mm
- · Mounting: Luminaire or ceiling integration

### [SR] sensors

### movement



**₽ SIFKNX** 

### KNX infrared movement detector - Light regulation -

150,00 €

WHITE → SR510000 BLACK → SR510200

Infrared movement 360° detector within an area of 5m diameter at 2.5m height. It has 2 detection channels. Possibility to adjust the light working-time as well as the threshold light level. Wide and easy parameterization, being suitable for lighting functions, as well as people detection and intruder control. It also includes an additional channel that can work in dependence of daylight or permanently.

- · Supply: 29V DC from KNX BUS
- · Consumption: 4mA from KNX BUS
- · Size: Ø36 (visible) x Ø25 (built-in) x 50mm
- · Built in mounted on ceiling





### **₽** SIFLUX

### KNX infrared movement detector - Constant regulation

196,00€

WHITE → SR530000 Infrared movement 360° detector within an area of 5m diameter at 2.5m height. It BLACK → SR530200 has 2 detection channels. In combination with a dimmer it can maintain a constant brightness in a room. It is possible to adjust the presence sensor sensitivity in an easy way. This device also includes an additional thermostat to measure temperature where

it is installed.

- · Supply: 29V DC from KNX BUS
- · Consumption: 4mA from KNX BUS
- · Size: Ø36 (visible) x Ø25 (built-in) x 50mm
- · Built in mounted on ceiling





### 

#### KNX infrared movement detector - Light regulation - Surface install.

150.00 € Consult

availability

WHITE ⇒ SR511000 BLACK - SR511200

Infrared movement 360° detector within an area of 5m diameter at 2.5m height. It has 2 detection channels. Possibility to adjust the light working-time as well as the threshold light level. Wide and easy parameterization, being suitable for lighting functions, as well as people detection and intruder control. It also includes an additional channel that can work in dependence of daylight or permanently.

- Supply: 29V DC from KNX BUS
- · Consumption: 4mA from KNX BUS
- Size: Ø44 x 30mm
- · Mounting: Screwed on ceiling or indoor wall



### **▽** SIFLUX-S

### KNX infrared movement detector - Constant regulation - Surface install.

196.00 €

WHITE → SR531000

BLACK - SR531200

Infrared movement 360° detector within an area of 5m diameter at 2.5m height. It has 2 detection channels. In combination with a dimmer it can maintain a constant brightness in a room. It is possible to adjust the presence sensor sensitivity in an easy way. This device also includes an additional thermostat to measure temperature where it is installed.

Consult availability

- · Supply: 29V DC from KNX BUS
- · Consumption: 4mA from KNX BUS
- Size: Ø44 x 30mm
- · Mounting: Screwed on ceiling or indoor wall



### SRKNX

### KNX radiofrequency movement detector - Hidden install.

198.00 €

→ SR570000

Movement sensor with hidden installation that detects movements through walls and ceilings of any non metallic material. It has 2 detection channels. This device is suitable for lighting, motion detection, intrusion control, etc. Detection maximum area of 12x6m, to 2.5m height.

- · Supply: 29V DC from auxiliary power supply or from KNX BUS
- · Consumption (depends on source):
  - · Auxiliary Power Supply 12-30V DC (Recommended): 35mA from auxiliary power supply + 1mA from KNX BUS
  - · KNX BUS (Optional): 35mA from KNX BUS
- · Size: 65 x 25 x 45mm
- · Mounted hidden at register box, sealed box, or false ceiling

# [GW] gateways

## clima



■ LGAC-K	KNX – LG HVAC air conditioning gateway	964,00€
→ GW632200	Gateway for integration of LG air conditioning system with KNX control system.  Connection to external LG units bus RS485. Control up to 64 LG indoor units.	
	<ul><li>Supply: 230V AC</li><li>Max. Power Consumption: 2.6VA @ 230V AC</li></ul>	
	<ul> <li>KNX supply: 29V DC from KNX BUS</li> </ul>	
	Consumption: 1mA from KNX BUS	
	<ul> <li>DIN rail mounted (6 modules)</li> </ul>	



DKAC-I	KNX – DAIKIN® air conditioning gateway	376,00 €
→ GW630100	Gateway between KNX protocol and DAIKIN® air conditioning system. It allows the integration of an indoor DAIKIN® climate unit with five operating modes (auto, heat, cold, ventilation and dehumidification) and three ventilation speeds (low, medium, high). It includes energy saving mode and arithmetic/logic unit and timers/counters.	Consult availability
	<ul> <li>Supply: 29V DC from KNX BUS</li> <li>Consumption: 100mA from KNX BUS</li> <li>DIN rail mounted (2 modules)</li> </ul>	





### **■** IRKNX KNX infrared transmitter with learning capability

318,00 €

→ GW640000

Allows management in a KNX installation of any air conditioning system that has infrared control, substituting its own remote control.

- · Supply: 29V DC from KNX BUS
- · Consumption: 5mA from KNX BUS
- Size: 75 x 30 x 12mm
- · Mounting: hidden next to AC device or ceiling integration



### **■**≥ IRKNX-BI

### KNX bidirectional infrared transmitter with learning capability

356,00 €

→ GW640200

Allows bidirectional emission and recepción of infrared codes for control of either IR devices from KNX and KNX elements from infrared devices. It allows to control several IR devices from the same device allowing to storage up to 255 codes.

Consult availability

- Supply: 29V DC from KNX BUS
- · Consumption: 5mA from KNX BUS
- Size: 75 x 30 x 12mm
- · Mounting: hidden next to AC device or ceiling integration

### lighting



### **■** DMXBUS-K

### KNX - DMX 512 gateway

470,00 €

→ GW612110

Bidirectional communication gateway between KNX protocol and DMX 512 protocol completely configurable by ETS. Controls up to 48 DMX channels simultaneously and can execute up to 8 scenes and 8 fully customizable sequences.

- · Supply: 230V AC
- · Max. Power Consumption: 2.6VA @ 230V AC
- · KNX supply: 29V DC from KNX BUS
- · Consumption: 1mA from KNX BUS
- · DIN rail mounted (4 modules)

6000000000
NgL iš
- CW611100
pes i
F".
,
0000000000

### ■ DALIK KNX - DALI gateway with unique physical address

476.00 €

→ GW611100

Gateway for controlling DALI protocol lighting through KNX. It allows to control and address up to 64 lights and 16 groups, including an integrated power supply for them.

- · Supply: 230V AC
- · Max. Power Consumption: 3.2VA @ 230V AC
- · KNX supply: 29V DC from BUS KNX
- · Consumption: 5mA
- DIN rail mounted (4 modules)



#### DALIK-BRD1

### KNX - DALI gateway with broadcast control for 1 channel and up to 64 ballasts

314,00 €

→ GW610100

Gateway for controlling DALI protocol lighting through KNX. It allows to control one channel and up to 64 ballasts by broadcast orders. Ability to configure up to 16 scenes. 1 input available for conventional pushbutton control. Possibility of use it as an autonomous device.

- · Supply: 230V AC
- · Max. Power Consumption: 3.2VA @ 230V AC
- · KNX supply: 29V DC from BUS KNX
- · Consumption: 5mA
- DIN rail mounted (4 modules)



#### ■ DALIK-BRD2

### KNX – DALI gateway with broadcast control for 2 channels and up to 64 ballasts

336,00 €

→ GW610200

Gateway for controlling DALI protocol lighting through KNX. It allows to control 2 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 16 scenes. 2 inputs available for conventional pushbutton control. Possibility of use it as an autonomous device.

- · Supply: 230V AC
- · Max. Power Consumption: 3.2VA @ 230V AC
- KNX supply: 29V DC from BUS KNX
- · Consumption: 5mA
- DIN rail mounted (4 modules)



#### ■ DALIK-BRD3

#### KNX – DALI gateway with broadcast control for 3 channels and up to 64 ballasts

358.00 €

→ GW610300

Gateway for controlling DALI protocol lighting through KNX. 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 16 scenes. 3 inputs available for conventional pushbutton control. Possibility of use it as an autonomous device.

- Supply: 230V AC
- · Max. Power Consumption: 3.2VA @ 230V AC
- · KNX supply: 29V DC from BUS KNX
- · Consumption: 5mA
- DIN rail mounted (4 modules)



### hotel





1398,**00 €**Consult

availability

→ GW669900

Complete solution to control a hotel room.It has outputs to control from lighting dimming, on/off LED and/or conventional lighting, fan coil, electrovalves and a total on/off of the room. It also has inputs for the control and management of all outputs, as well as inputs for card reader, technical alarms sensors and magnetic door and window detectors. Integrable device with Cubik SQ and V devices, with the Cubik-VH room door and any KNX device.

- · Supply: 230V AC
- · DIN rail mounted (12 modules)

### integration



### ■ KNX-Fermax

### KNX - Fermax Smile Dominium gateway

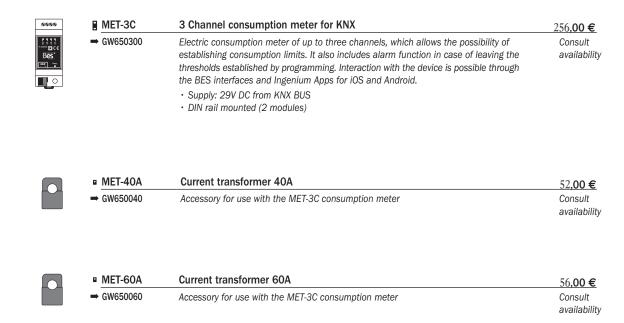
560.00 €

→ GW620000

Bi-directional gateway between KNX protocol and Fermax Smile Dominium video door entry system. It allows control of KNX devices from the video door system. No programming required. Direct connection to the video door system and the KNX bus.

- · Supply: 230V AC
- · Max. Power Consumption: 2.6VA @ 230V AC
- · KNX supply: 29V DC from KNX BUS
- · Consumption: 1mA from KNX BUS
- DIN rail mounted (4 modules)

### energy efficiency





# [PS] power supply

SISIS	BFK80	KNX 80mA power supply - 29V DC auxiliary output	170 <b>,00 €</b>
e not consider the consideration t	→ PS110800	<ul> <li>Supply: 230V AC</li> <li>Current: KNX BUS + AUX &lt; 80mA</li> <li>Output voltage: 29V DC</li> <li>DIN rail mounted (2 modules)</li> </ul>	
	<b>■</b> BFK160	KNX 160mA power supply - 29V DC auxiliary output	220 <b>,00 €</b>
Bes	→ PS111600	<ul> <li>Supply: 230V AC</li> <li>Current: KNX BUS + AUX &lt; 160mA</li> <li>Output voltage: 29V DC</li> <li>DIN rail mounted (2 modules)</li> </ul>	
0000000	<b>■</b> BFK320	KNX 320mA power supply - 29V DC auxiliary output	290,00 €
Bes (	⇒ PS113200	<ul> <li>Supply: 230V AC</li> <li>Current: KNX BUS + AUX &lt; 320mA</li> <li>Output voltage: 29V DC</li> <li>DIN rail mounted (4 modules)</li> </ul>	
0000000	<b>■</b> BFK640	KNX 640mA power supply - 29V DC auxiliary output	350,00 €
Bes cooccooccooccooccooccooccooccooccoocco	⇒ PS116400	<ul> <li>Supply: 230V AC</li> <li>Current: KNX BUS + AUX &lt; 640mA</li> <li>Output voltage: 29V DC</li> <li>DIN rail mounted (4 modules)</li> </ul>	
90000099	■ BFK640-BU	KNX 640mA backup power supply - 29V DC auxiliary output	Consult
Bes* "	→ PS116410	Power supply with possibility of battery connection to keep the KNX installation active in case of power failure.  • Supply: 230V AC / AUX: 12V DC (Battery)  • Current: KNX BUS + AUX < 640mA  • Output voltage: 29V DC  • DIN rail mounted (6 modules)	ſ

### [ING] accessories



### ING-DH Smoke optical detector

100.00 €

Optical smoke sensor for fire detection in areas where smoke is not usual. Suitable for connection to KNX actuators.

Consult availability

- Supply: 12V DCConsumption: 40mA
- Size: 60 x 85 x 58mm
- · Surface mounted, screwed on ceiling



#### ING-DTV Fire thermovelocimetric detector

72,00 €

Thermovelocimetric fire detector for areas where smoke is usual (detects sudden temperature increases). Suitable for connection to KNX actuators.

- · Supply: 12V DC (KCTr)
- · Size: Ø74 x 26mm
- · Surface mounted, screwed on ceiling



### **↓** ING-SIF Built-in Infrared movement sensor flush mounted

68,00 €

Infrared movement detector for connection to any inputs KNX device. This device has 360° detection angle with an area of 5m diameter to 2.5m height. Normally open (NO) contact.

- · Supply: 12V DC
- · Consumption: 25mA
- · Size: Ø34 (visible) x Ø23 (built-in) x 52mm
- · Built in mounted on ceiling or internal wall



### □ ING-SIN-3H

### Flooding sensor - 3 wires

32,00 €

Vertical flooding sensor for 3 wire connection to KNX actuators. Possibility of connecting several sensors always in parallel.

- · Supply: 12V DC
- · Consumption: 40mA
- Size: 34 x 70 x 14mm
- · Surface mounted, at ground level

### warranty

Our products are guaranteed for 2 years beginning at the invoice date. They must be correctly stored, installed and maintained, in conformity with the good professional practice, with the ongoing legislation and with the condition that failures are not a consequence of bad use, negligence or external accidents.

In case of valid warranty, INGENIUM INGENIERÍA Y DOMÓTICA SL responsibility is limited to substitute the old product for a new one without cost for the client, being excluded any responsibility of damages and other charges and compensations.

Our general sales conditions prevail over the customers´ purchase general conditions of the customer that INGENIUM INGENIERÍA Y DOMÓTICA SL does not expressly accepted.

The non observance of our delivery times will not involve any penalty or compensation.

Both parts renounce to their own legislation in case of conflict and will be subject to the jurisprudence of the Asturias Tribunals (Spain), for every question related with the contract or sales terms.

INGENIUM INGENIERÍA Y DOMÓTICA SL, reserves itself the right to admit the orders.

All the information contained on this document is valid, except in case of a misprint mistake.

### prices

Our sales prices will be those currently used at the moment of the materials order.

### VAT

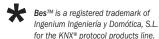
It will be applied according to each country's current legislation.

### return policy

No devolution will be accepted without the written approval by INGENIUM INGENIERÍA Y DOMÓTICA SL, being required to indicate the origin of the invoice and, in any case, never 30 days after the receipt of the goods.

In case of devolution due to a mistake in the order or reasons unrelated to INGENIUM INGENIERÍA Y DOMÓTICA SL, goods will be paid to the same prices to which they were billed before, with a discount of 10% in concept of expenditures.

Goods must be in a good condition, complete packaging and with their catalogue reference that corresponds to the data of the goods devolution. Transportation costs will be responsibility of the buyer.







Parque Tecnológico de Asturias, Parcela 50 33428 Llanera - Asturias - Spain

tel (+7) 968 825 37 77 hello@besknx.ru







Samsung SMART TV



