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BES, Ingenium's KNX commitment

KNX®

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Ingenium HQ in Asturias, Spain.

BES, Ingenium's KNX commitment

In 2018, **Ingenium** celebrates 20 years as a specialist in home automation and automation. Twenty years have served to develop and strengthen its own protocol BUSing in the market, expanding it this year 2018 with the new **Wings** wireless range, which allows to extend any wired BUSing installation. During the last decade, Ingenium has also developed and complemented the **BES KNX** product line that is shown throughout this catalog, based on the KNX standard.

The **BES** product range has been growing significantly during this time, especially over the last 10 years. It started with the hidden presence sensor SRKNX, and has been completed with touch screens, actuators, dimmers, sensors, gateways to other protocols or power supplies, trying to offer professionals the largest portfolio possible to cover all types of home automation installations.

This new 2018 version of the **BES KNX** catalog comes to complete the **Ingenium** KNX proposal even more. The new CUBIK line (capacitive pushbuttons -5 formats and 3 customization levels- and thermostats -3 formats and 3 customization levels-), the new 1-10V and 0-10V dimmers, the new DAIKIN AC gateway, some new solutions for hotel or the manual control incorporated onto the actuators, are some of the most important novelties for this year in the **BES** portfolio.

Absolutely all the products of this catalog are designed, developed, and manufactured at the **Ingenium** headquarters in Asturias, defining one of the hallmarks of the company without a doubt. It is this will to innovate, without neglecting the manufacturing process, which gives us the confidence of our customers and makes every year more users taking interest in **BES**.

Visualization

Integrations

Energy Efficiency

Technical Alarms

Lighting

Supply

Presence

Blinds

Clima

ingenium Bes

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Power Supplies 49

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CUBIK SERIE*

Cubik V8
Cubik V6
Cubik SQ6
Cubik SQ4
Cubik SQ2

Cubik T
Cubik TH
Cubik TL

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.

Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

CUBIK V8

Capacitive push-button with eight 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 six 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 six 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 four 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 two 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.

Basic	White: PL128100	White: PL126100	White: PL116100	White: PL114100	White: PL112100
Front glass fixed, white or black.	Black: PL128200	Black: PL126200	Black: PL116200	Black: PL114200	Black: PL112200
Design	White: PL228100	White: PL226100	White: PL216100	White: PL214100	White: PL212100
Front glass fixed, print customizable.	Black: PL228200	Black: PL226200	Black: PL216200	Black: PL214200	Black: PL212200
Capriccio	White: PL328100	White: PL326100	White: PL316100	White: PL314100	White: PL312100
Front glass interchangeable, print customizable.	Black: PL328200	Black: PL326200	Black: PL316200	Black: PL314200	Black: PL312200

THERMOSTATS

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

Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

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.

Basic	White: SR591110 / SR591310	White: SR591210
Front glass fixed, white or black.	Black: SR591120 / SR591320	Black: SR591220
Design	White: SR592110 / SR592310	White: SR592210
Front glass fixed, print customizable.	Black: SR592120 / SR592320	Black: SR592220
Capriccio	White: SR593110 / SR593310	White: SR593210
Front glass interchangeable, print customizable.	Black: SR593120 / SR593320	Black: SR593220

And for a hotel room?

Discover our CUBIK series for hotels on page 55.

VISUALIZATION*

* SmartTouch-K PLUS
SmartTouch-K BASIC
SmartTouch-MEK
PPKL4
PPKL7
PPKL10
ETHBUS-K
TRMD-K

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

SmartTouch-MEK

4.3” vertical multifunction pushbutton for controlling and monitoring a KNX installation.

It supports 32 controls distributed in 4 pages, as well as scenes.

Predefined appearance themes.

In-built temperature sensor with thermostat.

White: DS341100

Black: DS341200

White mounting box: DS940100

Black mounting box: DS940200

PPKL4

4.3” 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.

White: DS241100

Black: DS241200

White mounting box: DS940100

Black mounting box: DS940200

PPKL7

7.1” 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.

White: DS271100

Black: DS271200

White mounting box: DS970100

Black mounting box: DS970200

PPKL10

Full color capacitive 10.4" touch screen for controlling and monitoring the KNX installation.

It incorporates web server for remote control from the free Ingenium App for iOS or Android.

It allows programming scenes and annual timed events. Also is possible to arm/disarm the intruder alarm or activate/deactivate the presence simulation, IP cameras visualization, alarms emails sending, etc.

Wifi connection and free updates from the internet.

It allows to realize timings taking as reference an astronomical clock.

Supports arithmetic and logic unit and scripting.

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.

Simple logical unit.

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

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.

Programming by ETS parameter application.

Plug-in: CT422200

Parameter: CT422220

3E2S-K

Binary actuator with two digital outputs, free voltage relays with a cutting power of 16A @230V each one.

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

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

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

Parameter: 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.

Programming by ETS parameter application.

Plug-in: CT454000

Parameter: CT454020

4E4SL-K

Binary actuator with four 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.

Parameter: 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.

Programming by ETS parameter application or plug-in according to reference.

16 amps: 6E4S-K-16A

Plug-in: CT416400

Parameter: CT416420

Manual control: CT416440

30 amps: 6E4S-K-30A*

Plug-in: CT416410

Parameter: CT416430

* Both references allow manual control.

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.

Programming by ETS parameter application.

Plug-in: CT430900

Parameter: 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.

Programming by ETS parameter application.

Parameter: 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.

Programming by ETS parameter application.

Parameter: CT432220

Manual control: CT432240

DIMMERS

*

RGBL-K	RK1000
RGBWL-K	RK2000
RKLED500	RK3x500
RKLED1000	RK0104C
RKLED2S400	RK1103C
	RK1102C

LED

RGBL-K

Dimmer for RGB LED modules (12V to 24V).

Possibility of controlling 3 monochromatic channels individually or simultaneously for RGB.

Allows to dim brightness or choose from the whole color range with pushbuttons.

Easy configuration of up to 32 scenes or color sequences.

DM480330

RGBWL-K

Dimmer for RGBW LED modules (12V to 24V).

Possibility of controlling 4 monochromatic channels individually or simultaneously for RGB.

Allows to dim brightness or choose from the whole color range with pushbuttons.

Easy configuration of up to 8 scenes and 8 color sequences.

DM480440

LED

RKLED500

1 channel dimmer.

500W maximum output power.

Suitable for LED lighting.

Input for conventional pushbutton control.

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

DM490120

RKLED1000

1 channel dimmer.

1000W maximum output power.

Suitable for LED lighting.

Input for conventional pushbutton control.

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

DM490140

RKLED2S400

2 channel dimmer.

400W maximum output power.

Suitable for LED lighting.

2 inputs for conventional pushbutton control.

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

DM490220

RK1000

1 channel dimmer.

1000W maximum output power.

Suitable for incandescent or halogen lighting (with or without transformer).

Input for conventional pushbutton control.

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

DM470140

RK2000

1 channel dimmer.

2000W maximum output power.

Suitable for incandescent or halogen lighting (with or without transformer).

Input for conventional pushbutton control.

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

DM470180

RK3X500

3 channel dimmer.

500W maximum output power for each channel.

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.

DM470320

RK0104C

Four channel dimmer.

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

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

DIN rail mounted.

DM460400

RK1103C

Three channel dimmer.

10 A maximum output power per channel

Suitable for 1-10Vdc lighting control

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

DIN rail mounted.

DM460300

RK1102C

Two channel dimmer.

10 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 1-10Vdc.

DM460200

SENSORS*

* SIFKNX
SIFKNX-S

SIFLUX
SIFLUX-S
SRKNX

SIFKNX

Presence infrared detector with brightness sensor.

Built-in and discreet installation with 360º detection.

Two detection channels.

Suitable for lighting control by threshold, motion detection, intrusion control, etc.

- White: SR510000
- Black: SR510200

SIFKNX-S

Presence infrared detector with brightness sensor.

Surface installation with 360º detection.

Two detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

- White: SR511000
- Black: SR511200

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 360º detection.

Two detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

Incorporates temperature sensor for additional measurement.

- White: SR530000
- Black: SR530200

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 360º detection.

Two detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

Incorporates temperature sensor for additional measurement.

- White: SR531000
- Black: SR531200

SRKNX

Presence detector with radio-frequency technology for hidden installation.

360º 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

GATEWAYS*

*

LIGHTING
- DMX-BUS
- DALIK
- DALIK-BRD1
- DALIK-BRD2
- DALIK-BRD3

VIDEO INTERCOM
- KNX-FERMAX

CLIMA
- LGAC-K
- DKAC-I
- IRKNX
- IRKNX-BI

ENERGY EFFICIENCY
- MET-3C
- MET-40A
- MET-60A

lighting

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

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: dimmering, on/off, scenes, failure warnings, etc.

GW611100

lighting

DALIK-BRD1

Gateway between KNX and DALI protocols, with DALI power supply integrated.

It allows to control 1 channel and up to 64 ballasts by broadcast orders.

Ability to configure up to 64 scenes.

1 input available for conventional pushbutton control.

Possibility of using it as an autonomous device.

GW610100

DALIK-BRD2

Gateway between KNX and DALI protocols, with DALI power supply integrated.

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 64 scenes.

2 inputs available for conventional pushbutton control.

Possibility of using it as an autonomous device.

GW610200

DALIK-BRD3

Gateway between KNX and DALI protocols, with 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

clima

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).

GW632200

DKAC-I

Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit with KNX system.

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

Three fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW630100

clima

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

Video intercom

Video intercom

KNX-Fermax

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

Allows to control and manage KNX devices from the Smile Dominium video intercom, using a project uploaded from the SiDEKNX software.

No programming required.

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

GW620000

energy efficiency

MET-3C

Electric consumption meter of up to three 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-40A

Current transformer of 40A.

GW650040

MET-60A

Current transformer of 60A.

GW650060

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.

Basic	White: PL121100
	Black: PL121200
Design	White: PL221100
	Black: PL221200

SOFTWARE &APPS*

* APP SAMSUNG SMART TV
APP LG SMART TV
APP ANDROID
APP iOS
SiDEKNX

App Samsung SMART TV

To local control installations from a Samsung television with SMART TV system.

Requires a web server in the installation, which will work as gateway between the Smart TV and the control elements. (See Visualization section, page 15).

App LG SMART TV

To local control installations from a LG television with SMART TV system.

Requires a web server in the installation, which will work as gateway between the Smart TV and the control elements. (See Visualization section, page 15).

App Android

To control installations from devices running Android operating system.

Requires a web server in the installation, which will work as gateway between the Android device and the control elements. (See Visualization section, page 15).

Download here:

App iOS

To control installations from devices running iOS operating system (iPhone, iPad or iPod touch).

Requires a web server in the installation, which will work as gateway between the iOS device and the control elements. (See Visualization section, page 15).

Download here:

SiDEKNX

Fast and intuitive software for programming screens and web servers. (See Visualization section, page 15)

Possibility of importing the group addresses of an ETS project.

Project transfer to the devices with FTP download.

Easy and free updating from the internet.

Download here:

ACCESORIES*

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

ING-DH

Optical smoke detector.

ING-DTV

Thermovelocimetric fire detector.

ING-SIF

Infrared motion detector 12 Vdc.

Recessed.

ING-SIN-3H

Flood detector.

Three threads.

January 2018

The present catalog
is subject to realization
of changes and modifications
by Ingenium S.L.

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