

DINUY

Brighten up your day

KNX Solutions for Home and Building Automation

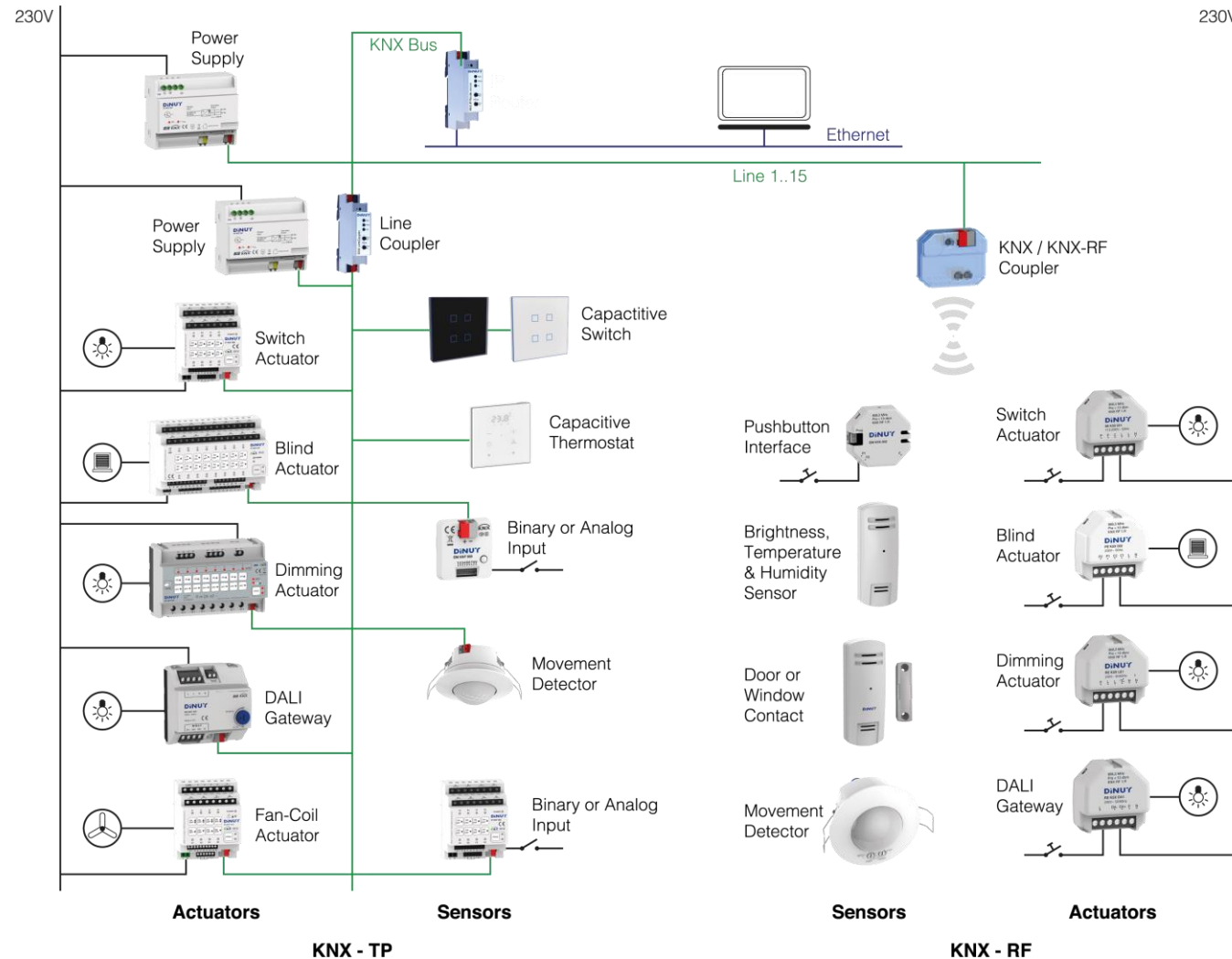
KNX-TP and KNX-RF Devices



Summary

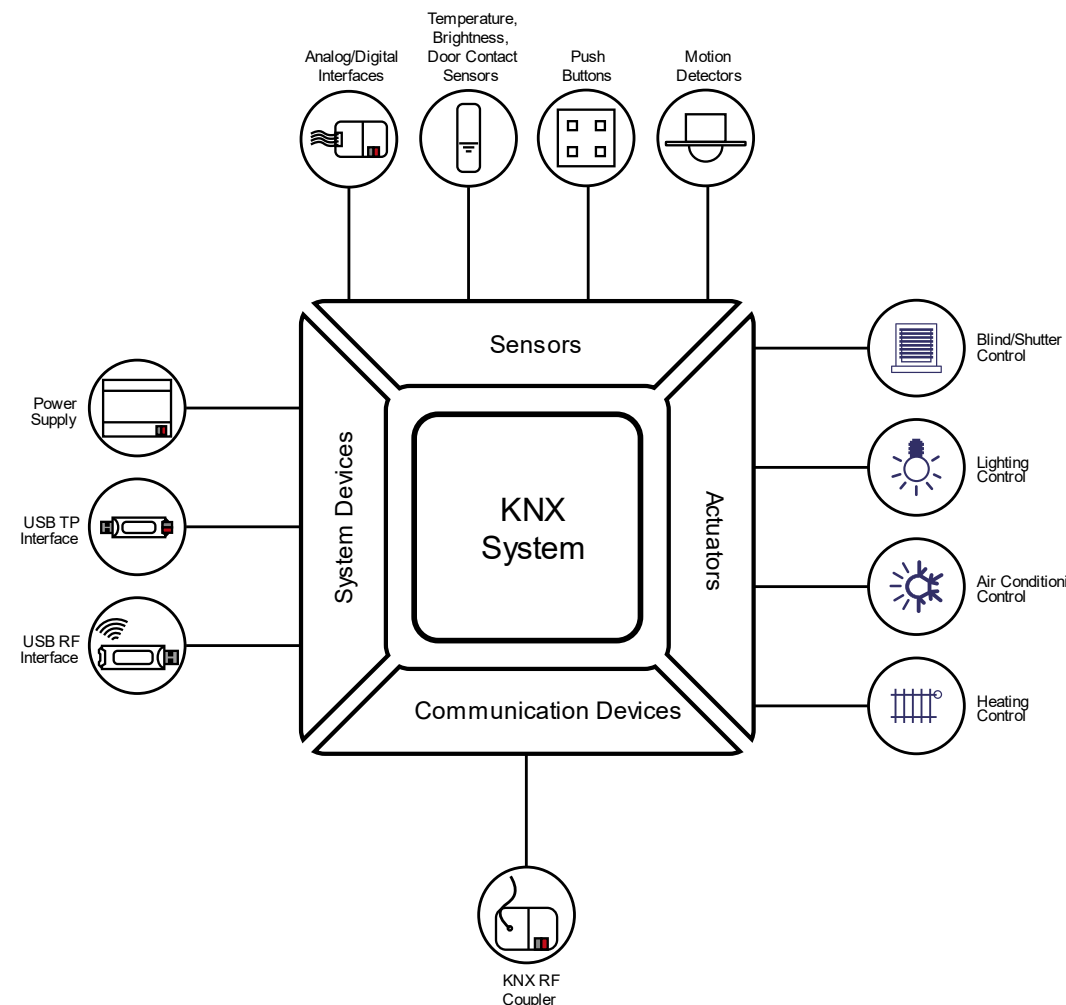
Overview	<u>3</u>
KNX – TP Devices	<u>4</u>
Sensors	<u>5</u>
Actuators	<u>14</u>
System Devices	<u>24</u>
KNX – RF System-Mode Devices	<u>29</u>
Sensors	<u>30</u>
Actuators	<u>37</u>
Communication Devices	<u>45</u>

Overview



KNX-TP Devices - Introduction

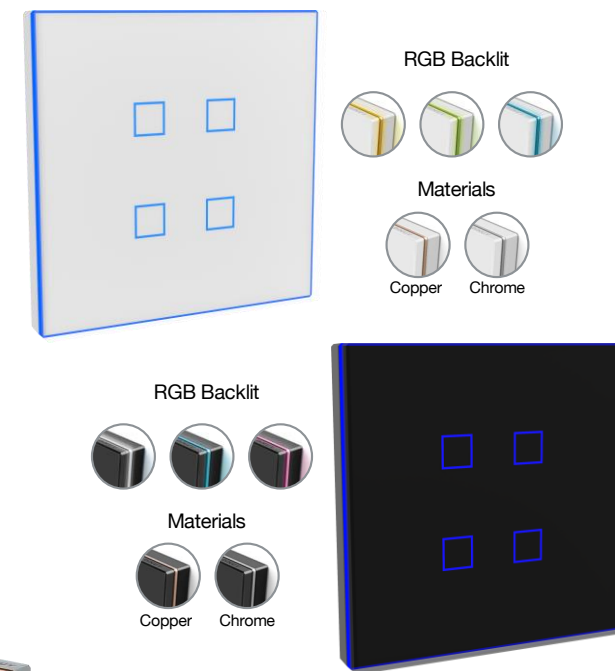
- Based on the world-wide open Standard KNX, DINUY provides home automation and tertiary buildings control solutions designed to maximize flexibility, comfort and profitability, for new or renovated buildings.
- The DINUY KNX product catalogue offers a broad and comprehensive portfolio, covering a wide range of requirements, applications and solutions.
- The KNX range from DINUY offers:
 - System devices: they are needed for the fundamental functioning, programming and commissioning of the system.
 - Power supply
 - Line Coupler
 - IP Interface and IP Router
 - USB KNX-TP and USB KNX-RF Interfaces
 - Sensors: they gather information and send it on the bus as a telegram.
 - Binary or Analog Input
 - Temperature, Brightness and Door/Window contact sensor
 - Push-button
 - Motion Detector
 - Actuators: they receive data which are converted into actions.
 - Switch and Dimming actuators
 - Blind/Shutter actuator
 - HVAC actuator
 - Communication devices: the gateway between the KNX Bus and other transmitting media.
 - KNX-RF media coupler



KNX-TP Devices - Sensors

LAÜKA Capacitive Switches

- The Laüka series is a range of 4-gang KNX multifunctional Glass capacitive buttons.
- 4 tactile buttons where direct functions can be assigned to control lighting, blinds or scenes.
- Incorporates temperature sensor and a configurable Thermostat for cooling and/or heating control.
- Configurable RGB backlit.
- RGB lighted and customizable icons: <https://dinuy.com/en/lauka-configurator>
- Built-in Proximity sensor (models without backlit).



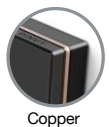
KNX-TP Devices - Sensors

LAÜKADOT Capacitive Switches

- Range of KNX multifunctional 2-, 4-, 6- or 8-gang Glass capacitive switches.
- The luminous dots, which indicate the pulsation areas, provide a light and modern appearance.
- Formed by 2/4/6/8 tactile buttons where direct functions can be assigned to control lighting, blinds or scenes.
- Configurable sound when the key is pressed.
- Incorporate brightness sensor, temperature sensor and a configurable Thermostat for cooling and/or heating control.
- Two different combinations:

Black glass + cooper frame

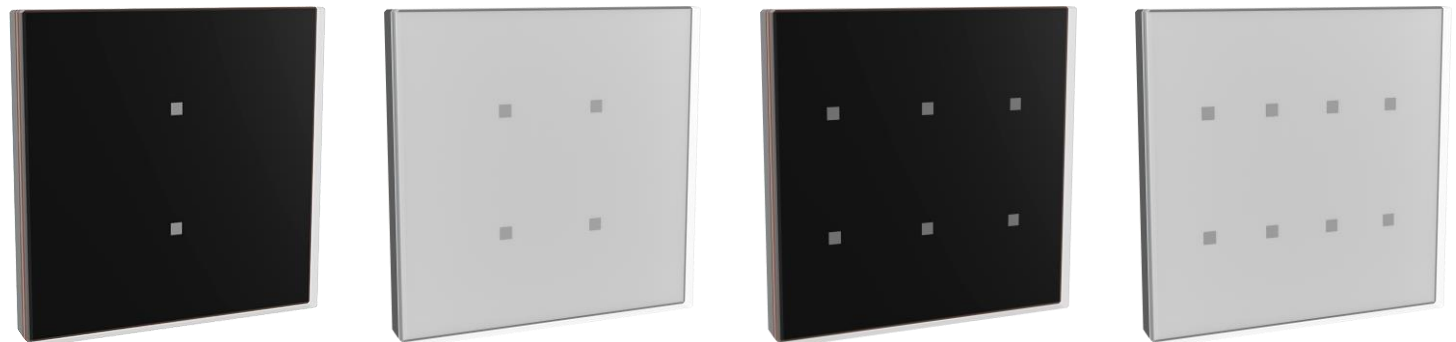
White glass + chrome frame



Copper



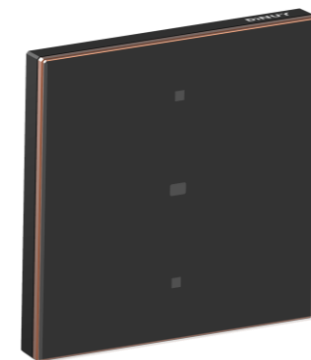
Chrome



KNX-TP Devices - Sensors

PU KNT PR1 & PU KNT PR2 – Touchless Switches

- Glass proximity button with 1 output channel.
- Control over lighting, blinds and recalling scenes without touching physically any contact surface.
- Black glass and copper-colored frame or white glass and chrome-colored frame.
- The channel has the following functions: Switch, Dimmer, Blind / Shutter Control, Scenes Management, Fixed / Forced Value Transmitter
- Built-in Temperature Sensor.
- It has 2 RGB LEDs, which behavior can be parameterized via ETS.
- Proximity sensor sensitivity can be adjusted via ETS.
- Possibility of receiving confirmation of pulsation by sound.
- Mounting in universal mechanism box.



KNX-TP Devices - Sensors

TM KNT 001 & TM KNT 002 – Touch Room Temperature Controller

- KNX Room Temperature Glass Controller.
- Incorporate 6 capacitive buttons:
 - ✓ 2 buttons (+/-) for adjustment of the room temperature.
 - ✓ 1 button for switching on/off the system.
 - ✓ 1 button for adjustment of the fan speed (TM KNT 001) or HVAC mode (TM KNT 002).
 - ✓ 2 buttons for free configuration: switch, dimming, shutters/blinds control, scenes...
- Display shows actual temperature or humidity or the target value setpoint.
- Thermostat function for a heating or/and a cooling system is available.
- Incorporate 4 Inputs for door/window contacts or temperature probes.
- Built-in Relative Humidity sensor for ambient humidity control.
- Flush-mounting design device. Mounting is done in common standard flush-mounted device boxes.



KNX-TP Devices - Sensors

EM KNT 001 – Interface with 4 Binary Inputs and 4 LED Outputs

- Universal Interface with 4 Binary Inputs or 4 LED Outputs.
- Binary Inputs can be connected to sensors, switches or potential-free buttons. Binary Outputs can be used for low current LED control.
- Each of the 4 channels has the following functions: Switch, Dimmer, Multiple or Sequential Switch, Blind/Shutter Control, Value Sending (light level, temperature...), Scene Control, Pulse Counting or LED Output.
- Connection cables can be extended up to 10m.
- Power for the LED outputs is supplied by the Interface.
- Short, overload and inverse polarity protected LED outputs.
- Reduced size: 38 x 42 x 15mm. Installation in standard mounting box, behind the pushbutton/switch.



KNX-TP Devices - Sensors

EM KNT 002 – Interface with 4 Analog / Binary Inputs

- Interface with 4 Analog or Binary Inputs.
- Binary Inputs can be connected to sensors, switches or potential-free buttons. Analog Inputs can be connected to Temperature probes.
- Each of the 4 channels has the following functions: Switch, Dimmer, Multiple or Sequential Switch, **Blind/Shutter Control**, **Value Sending** (light level, temperature...), **Scene Control**, **Pulse Counting**, Temperature Sensor (ST KNT 001 or ST KNT 002) or Motion Detector (DM KNT 004).
- Connection cables can be extended up to 10m.
- Up to 4 Room Thermostats for Heating or Cooling control systems included.
- Reduced size: 38 x 42 x 15mm. Installation in standard mounting box, behind the pushbutton/switch.



KNX-TP Devices - Sensors

EM KNT 003 – Interface with 8 long-distance Binary Inputs

- Interface with 8 Binary Inputs.
- Connection cables can be extended up to **200m**.
- Binary Inputs can be connected to sensors, switches or potential-free buttons.
- Each of the 8 channels has the following functions: Switch, Dimmer, Multiple or Sequential Switch, Blind/Shutter Control, Value Sending (light level, temperature...), Scene Control or Pulse Counting.
- Reduced size: 38 x 42 x 15mm. Installation in standard mounting box, behind the pushbutton/switch.



KNX-TP Devices - Sensors

DM KNT 001 / DM KNT 003 – Movement Detectors

- PIR Motion Detectors with built-in Luminosity Sensor.
- Daylight level and Time delay can be set via control knobs, IR remote control (EM MAN DM0) or ETS.
- Depending on the parameterization, it can work as:
 - Motion detector
 - Twilight switch
 - Constant light control
 - Brightness and Temperature sensor
- Two different references are available:
 - DM KNT 001: flush-ceiling mounting. Coverage: 360° & Ø7m at 2,5m high.
 - DM KNT 003: flush mounting in universal box. Coverage: 200° & 8m at 1m high.



KNX-TP Devices - Sensors

DM KNT 004 – Basic Movement Detector

- PIR Movement Detector which must be connected to the input of the following devices: EM KNT 002, EM K5X 004, RE KNT LE3 or IR KNT 044.
- As soon as it detects a movement, and the light level is lower than the threshold value, an ON telegram will be sent to the input of the interface to which it is connected. After the time delay has elapsed, the OFF telegram will be sent. The timing is restarted every time a new movement is detected.
- Lux level and Time Delay can be set via control knobs.
- Two DM KNT 004 can be connected in parallel to the same input, which allows increasing the motion detection area.
- Includes a restriction cover, which allows to exclude detected areas.
- No external supply required.
- Flush-ceiling mounting.
- Coverage: 360° & Ø7m at 2,5m high.



KNX-TP Devices - Actuators

IT KNT 001 – 2-channel Switch or 1-channel Blind/Shutter Actuator

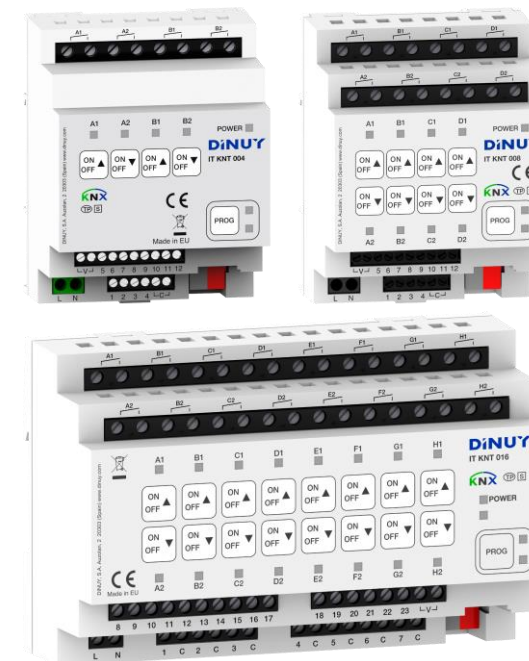
- Multifunction Modular Switching Actuator with 2 output channels.
- Incorporates 2 free-voltage outputs with up to **16A**/channel switching capacity and **zero-cross point control**.
- Manual control from the control knobs on the cover.
- Offers multiple configurations as shutter channels or individual outputs.
- Within Blind/Shutter operation mode:
 - Switching of electrically-operated venetian blinds, roller shutters, awnings and venting louvers.
 - Safety functions: wind, rain and frost alarms and sun protection.
 - Scenes (up to 8) and Forced function.
- Within Switching operation mode: timer, logics , forced-control, scenes and threshold control.
- DIN-rail (1u) mounting.



KNX-TP Devices - Actuators

IT KNT 004 / 008 / 016 – 4- / 8- / 16-channel Switch or 2- / 4- / 8-channel Blind/Shutter Actuators

- Multifunction Modular Switching Actuators:
 - 4- / 8- / 16-channel Switching Actuator
 - 2- / 4- / 8-channel Blind/Shutter/Awning/Venting Louver Actuator
- Up to **16A** switching capacity and **zero-crossing-point control**.
- Up to **12 / 12 / 23 Digital/Analog Inputs**:
 - IT KNT 004 & IT KNT 008: 8 Binary Inputs + 4 Binary/Analog Inputs
 - IT KNT 016: 16 Binary Inputs + 7 Binary/Analog Inputs
- Connection cables of Binary Inputs can be extended up to **200m**.
- Allow manual control of its outputs thanks to the keypad on the cover, without KNX Bus.
- Incorporate Heating and/or Cooling **Thermostat** function.
- 8 / 8 / 16 **Logic Functions**, Centralized Control, Scenes, Time, etc.
- DIN-rail (4u or 8u) mounting.



KNX-TP Devices - Actuators

PE KNT 001 / 002 – 2-channel Switch or 1-channel Blind/Shutter Actuators

- Multifunction Switching Actuators:
 - 2-channel Switching Actuator.
 - 1-channel Blind/Shutter/Awning/Venting Louver Actuator.
- Up to 16A / 10A switching capacity per channel and zero-crossing-point control.
- Offer multiple configurations as shutter channels or individual outputs:
 - 1 Blind/Shutter control channel:
 - Control of Venetian Blind, Roller Blind, Awning or Venting Louver.
 - Safety features: wind, rain and freeze alarms and sun protection.
 - 2 On/Off Switching channels: Timing, Forced, Logics, Threshold and Scenes.
- Up to 4 Digital/Analog inputs:
 - Binary Input: connection of a conventional, voltage-free binary button, switch or sensor.
 - Analog Input: connection of a DINUY temperature probe (ST KNT 001 or ST KNT 002).
- Incorporate up to 4 Heating and/or Cooling Thermostat functions.



KNX-TP Devices - Actuators

RE KNT 000 / 004 – 1- / 4-channel RLC+LED Dimming Actuators

- Universal RLC+LED Dimming Actuators with 1 or 4 output channels.
- Leading- or Trailing-edge dimming technology:
 - Dimmable 230V LED lamps.
 - Dimmable 12V LED lamps with electronic transformer.
 - Incandescent, 230V Halogen & 12V Halogen lamps.
- One channel for up to 1000W (RE KNT 000) or four channels for up to 300W (RE KNT 004) each channel.
- Manual control of its outputs is possible thanks to the front rotary knob.
- Integrated overload, short-circuit and over-heating protection.
- DIN-rail (5u) mounting.



KNX-TP Devices - Actuators

RE KNT 008 – 8-channel RLC+LED Dimming Actuator

- Universal RLC+LED Dimming Actuator with **8 output channels**.
- Leading- or Trailing-edge dimming technology:
 - Dimmable 230V LED lamps.
 - Dimmable 12V LED lamps with electronic transformer.
 - Incandescent, 230V Halogen & 12V Halogen lamps.
- Up to 250W per channel.
- The 8 channels can be configured as independent channels or as a sequencer.
- Allow manual control of its outputs thanks to the keypad on the cover, without KNX Bus.
- Integrated overload, short-circuit and over-heating protection.
- Incorporates status and error LED indicators.
- DIN-rail (8u) mounting.



KNX-TP Devices - Actuators

RE KNT LE3 – 1-channel RLC+LED Dimming Actuator

- Universal Dimming Actuator RLC+LED with 1 output channel.
- Leading- or Trailing-edge dimming technology:
 - Dimmable 230V LED lamps.
 - Dimmable 12V LED lamps with electronic transformer.
 - Incandescent, 230V Halogen & 12V Halogen lamps.
- Maximum capacity of 250W.
- 4 Digital / Analog Inputs.
- Up to 4 Room Thermostats for Heating or Cooling control systems included.
- Conventional pushbutton can be wired for local or remote control.
- Flush-mounting into junction box.



KNX-TP Devices - Actuators

RE KNT DA1 – 3-channel DALI Broadcast Gateway

- KNX – **DALI Broadcast** Interface with 3 output channels.
- Up to 64 DALI Drivers or Ballasts per channel can be controlled (128 in total).
- Manual control of its outputs is possible thanks to the front rotary knob.
- Unidirectional and Broadcast communication with the DALI lighting fixtures. Does not allow the creation of groups within each of the 3 channels.
- Different functions and parameters can be enabled and parameterized by the ETS: staircase lighting timer with warning function, dimming speed, scene control (up to 5), sequential operation, soft turn on/off, etc.
- Integrated overload, short-circuit and over-heating protection.
- DIN-rail (5u) mounting.



KNX-TP Devices - Actuators

RE KNT 110 – 3-channel 1-10V_{DC} Dimming Actuator

- 1-10V_{DC} Dimming Actuator for 1-10V Drivers or Ballasts with 3 output channels.
- It has 2 control elements for switching/dimming the load:
 - “K” relay: 3A relays for switching on/off the lighting fixtures.
 - 1-10V_{DC} signal: analogue output for dimming the lighting fixtures.
- Manual control of its outputs is possible thanks to the front rotary knob.
- Different functions and parameters can be enabled and parameterized by the ETS: staircase lighting timer with warning function, dimming speed, scene control (up to 5), sequential operation, soft turn on/off, etc.
- Integrated overload, short-circuit and over-heating protection.
- DIN-rail (5u) mounting.



KNX-TP Devices - Actuators

RE KNT RGB – 4-channel RGBW Dimming Actuator

- RGBW Dimming Actuator with 4 output channels.
- PWM dimming technology for the control of 12-48V_{DC} LED Strips.
- The four channels can be configured as 4 independent channels, for single-color LED Strips, as 1 RGBW channel or as RGB+ W channel.
- Up to **10A** per channel and 40A in total.
- Manual control of its outputs is possible thanks to the front rotary knob.
- Different functions and parameters can be enabled and parameterized by the ETS: staircase lighting timer with warning function, dimming speed, scene control (up to 5), sequential operation, soft turn on/off, etc.
- Integrated overload, short-circuit and over-heating protection.
- DIN-rail (5u) mounting.



KNX-TP Devices - Actuators

IR KNT 044 – 4-channel RGBW Dimming + 4-channel Switching Actuator

- Multifunction Dimming Actuator which can work as:
 - 4-channel Dimming Actuator and
 - 4-channel Switching Actuator or
 - 2-channel Blind/Shutter Actuator or
 - 1-channel Fan-Coil with 2 tubes, 3 Speeds and On/Off Valve Actuator
- PWM dimming technology for the control of 12-48Vdc Single-color, RGBW or RGB+ W LED Strips.
- Up to 4 Digital/Analog + 8 Binary Inputs. The cable of the Binary Inputs can be extended up to 200m.
- Manual control of its outputs is possible thanks to the front keypad.
- 4 Heating and/or Cooling Thermostat functions are available.
- 8 Logic functions, Centralized control, Scenes, Timing function, etc.
- DIN-rail (4u) mounting.



KNX-TP Devices – System Devices

FA KNT 001 – Power Supply 640mA

- KNX Power Supply produces and monitors KNX system voltage.
- The device has an integrated bus choke and additionally provides an output for auxiliary power.
- A 30VDC auxiliary voltage is made available via an additional connection terminal. This voltage can be used to supply a further bus line (in connection with a separate choke).
- Reset button and overload status LED.
- A reset is triggered by pressing the reset pushbutton and lasts 22 seconds (regardless of the duration of the pushbutton action). The bus line is disconnected from the power supply and the devices connected to this bus line are returned to their initial state.
- Modular installation devices, DIN-rail mounting.



KNX-TP Devices – System Devices

CO KNT LC1 – KNX Line Coupler Secure

- The KNX Line Coupler Secure is a KNX line coupler in a compact design. It connects two KNX bus segments (for example, a KNX line with a KNX area).
- The device supports KNX Security. The option can be activated in the ETS. As a secure line coupler, the device enables the forwarding of both secured and unsecured communication. In addition, access to the device itself (e.g., for a download) is protected by KNX Security.
- The KNX Line Coupler Secure operates as a line or backbone coupler. In both cases, KNX TP is used as a backbone.
- The device has a filter table (8k bytes) and ensures a galvanic separation between the lines. The coupler supports KNX long frames and is compatible with the ETS® software.
- The buttons on the front side allow to deactivate the telegram filters for test purposes. The LEDs indicate operating conditions as well as communication errors on the KNX bus.
- The power is supplied via the KNX bus (main line).



KNX-TP Devices – System Devices

CO KNT IPI – KNX IP Interface Secure

- The KNX IP Interface Secure serves as a secure interface between a LAN (IP, Ethernet) and KNX and can be used as a programming interface for the ETS®.
- As a KNX Secure Interface (tunneling), the device prevents unauthorized access to the system. The connection between PC and interface is encrypted. The security option can be activated or deactivated in the ETS.
- With the KNX IP Interface Secure, the KNX bus can be accessed from any point in the LAN. Encryption also enables secure programming over the Internet.
- The device is characterized by a compact design with a width of only 1 module width (18mm) and is powered by the KNX bus.
- The buttons and LEDs on the device allow a local diagnosis of the current operating status and possible communication errors.



KNX-TP Devices – System Devices

CO KNT IPR – KNX IP Router Secure

- The KNX IP Router Secure enables the secure forwarding (routing) of telegrams between different lines over a LAN (IP, Ethernet) as a fast backbone.
- As a secure router, the device enables the connection of unsecured communications on a KNX TP line with a secure IP backbone.
- The KNX IP Router Secure has an extended filter table for main group 0..31 and can cache up to 150 telegrams.
- The device also serves as a secure interface between IP (Ethernet) and KNX and can be used as a programming interface for the ETS®. As a KNX Secure Interface (tunneling), the device prevents unauthorized access to the system. The connection between PC and interface is encrypted.
- With the KNX IP Router Secure, the KNX bus can be accessed from any point in the LAN. Encryption also enables secure programming over the Internet. The security option can be activated or deactivated in the ETS.
- The device is characterized by a compact design with a width of only 1 module with (18mm) and is powered by the KNX bus.
- The buttons and LEDs on the device allow a local diagnosis of the current operating status and possible communication errors.



KNX-TP Devices – System Devices

CO KNT 002 – USB / KNX Interface Stick

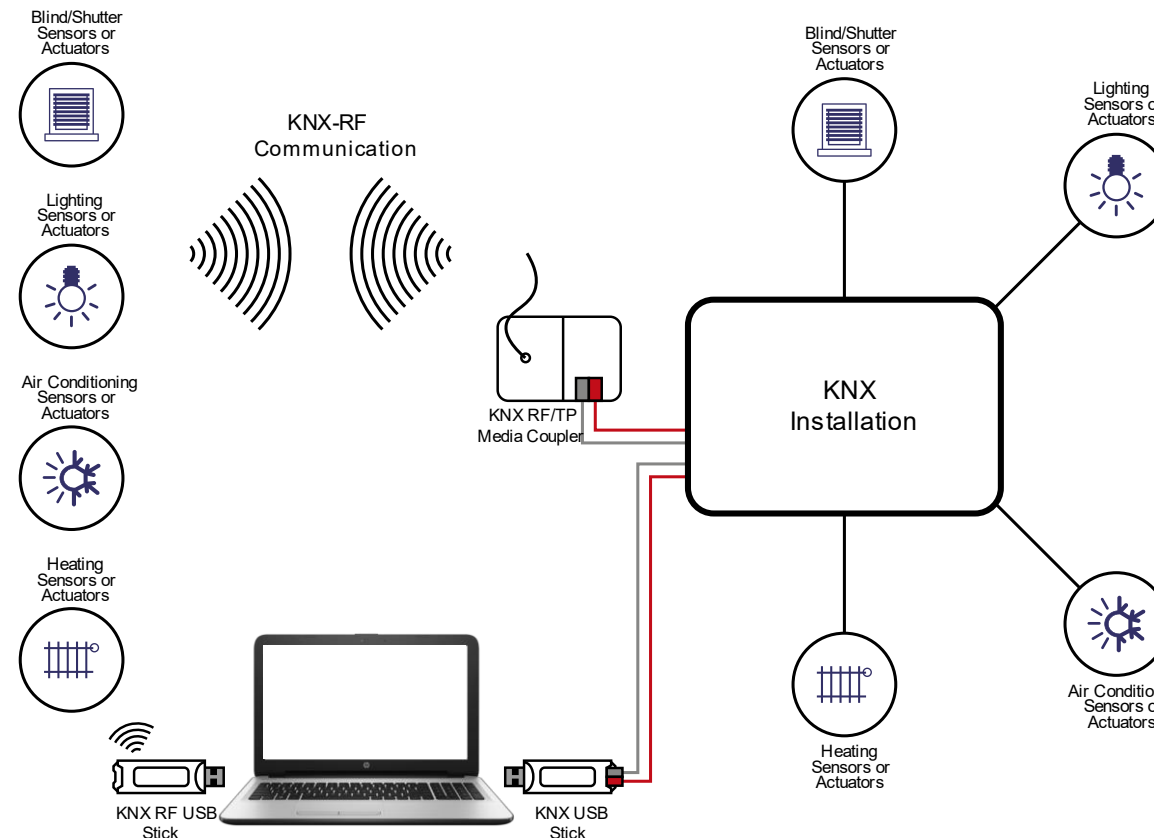
- KNX-USB Interface Stick for the programming of the KNX installation.
- It is a data interface between a PC or laptop and the KNX installation bus.
- Establishes a bidirectional connection between a PC and the KNX installation bus.
- The USB connector is galvanic isolated from the KNX bus.
- The LEDs in the device indicate the operating status and communication errors on the bus.
- It can be used as a programming interface for ETS Software Version 3 (or higher) and supports KNX long frames. Long telegrams enable a faster download to devices that can receive these telegrams.



KNX-RF Devices – Introduction

FAST and EASY. Save time and work!

- With the new KNX-RF devices, new opportunities of incorporating KNX technology to previous installation are open.
- Renovating old buildings where it is not possible to reach different points with wiring, there new RF devices allow us to implement the KNX protocol.
- In existing KNX installations where we need to add some other extra sensors or actuators once the works are finished, by using these new RF devices we can increase the control of new options.
- We can control blinds/shutters, lighting, heating, scenarios, wirelessly without doing any extra work in the building, avoiding discomfort, dust, noise produced by regular building works.
- This KNX-RF range is produced under the KNX RF S-Mode Standard which allows working completely in every KNX installation.
- As they are produced under that technology all devices can be programmed with the ETS5 in the same way as the wired KNX devices.
- A maximum distance of 100m can be reached (in the free field) without the installation of extra signal repeaters.



KNX-RF Devices – Sensors

EM K5X 002 – Battery-operated 2-input Pushbutton Interface

- KNX-RF S-Mode Wireless Transmitter with 2 Binary Inputs.
- Incorporates 2 inputs which can be parameterized via ETS:
 - Lighting Switching and Dimming.
 - Blind and Shutter control.
 - Timer starting or finishing.
 - Saving and calling Lighting Scenes.
 - Value transmitter (brightness, temperature...).
- Built-in temperature sensor.
- Flush-mounted device to be inserted in universal box, behind the pushbutton.
- Battery-operated (2 x 3V CR2025). Useful life higher than 8 years. The communication object "Battery Status" is available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

EM K5X 004 – 230V-operated 4-input Universal Interface

- KNX-RF S-Mode Wireless Universal Interface with 4 Analog or Binary Inputs.
- Up to 4 Digital/Analog inputs:
 - Binary Input: connection of a conventional, voltage-free binary button, switch or sensor.
 - Switching and Dimming.
 - Blinds / Shutter Control.
 - Value Transmitter (brightness, temperature, etc).
 - Lighting Scenes Management.
 - Analog Input: connection of a DINUY temperature probe (ST KNT 001 or ST KNT 002).
 - Movement Detector: with the sensor DM KNT 004.
- 4 Heating and/or Cooling Thermostat functions are available.
- Supplied by the 230V mains.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

SE K5X 002 – Temperature & Humidity Sensor

- KNX-RF S-Mode Wireless Temperature and Relative Humidity value transmitter.
- Incorporates different functions that must be configured via ETS:
 - Sending frequency.
 - Over-heating and over-cooling alarms.
 - Alarms for high or low humidity.
 - Calibration of the built-in sensors.
- Portable or surface mounted device (78 x 28 x 23mm).
- Battery-operated (2 x 3V CR2032). Useful life higher than 8 years (50 tr/day). The communication object "Battery Status" is available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

SE K5X 003 – Door/Window Contact

- KNX-RF S-Mode Wireless Door/Window reed contact transmitter.
- It detects the state (closed/open) of a door or window over the reed contact integrated in the device.
- Incorporates different functions which must be configured via ETS:
 - Sending frequency.
 - Contact polarity.
- Mounting in the frame of a door or window (78 x 28 x 23mm).
- Battery-operated (2 x 3V CR2032). Useful life higher than 12 years. The communication object **"Battery Status"** is available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

SE K5X 005 – Temperature Sensor with Probe

- Wireless Temperature value transmitter with Probe.
- Specially-indicated for underfloor heating installations.
- Incorporates different functions which must be configured via ETS:
 - Sending frequency.
 - Over-heating and over-cooling alarms.
 - Calibration of the built-in sensor.
- Includes Cooling and Heating Thermostat room control.
- Supplied by the 230V mains.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

SE K5X 010 – Temperature, Humidity & Lux Multi-Sensor

- KNX-RF S-Mode Wireless Temperature, Relative Humidity and Luminosity value transmitter.
- Incorporates different functions which must be configured via ETS:
 - Sending frequency of each value.
 - Temperature, Luminosity (sun protection) or Humidity alarms.
 - Calibration of the built-in sensors.
- Portable or surface mounted device (78 x 28 x 23mm).
- Battery-operated (2 x 3V CR2032). Useful life higher than 8 years. The communication object **"Battery Status"** is available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Sensors

DM K5X 001 – Battery-operated Motion Detector

- KNX-RF S-Mode Wireless Infrared Movement Detector.
- Built-in high sensitivity PIR sensor, which, together with the design of the lens, allows detecting the smallest movement within its coverage area.
- Different parameters and functions are available on the ETS:
 - Adjustment of the time delay and brightness by potentiometers or ETS.
 - Movement Monitoring function.
 - Twilight Switch function.
 - Temperature and Brightness Sensor function.
- Flush-ceiling mounting.
- Coverage: 360° & Ø7m at 2,5m high.
- Battery-operated (1 x LS14250 3,6V). Useful life higher than 10 years. The communication object "Battery Status" is available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

MI K5X 001 – 1-channel Switching Actuator

- KNX-RF S-Mode Wireless Switching Actuator with 1 output channel.
- Up to 16A switching capacity with non-free voltage output. Zero crossing-point control which allows switching very high loads (up to 400W with LED lamps).
- Incorporates different functions:
 - Switch.
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- RF signal repeater function included.
- A conventional pushbutton can be wired for local or remote control configurable via ETS.
- Flush-mounted device to be inserted in a junction box (46 x 46 x 30mm).
- Supplied by the 110-230V mains.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

PE K5X 001 – 2-channel Switching or 1-channel Blind Actuator

- KNX-RF S-Mode Wireless 2-channel Switching or 1-channel Blind/Shutter Actuator:
 - 2-channel Switching Actuator.
 - 1-channel Blind/Shutter/Awning/Venting Louver Actuator.
- Up to 16A switching capacity per channel. Zero crossing-point control which allows switching very high loads.
- Up to 4 Digital/Analog inputs:
 - Binary Input: connection of a conventional, voltage-free binary button, switch or sensor.
 - Switching and Dimming.
 - Blinds / Shutter Control.
 - Scenes Management.
 - Analog Input: connection of a DINUY temperature probe (ST KNT 001 or ST KNT 002).
- 4 Heating and/or Cooling Thermostat functions are available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

PE K5X 002 – 2-channel Switch or 1-channel Blind Actuator

- KNX-RF S-Mode Wireless 2-channel Switching or 1-channel Blind/Shutter Actuator:
 - 2-channel Switching Actuator.
 - 1-channel Blind/Shutter/Awning/Venting Louver Actuator.
- Up to 16A switching capacity per channel. Zero crossing-point control which allows switching very high loads.
- Depending on its configuration, different functions are available:
 - As 2-channel switch actuator: Timer, Preset value, Scene control, Logical functions, Forced and Threshold function.
 - As 1-channel blinds/shutters actuator: Wind, Rain and Frost alarm, Sun Protection function, Scene control and Forced function.
- Incorporates 2 inputs for conventional pushbutton, which can be configured independently via ETS.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

RE K5X LE1 – 1-channel RLC+LED Dimming Actuator

- KNX-RF S-Mode Wireless 1-channel RLC+LED Dimming Actuator.
- Leading- or Trailing- Edge dimming technology:
 - Dimmable 230V LED lamps.
 - Dimmable 12V LED lamps with Electronic transformer.
 - Incandescent and Halogen lamps.
- Incorporates different functions:
 - Switching.
 - Dimming
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- RF signal repeater function included, which allows extending the range.
- A conventional pushbutton can be wired for local or remote control configurable via ETS.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

RE K5X LE2 – 1-channel LED Strips Dimming Actuator

- KNX-RF S-Mode Wireless 1-channel Dimming Actuator for 12-48Vdc single-color LED Strips.
- Pulse Width Modulation (PWM) dimming technology.
- Up to 8A can be controlled: 12V → 96W / 24V → 192W.
- Incorporates different functions:
 - Switching.
 - Dimming
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- RF signal repeater function included, which allows extending the range.
- A conventional pushbutton can be wired for local or remote control configurable via ETS.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

RE K5X RGB – 3-channel RGB LED Strips Dimming Actuator

- KNX-RF S-Mode Wireless 3-channel Dimming Actuator for 12-48VDC LED Strips.
- Allows the control of one RGB LED strip or three single-color LED strips.
- Up to 5A per channel can be controlled: 12V → 60W / 24V → 120W.
- Incorporates different functions:
 - Switching.
 - Dimming
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- Up to 4 Digital/Analog inputs.
- 4 Heating and/or Cooling Thermostat functions are available.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

RE K5X 010 – 1-channel 1/10V_{DC} Dimming Actuator

- KNX-RF S-Mode Wireless 1-channel Dimming Actuator for 1/10VDC Drivers or Ballasts.
- Built-in Relay which allows switching-off completely the Drivers.
- Incorporates different functions:
 - Switching.
 - Dimming
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- RF signal repeater function included, which allows extending the range.
- A conventional pushbutton can be wired for local or remote control configurable via ETS.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Actuators

RE K5X DA1 – 1-channel DALI Dimming Actuator

- KNX-RF S-Mode Wireless 1-channel Dimming Actuator for DALI Drivers or Ballasts.
- Unidirectional and Broadcast communication with the DALI lighting fixtures. Control of up to 64 Drivers.
- Incorporates different functions:
 - Switching.
 - Dimming
 - Staircase lighting timer with warning function.
 - Scenes management (up to 5).
- RF signal repeater function included, which allows extending the range.
- A conventional pushbutton can be wired for local or remote control configurable via ETS.
- Programming and commissioning by ETS5 or later version.



KNX-RF Devices – Communication

CO K5X 001 – KNX-RF USB Interface

- The KNX-RF USB Stick is a PC Interface with access to KNX via KNX-RF.
- For convenient, wireless access to a KNX installation from your PC or laptop – for example, for addressing, programming or diagnostics via ETS5 – the USB KNX-RF data interface in the form of a USB stick is a useful add-on.
- Communication between the PC and KNX system is established via wireless signals.
- In the case of KNX-RF products, this link is established wirelessly.
- No additional software apart from the ETS5 is needed on the PC.



KNX-RF Devices – Communication

CO K5X 002 – KNX-RF / KNX Gateway

- The KNX-RF / TP Media Coupler links the KNX-RF devices with the KNX-TP installation.
- Therefore, wired actuators can be controlled by wireless sensors as well as wireless actuators can be controlled by wired transmitters (bidirectional communication).
- Can be used together with devices to control lighting, HVAC, blinds/shutters and main purpose devices.
- In addition to its function as media coupler, the device can also be used as a KNX-RF repeater to increase the wireless range within a KNX-RF wireless system.
- Installed in a flush-mounted device box and obtains its power supply via the KNX bus.



KNX-RF Devices – Communication

AM K5X 001 – KNX-RF Signals Repeater

- KNX-RF S-Mode Signals Repeater.
- Extension of the radio range in KNX radio networks.
- Up to 3 consecutive repeaters can be connected in the same installation.
- No additional programming is needed.
- Supplied by the mains.



DINUY

Brighten up your day