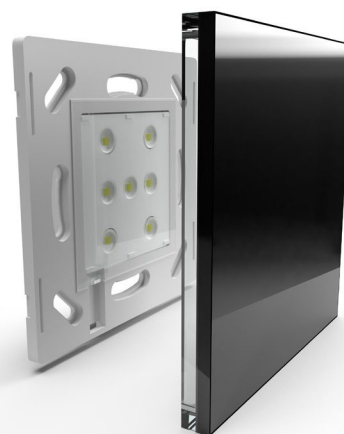


## DO-KP-xxx-KNX

Range of glass touch switches with customisable icons.  
HVAC control function



## Description :

### Configuring the touch controls:

Each touch control point can be configured to send commands under the following conditions:

- Short touch - Long touch - Release
- Short and long touch function with the palm of the hand (multiple simultaneous touches)

Type of actions that can be associated with short touch, long touch and release :

- Switching
- Relative and absolute dimmer
- Motor control, blinds and shutters
- Control modes and scenarios using the customised function:
  - 1 bit, 1 byte and 2 bytes (signed and unsigned) to other bus participants

See the list of functions, parameters and group objects for more details..

### Backlight LEDs, buttons and icons

Each control point can be illuminated independently and controlled by group objects to:

- Variable intensity. Not independently, one level of intensity for all the leds on the control plate.
- Display the control point icon
- Display feedback on control status
- "Flashing" function
- The control plate is also equipped with backlighting (peripheral lighting) that can be controlled by an automatic function and/or by group objects..

### Other general functions

As well as single control points, the keypad also has other functions that are automatic and/or can be controlled from group objects, including:

- Touch feedback sound signal
- Touch feedback indicator (finger tracking)
- Audible alarm
- Proximity sensor for automatic activation of backlight LEDs and control points
- Night and energy saving mode
- Touch switch wake-up from night mode
- Cleaning mode, lock mode, baby mode

## Configurable HVAC control with on-board analogue inputs and outputs

The device has 2 function blocks for HVAC control (for example, to control two zones with a single unit, or to average the temperature of several probes in the same room), and 1 function block for humidity control.

Each block can be linked to the built-in probe (KP-xx-T and KP-xx-TH models) and/or to a remote probe which can be connected to the analogue input (temperature or humidity probe).

The HVAC function can be used to control heating, ventilation and air-conditioning systems. The most important features include:

- PI control (PWM valves, fan coil, 0-10V and 6-way valve via 0-10V)
- On/off control with intelligent energy-saving algorithm based on curve speed to anticipate command. Regulation with a neutral band curve adjustable by a thermal differential
- Control of 2-pipe, 4-pipe and mixed systems.
- HVAC mode and "intelligent" mode (useful for direct setpoint control without the need to use HVAC mode setpoints)
- Configurable automatic hot/cold switching
- Window contact control
- Dew point alarm with connection option (analogue input 1) for external screed probe or room air probe
- Customisable temperature offsets and differentials, predefined or limitable setpoints (min/max) and much more.
- See the list of functions, parameters and group objects for more details.

### Among the types of action that can be associated:

- 1 bit for valve control
- 1 bit for speed selection control
- 1 byte for dynamic percentage control (e.g. for 0-10V control of fans or proportional valves)

### NOTE:

The device includes the possibility of connecting external auxiliary resistive probes (for example, D-RDT-CT-M temperature probes) and active 0-10V probes. Input/output 2 can be configured as a 0-10V analogue output to directly drive any 0-10V actuator. Input 1 can be configured as a dry contact for connection to external push-buttons or switches or used as a window contact. See the list of functions, parameters and group object for more details.



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Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbance Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement

## DO-KP-xxx-KNX

### Available references:

#### D-KP-85-KNX (85x85) :

Control plate 6 touch controls + complete palm control. Configurable with 1, 2, 4 or 6 touch controls.

#### D-KP-85-T-KNX (85x85) :

Control plate 6 touch controls + complete palm control. Configurable with 1, 2, 4 or 6 touch controls.

With integrated temperature probe.

#### D-KP-85-TH-KNX (85x85) :

Control plate 6 touch controls + complete palm control. Configurable with 1, 2, 4 or 6 touch controls.

With integrated temperature and humidity probe.

#### D-KP-125-KNX (85x125):

Control plate 9 touch controls + complete palm control. Configurable with 1, 2, 3, 4, 5, 6 et 9 touch controls.

#### D-KP-125-T-KNX (85x125) :

Control plate 9 touch controls + complete palm control. Configurable with 1, 2, 3, 4, 5, 6 et 9 touch controls.

With integrated temperature prob.

#### D-KP-125-TH-KNX (85x125) :

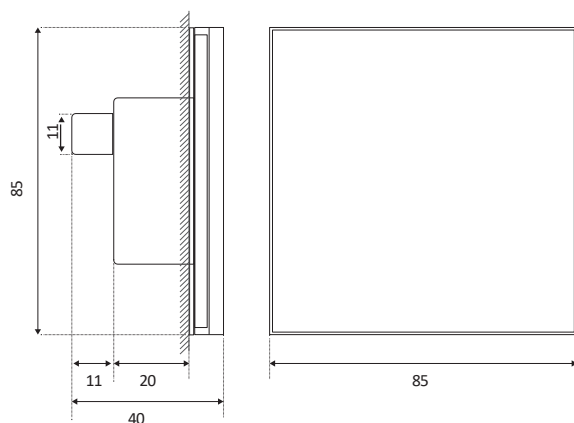
Control plate 9 touch controls + complete palm control. Configurable with 1, 2, 3, 4, 5, 6 et 9 touch controls.

With integrated temperature and humidity probe.

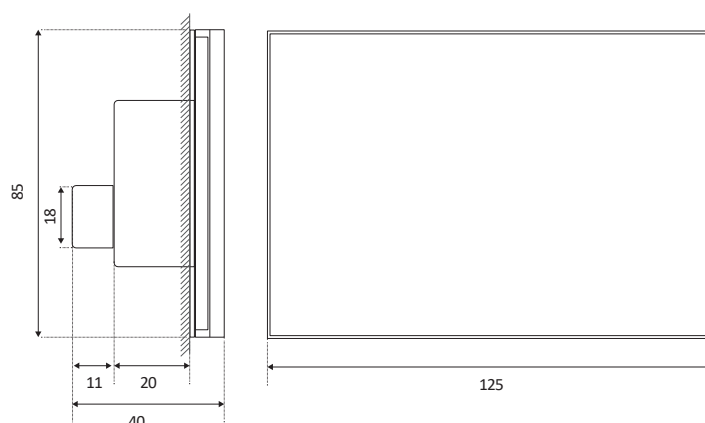
All these references can be completed with a finishing glass from the **DO-GLASS** range!

### Dimensions (mm) :

#### D-KP-85



#### D-KP-125



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Information technology equipment. Safety. General requirement



## Technical specifications

### Electrical characteristics

Power supply voltage (Bus)	By KNX Bus
Max. current consumption	0,9 W
Min. current consumption	0,25 W
Bus	KNX

One analogue input and one configurable 0-10V analogue input/output

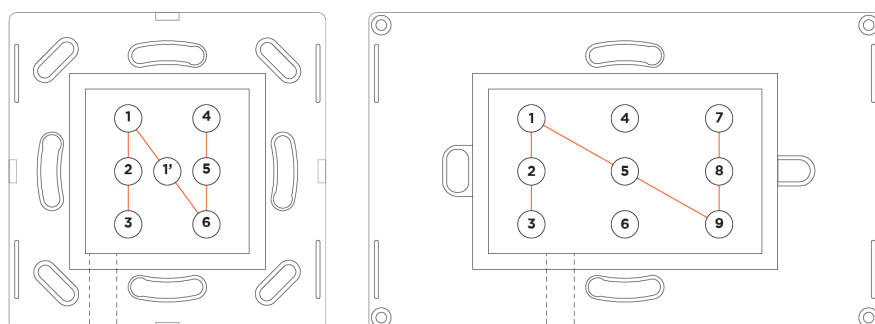
Examples of use:

- Dry contact (window contact, additional mechanical button, etc.)
- Temperature probe (remote probe, average  $T^\circ$ , second independent zone)
- Other analogue probe (humidity probe, light probe, etc.)
- Dew point management (screed probe, air probe)
- 0-10 max 3mA output for direct proportional control

### Environmental characteristics

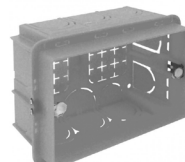
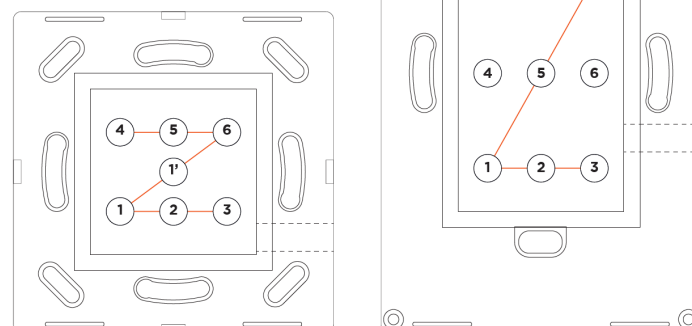
Ambient working temperature	0°C ~ 40°C
Environmental impact	2
Protection	(IP20)
Storage ambient humidity (non-condensing))	10% ~ 90%

## Installation (N)



All models are compatible with 502 or D60 flush mount boxes..

## Installation (Z)



D-KP-125-x models are also compatible with 503 flush mount boxes..



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L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement



Bright and  
**modern**



DO.Tatto can be used as ambient lighting by activating the peripheral lighting.

Program the appearance of your icons directly from your screen or Dovit APP. Integrate your preferences into predefined scenarios according to different times of the day.



EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

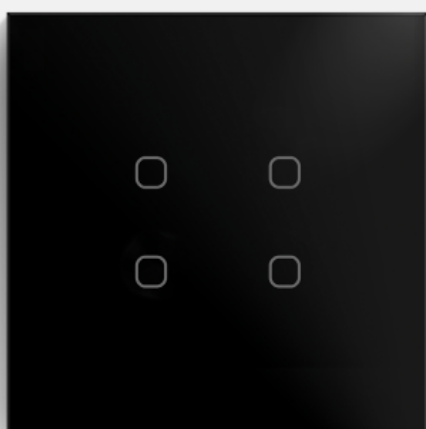
Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbant Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement

Customize the visibility of the icons with our glass plates

**The screen-printed glass**



The icons remain subtly visible even in Ghost Mode, adding an aesthetic dimension to your space while maintaining a clean and functional design.

**The glass with customization card**



Icons are visible when the switch is turned on but disappear completely when the switch is off. You have the flexibility to change the cards to match the evolution of your style or needs.



With Ghost Mode, the icons become invisible when the switch is no longer in use. As your hand approaches, the proximity sensor brings your setup back to life.



EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

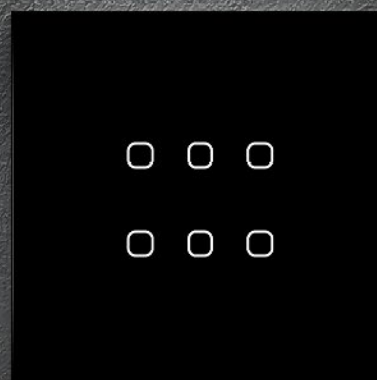
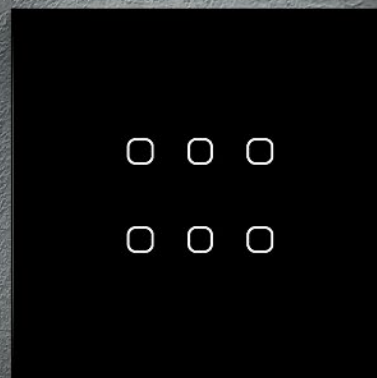
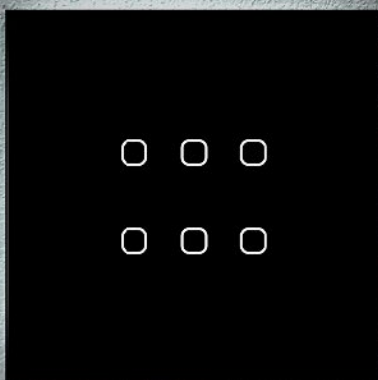
Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbance Characteristics. Limit and methods of measurement

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Information technology equipment. Safety. General requirement



## Variable brightness



Program the intensity directly from your screen or Dovit APP. Integrate your preferences into predefined scenarios based on different times of the day.



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Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

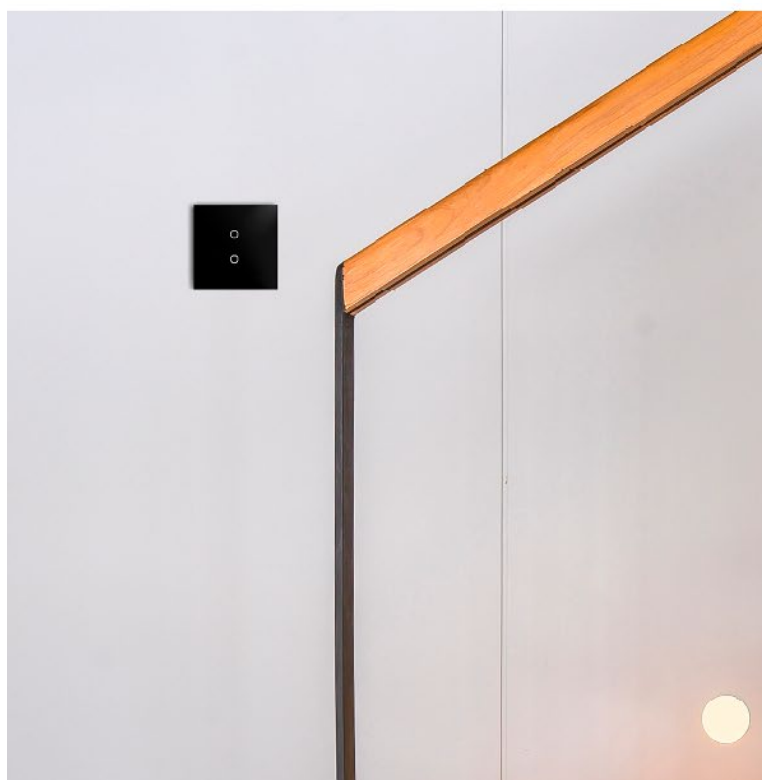
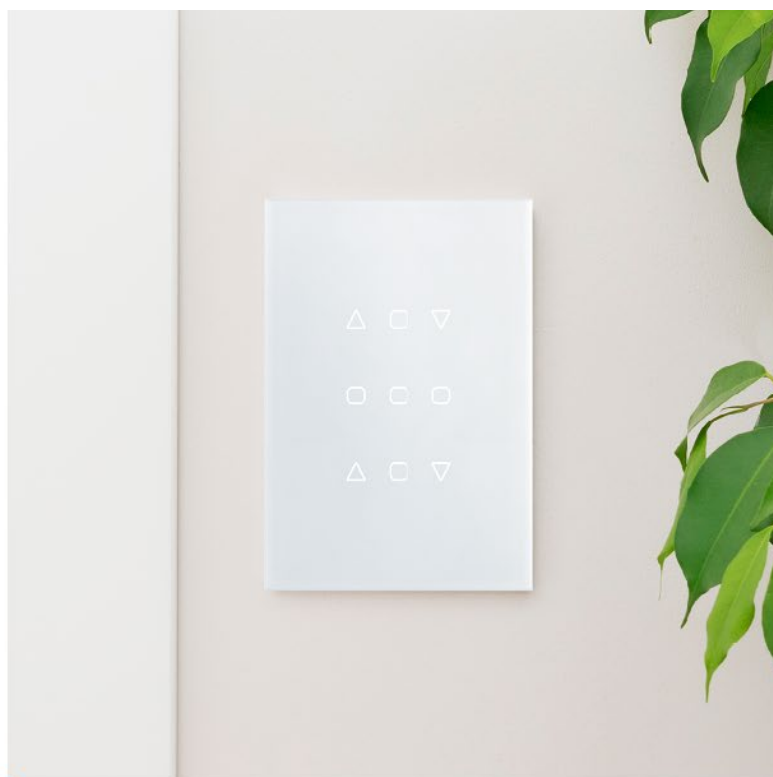
EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbant Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement

### A versatile switch

Say goodbye to unattractive columns of switches.  
Centralize all room functions on a single Tatto.

From 9 visual commands, upgrade to 20 regular  
commands thanks to touch recognition.



### Ideal for controlling dimmable lights



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EMC - emission specification: EN 55032:2012/AC:2013  
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Information technology equipment. Safety. General requirement



**A sleek and discreet  
design to complement any  
interior style**



### **Real-time feedback**

An illuminated icon can indicate specific events, such as an activated alarm, a door left open, or lights turned on.



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L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement

## Customizable glasses to suit your needs

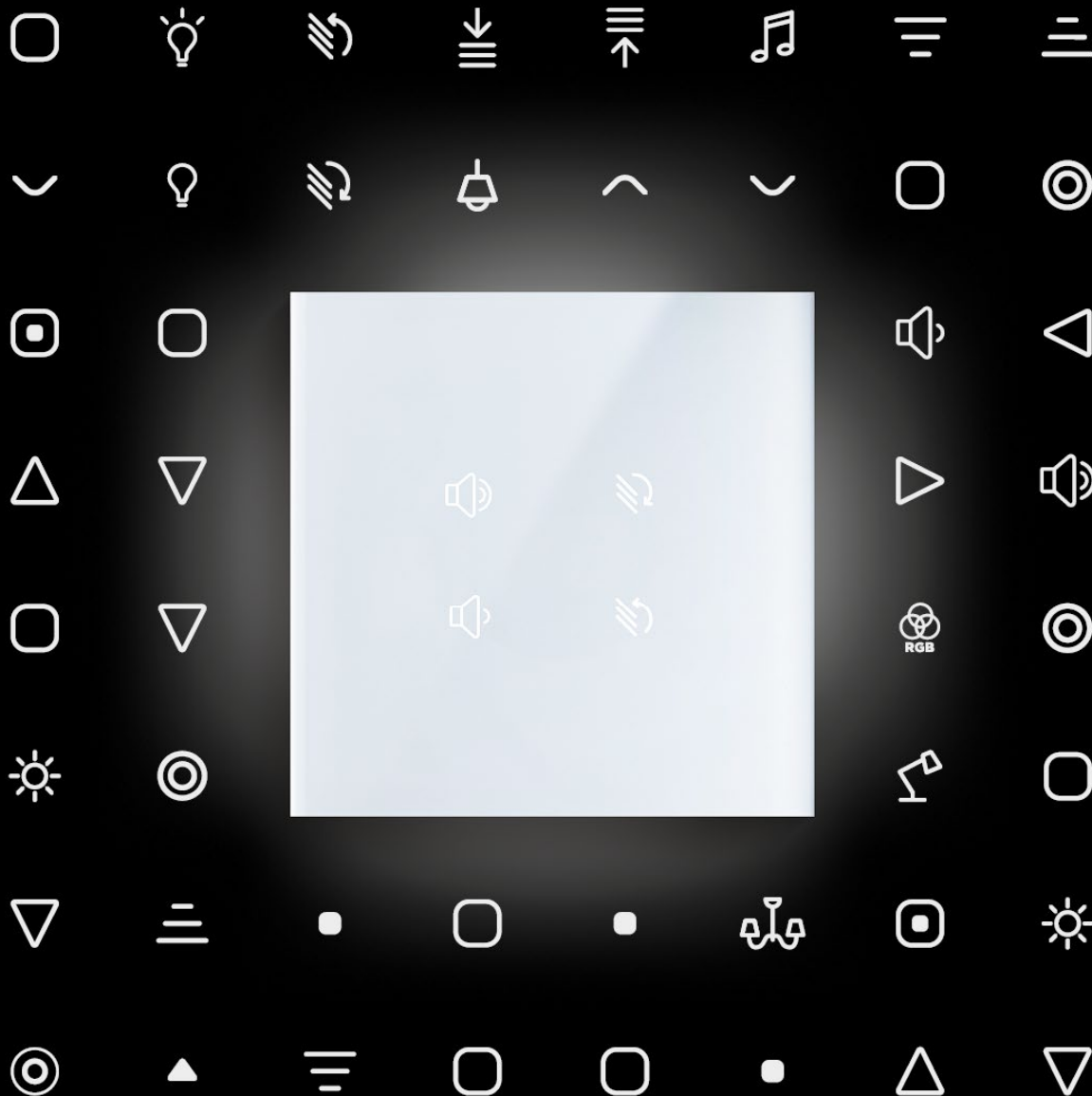
### Dovit Icon Library

Explore an extensive library of icons to bring your ideas and specific needs to life.

Customize each programmed command with a wide range of carefully crafted pictograms. Our library offers a plethora of options, from standard icons to unique designs tailored to your style. Easily and quickly identify each command with this intelligent and aesthetic customization.

### Design Service

To delve further into the customization of your Tatto switches, create your own icons to match all application areas (offices, hotels, stores, showrooms, etc.).



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## DO-KP-xxx-KNX

### DO-GLASS range:

To complete the look of your D-KP touch switch, a whole library of glasses and icons has been developed to meet user expectations in terms of design and functionality.

These glasses are available pre-configured and can therefore be placed directly on the control plate, or configured by the installer who will place an icon card under the finishing glass.

#### Note on installing or replacing the glass:

The control plate can also be operated without a glass cover thanks to the plastic cover. Before installing the glass, we recommend that you run the calibration function (not available for single touch control configurations).

At the end of this time, the control plate will calibrate the touch control in relation to the glass that has been installed. The calibration function is also available via Bus.

Note also that at regular intervals, the control plate automatically performs a calibration without this being visible to users!

### Colours available



### Configurations of glass references:

Preconfigured glass:	D-GLASS*	-	X	-	XX	-	XX	-	X	-	X
Icons card only:	D-CARD		.	-	XX	-	XX	-	X	-	X
			⋮		⋮		⋮		⋮		⋮
			<b>Colour</b>		<b>Size</b>		<b>Function</b>		<b>Variant</b>		
			B (Black)		85 (85x85)		SL (generic)				
			W (White)		125 (85x125)		SM (motor control)				
			S (Sand)								



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EMC - emission specification: EN 55032:2012/AC:2013  
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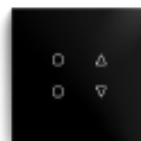
L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement



DO-KP-xxx-KNX









DO-GLASS Library:









# Square glasses 85 X 85



## GENERIC







## MOTORS







Product code	N installation	Z installation
D-GLASS-x-85-SL-1 D-CARD-85-SL-1		
D-GLASS-x-85-SL-2 D-CARD-85-SL-2		
D-GLASS-x-85-SL-4 D-CARD-85-SL-4		
D-GLASS-x-85-SL-6 D-CARD-85-SL-6		

Product code	N installation	Z installation
D-GLASS-x-85-SM-1A D-CARD-85-SM-1A		
D-GLASS-x-85-SM-2A D-CARD-85-SM-2A		
D-GLASS-x-85-SM-2B D-CARD-85-SM-2B		
D-GLASS-x-85-SM-3A D-CARD-85-SM-3A		

## MIXED

## MIXED

Product code	N installation	Z installation
D-GLASS-x-85-MX-4-001 D-CARD-85-MX-4-001		
D-GLASS-x-85-MX-4-002 D-CARD-85-MX-4-002		
D-GLASS-x-85-MX-6-001 D-CARD-85-MX-6-001		

Product code	N installation	Z installation
D-GLASS-x-85-MX-6-002 D-CARD-85-MX-6-002		
D-GLASS-x-85-MX-6-003 D-CARD-85-MX-6-003		
D-GLASS-x-85-MX-6-004 D-CARD-85-MX-6-004		



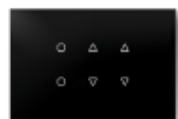
EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbance Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement

## Rectangular glasses 125 x 85



### GENERIC

Product code	N installation	Z installation
D-GLASS-x-125-SL-1 D-CARD-125-SL-1		
D-GLASS-x-125-SL-2 D-CARD-125-SL-2		
D-GLASS-x-125-SL-3 D-CARD-125-SL-3		
D-GLASS-x-125-SL-4 D-CARD-125-SL-4		
D-GLASS-x-125-SL-5 D-CARD-125-SL-5		
D-GLASS-x-125-SL-6 D-CARD-125-SL-6		
D-GLASS-x-125-SL-9D D-CARD-x-125-SL-9		

### MOTORS

Product code	N installation	Z installation
D-GLASS-x-125-SM-1A D-CARD-125-SM-1A		
D-GLASS-x-125-SM-1B D-CARD-125-SM-1B		
D-GLASS-x-125-SM-2A D-CARD-125-SM-2A		
D-GLASS-x-125-SM-2B D-CARD-125-SM-2B		
D-GLASS-x-125-SM-3A D-CARD-125-SM-3A		

### MIXTE

Product code	N installation	Z installation
D-GLASS-x-125-MX-3-001 D-CARD-125-MX-3-001		
D-GLASS-x-125-MX-3-002 D-CARD-125-MX-3-002		
D-GLASS-x-125-MX-4-001 D-CARD-125-MX-4-001		
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D-GLASS-x-125-MX-5-003 D-CARD-125-MX-5-003		
D-GLASS-x-125-MX-5-004 D-CARD-125-MX-5-004		
D-GLASS-x-125-MX-6-001 D-CARD-125-MX-6-001		
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D-GLASS-x-125-MX-9-005 D-CARD-125-MX-9-005		
D-GLASS-x-125-MX-9-006 D-CARD-125-MX-9-006		

## Paramètres ETS :

### Tatto > Overview

Parameter	Values	Description
Device model	<ul style="list-style-type: none"> <li>KP-125</li> <li>KP-125-T</li> <li>KP-125-TH (default)</li> </ul>	<p>Specific device sub-model to configure</p> <ul style="list-style-type: none"> <li><b>KP-125-T</b>: this model has a temperature sensor on board, which enables the configuration of a main zone for the thermostat controller</li> <li><b>KP-125-TH</b>: this model has a temperature and humidity sensor on board, which enables the configuration of a main zone for both the thermostat and the humidistat controllers</li> </ul>

### Tatto > Tatto

Parameter	Values	Description
Wall backlight	<ul style="list-style-type: none"> <li>Off</li> <li>On</li> <li>Enable object</li> <li>Auto (default)</li> </ul>	<p>Behaviour of the device wall/frame backlight</p> <ul style="list-style-type: none"> <li><b>On or Off</b>: the wall backlight will always be fixed and non controllable</li> <li><b>Enable object</b>: enables two group objects to send the commands and read the state of the wall backlight</li> <li><b>Auto</b>: the wall backlight will automatically turn on when the user interacts with the device, and then turn off after the specified delay</li> </ul>
Wall backlight turn off delay	<ul style="list-style-type: none"> <li>Minimum: 1</li> <li>Maximum: 60</li> <li>Step: 1</li> <li>Default: 30</li> </ul>	Automatic wall backlight turn off delay after last interaction with the device (in seconds)
Buzzer	<ul style="list-style-type: none"> <li>Off (default)</li> <li>On</li> <li>Enable object</li> </ul>	<p>Buzzer sound when interacting with the device</p> <ul style="list-style-type: none"> <li><b>On or Off</b>: the buzzer will always be fixed and non controllable</li> <li><b>Enable object</b>: enables two group objects to send the commands and read the state of the buzzer</li> </ul>
Night mode	<ul style="list-style-type: none"> <li>Off</li> <li>On</li> <li>Enable object (default)</li> </ul>	<p>Wall and plate backlights are turned off in night mode</p> <ul style="list-style-type: none"> <li><b>On or Off</b>: the night mode will always be fixed and non controllable</li> <li><b>Enable object</b>: enables two group objects to send the commands and read the state of the night mode</li> </ul>
Touch & go	<ul style="list-style-type: none"> <li>No delay</li> <li>100ms</li> <li>200ms</li> <li>300ms (default)</li> <li>400ms</li> <li>500ms</li> </ul>	<p>Delay before allowing interactions with the device after waking up during night mode (in milliseconds)</p> <p>This delay is useful for letting the user turn on the panel during night mode before triggering any command</p>



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Parameter	Values	Description
Proximity	<ul style="list-style-type: none"> <li>Off</li> <li>On <i>(default)</i></li> <li>Enable object</li> </ul>	<p>Detect and react to hands proximity to the device</p> <ul style="list-style-type: none"> <li><b>On or Off:</b> the proximity detection will always be fixed and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the commands and read the state of the proximity detection</li> </ul>
Brightness	<ul style="list-style-type: none"> <li>Fixed</li> <li>Enable object <i>(default)</i></li> </ul>	<p>Behaviour of the device general brightness (panel and wall backlight)</p> <ul style="list-style-type: none"> <li><b>Fixed:</b> the brightness will always be fixed at a specified value and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the values and read the state of the brightness</li> </ul>
Brightness value	<ul style="list-style-type: none"> <li><i>Minimum:</i> 1</li> <li><i>Maximum:</i> 8</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 5</li> </ul>	Device general brightness fixed value
Party mode	<ul style="list-style-type: none"> <li>Disable <i>(default)</i></li> <li>Enable object</li> </ul>	<p>Behaviour of party mode (device interaction lock)</p> <ul style="list-style-type: none"> <li><b>Disable:</b> the party mode will always be disabled and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the commands and read the state of the party mode</li> </ul>
Alarm	<ul style="list-style-type: none"> <li>Disable <i>(default)</i></li> <li>Enable object</li> </ul>	<p>Behaviour of device alarm</p> <ul style="list-style-type: none"> <li><b>Disable:</b> the alarm will always be disabled and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the commands and read the state of the alarm</li> </ul>
Finger follow	<ul style="list-style-type: none"> <li>Disable</li> <li>Enable <i>(default)</i></li> </ul>	Feedback with LEDs when keys are pressed

## Keypad > General

Parameter	Values	Description
Mounting mode	<ul style="list-style-type: none"> <li>None <i>(default)</i></li> <li>None</li> </ul>	Device installation orientation on the wall
Keypad layout	<ul style="list-style-type: none"> <li>1 key</li> <li>2 keys</li> <li>3 keys</li> <li>4 keys</li> <li>5 keys</li> <li>6 keys</li> <li>9 keys <i>(default)</i></li> </ul>	Configuration of number and position of the active keys on the keypad

## Keypad > Key [1-9] / Multipress / External [1-2]

Parameter	Values	Description
Key LED	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable object</li> </ul>	<p>Behaviour of the key LED</p> <ul style="list-style-type: none"> <li><b>Disable:</b> the LED will always be off and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the commands and read the state of the LED</li> </ul>
Key blinking LED	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable object</li> </ul>	<p>Behaviour of the key blinking LED</p> <ul style="list-style-type: none"> <li><b>Disable:</b> the blinking LED will always be off and non controllable</li> <li><b>Enable object:</b> enables two group objects to send the commands and read the state of the blinking LED</li> </ul>
Long press delay	<ul style="list-style-type: none"> <li>0.5s (<i>default</i>)</li> <li>1s</li> <li>2s</li> <li>3s</li> <li>4s</li> </ul>	<p>Delay during pressure before triggering the long press actions (in seconds)</p>
Long press repetitions	<ul style="list-style-type: none"> <li><i>Minimum:</i> 1</li> <li><i>Maximum:</i> 10</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 2</li> </ul>	<p>Number of long press action telegrams sent every second (useful for relative dimming commands)</p>
Number of functions	<ul style="list-style-type: none"> <li><i>Minimum:</i> 1</li> <li><i>Maximum:</i> 3</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 1</li> </ul>	<p>Number of independent functions activated by the key</p>
Function type	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Switch</li> <li>Dimming</li> <li>Blind</li> <li>Custom</li> </ul>	<p>Type of actions activated by the key for this function (configurable for each key pressure type)</p> <ul style="list-style-type: none"> <li><b>Disable:</b> function not configured</li> <li><b>Switch:</b> the key can activate <i>On</i>, <i>Off</i> and toggle actions for this function</li> <li><b>Dimming:</b> the key can activate absolute and relative dimming actions for this function</li> <li><b>Blind:</b> the key can activate <i>Up</i>, <i>Down</i>, <i>Stop</i> and absolute position actions for this function</li> <li><b>Custom:</b> the key can send custom commands for this function (<i>1 bit, 1 byte unsigned, 1 byte signed, 2 bytes unsigned, 2 bytes signed</i>)</li> </ul>
Short press action	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>On</li> <li>Off</li> <li>Toggle</li> </ul>	<p>Action activated by the key short press for this function</p> <ul style="list-style-type: none"> <li><b>Disable:</b> No action</li> <li><b>On or Off:</b> enables a group object to send the switch command</li> <li><b>Toggle:</b> enables a group object to send the switch command and another (called <i>notify</i>) for the detection of the changing state of the device to toggle</li> </ul>

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Parameter	Values	Description
Short press action	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Absolute dimming</li> <li>• Relative dimming</li> </ul>	<p>Action activated by the key short press for this function</p> <ul style="list-style-type: none"> <li>• <b>Disable</b>: No action</li> <li>• <b>Absolute dimming</b>: enables a group object to send the specified absolute dimming value</li> <li>• <b>Relative dimming</b>: enables a group object to send the specified relative dimming value</li> </ul>
Dim to	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 0</li> <li>• <i>Maximum</i>: 100</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 50</li> </ul>	Absolute dimming value to send (percentage)
Dimming step	<ul style="list-style-type: none"> <li>• -100%</li> <li>• -50%</li> <li>• -25%</li> <li>• -12%</li> <li>• -6%</li> <li>• -3%</li> <li>• -1%</li> <li>• +1%</li> <li>• +3%</li> <li>• +6%</li> <li>• +12%</li> <li>• +25% (<i>default</i>)</li> <li>• +50%</li> <li>• +100%</li> </ul>	Relative dimming value to send (percentage step)
Short press action	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Up</li> <li>• Down</li> <li>• Stop</li> <li>• Position</li> <li>• Slats up</li> <li>• Slats down</li> </ul>	<p>Action activated by the key short press for this function</p> <ul style="list-style-type: none"> <li>• <b>Disable</b>: No action</li> <li>• <b>Up</b> or <b>Down</b>: enables a group object to send the movement command</li> <li>• <b>Stop</b>: enables a group object to send the <i>Stop</i> command</li> <li>• <b>Position</b>: enables a group object to send the specified absolute position value</li> <li>• <b>Slats up</b> or <b>Slats down</b>: enables a group object to send the slats movement command</li> </ul>
Position	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 0</li> <li>• <i>Maximum</i>: 100</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 50</li> </ul>	Absolute position value to send (percentage)
Short press action	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• 1 bit</li> <li>• 1 byte unsigned</li> <li>• 1 byte signed</li> <li>• 2 bytes unsigned</li> </ul>	<p>Action activated by the key short press for this function</p> <ul style="list-style-type: none"> <li>• <b>Disable</b>: No action</li> <li>• <b>1 bit</b>: enables a group object to send the specified <i>bit</i> value</li> <li>• <b>1 byte unsigned</b>: enables a group object to send the specified <i>uint8</i> value</li> </ul>



Parameter	Values	Description
	<ul style="list-style-type: none"> <li>• 2 bytes signed</li> </ul>	<ul style="list-style-type: none"> <li>• <b>1 byte signed</b>: enables a group object to send the specified <i>sint8</i> value</li> <li>• <b>2 bytes unsigned</b>: enables a group object to send the specified <i>uint16</i> value</li> <li>• <b>2 bytes signed</b>: enables a group object to send the specified <i>sint16</i> value</li> </ul>
Value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 0</li> <li>• <i>Maximum</i>: 1</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 0</li> </ul>	<i>bit</i> value to send
Value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 0</li> <li>• <i>Maximum</i>: 255</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 0</li> </ul>	<i>uint8</i> value to send
Value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: -128</li> <li>• <i>Maximum</i>: 127</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 0</li> </ul>	<i>sint8</i> value to send
Value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 0</li> <li>• <i>Maximum</i>: 65535</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 0</li> </ul>	<i>uint16</i> value to send
Value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: -32768</li> <li>• <i>Maximum</i>: 32767</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 0</li> </ul>	<i>sint16</i> value to send

## Thermostat [Main-Aux] > General

Parameter	Values	Description
Thermostat	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	Enables the main zone of the thermostat controller
Setpoint mode	<ul style="list-style-type: none"> <li>• Smart mode (<i>default</i>)</li> <li>• HVAC mode</li> </ul>	<p>The setpoint mode used to control the thermostat</p> <ul style="list-style-type: none"> <li>• <b>Smart mode</b>: enables two group objects to send the values and read the state of the actual setpoint</li> <li>• <b>HVAC mode</b>: enables two group objects to send the values and read the state of the actual setpoint and each HVAC mode setpoint per season</li> </ul>

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Parameter	Values	Description
Automatic season change	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable</li> </ul>	Enables the automatic season change when the specified threshold is reached
Season change threshold	<ul style="list-style-type: none"> <li><i>Minimum: 2</i></li> <li><i>Maximum: 8</i></li> <li><i>Step: 1</i></li> <li><i>Default: 2</i></li> </ul>	Threshold used to automatically change the season (in Celsius)
Plant type	<ul style="list-style-type: none"> <li>Two pipes (<i>default</i>)</li> <li>Four pipes</li> <li>Four pipes with six-ways valve</li> </ul>	<p>Thermohydraulic system type to control</p> <ul style="list-style-type: none"> <li><b>Two pipes:</b> the system uses a single valve and two pipes for the supply and return of both chilled and hot water</li> <li><b>Four pipes:</b> the system uses two different valves and four pipes for the supply and return of chilled and hot water</li> <li><b>Four pipes with six-ways valve:</b> the system uses a single <i>six-ways valve</i> and four pipes for the supply and return of chilled and hot water</li> </ul>
Control algorithm	<ul style="list-style-type: none"> <li>On/Off (<i>default</i>)</li> <li>Proportional</li> </ul>	<p>Type of algorithm used to control the valve</p> <ul style="list-style-type: none"> <li><b>On/Off:</b> enables a group object used to send the commands to the valve depending on the specified <i>On/Off</i> algorithm</li> <li><b>Proportional:</b> the thermostat will apply a proportional algorithm depending on the specified type of valve to control (<i>Percentage</i>, <i>PWM</i> or <i>Fancoil</i>)</li> </ul>
On/Off algorithm	<ul style="list-style-type: none"> <li>Classic On/Off</li> <li>Smart On/Off (<i>default</i>)</li> </ul>	<p>Type of <i>On/Off</i> algorithm used to control the valve</p> <ul style="list-style-type: none"> <li><b>Classic On/Off:</b> the "classic" <i>On/Off</i> algorithm with thermal differential (hysteresis)</li> <li><b>Smart On/Off:</b> smart <i>On/Off</i> algorithm with thermal differential (hysteresis) which monitors the direction of the temperature curve and anticipates the opening and closing of the valve, avoiding undesired temperature peaks and saving energy</li> </ul>
Proportional algorithm	<ul style="list-style-type: none"> <li>Percentage (<i>default</i>)</li> <li>PWM</li> <li>Fancoil</li> </ul>	<p>Type of <i>Proportional</i> algorithm used to control the valve</p> <ul style="list-style-type: none"> <li><b>Percentage:</b> enables a group object depending on the specified driving type used to control the <i>Percentage</i> valve</li> <li><b>PWM:</b> enables a group object to send commands to the <i>PWM</i> valve in relation to the specified period and another to read the "virtual" state of the percentage valve</li> <li><b>Fancoil:</b> enables the group objects to send commands to the <i>Fancoil</i> valve and to control its speeds</li> </ul>
Directly drive valve (0-10V)	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable</li> </ul>	Directly drive the percentage valve using the device 0-10V output

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Parameter	Values	Description
		<ul style="list-style-type: none"> <li>• <b>Disable:</b> enables a group object to send the percentage values to the valve</li> <li>• <b>Enable:</b> enables the device 0-10V output to directly drive the valve and enables a group object to read the percentage value used to drive it</li> </ul>
PWM period	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 5</li> <li>• <i>Maximum:</i> 60</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 10</li> </ul>	Period of time used to proportionally control the PWM valve (in minutes)
A and B ranges	<ul style="list-style-type: none"> <li>• A: cold, B: hot (<i>default</i>)</li> <li>• A: hot, B: cold</li> </ul>	
A_max.	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 25</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 10</li> </ul>	
A_min.	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 25</li> <li>• <i>Maximum:</i> 50</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 40</li> </ul>	
B_min.	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 50</li> <li>• <i>Maximum:</i> 75</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 60</li> </ul>	
B_max.	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 75</li> <li>• <i>Maximum:</i> 100</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 90</li> </ul>	
Directly drive valve (0-10V)	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	<p>Directly drive the six-ways valve using the device 0-10V output</p> <ul style="list-style-type: none"> <li>• <b>Disable:</b> enables a group object to send the values to the six-ways valve and another to read the "virtual" valve opening percentage</li> <li>• <b>Enable:</b> enables the device 0-10V output to directly drive the valve and enables a group object to read the "virtual" valve opening percentage</li> </ul>

## Thermostat [Main-Aux] > Temperature

Parameter	Values	Description
Temperature sensor	<ul style="list-style-type: none"> <li>• Internal (<i>default</i>)</li> <li>• External</li> <li>• Average</li> </ul>	<p>Sensor used to measure the temperature</p> <ul style="list-style-type: none"> <li>• <b>Internal:</b> only uses the device internal temperature sensor</li> </ul>

Parameter	Values	Description
		<ul style="list-style-type: none"> <li>• <b>External:</b> only uses the external temperature sensor connected to the device</li> <li>• <b>Average:</b> calculates the average of both temperature sensors measured values using the specified weights</li> </ul>
Sensors weights	<ul style="list-style-type: none"> <li>• 90% internal, 10% external</li> <li>• 80% internal, 20% external</li> <li>• 70% internal, 30% external</li> <li>• 60% internal, 40% external</li> <li>• 50% internal, 50% external (<i>default</i>)</li> <li>• 40% internal, 60% external</li> <li>• 30% internal, 70% external</li> <li>• 20% internal, 80% external</li> <li>• 10% internal, 90% external</li> </ul>	Weights used to calculate the average value of both temperature sensors measures (percentages)
Offset value	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> -50</li> <li>• <i>Maximum:</i> 50</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 0</li> </ul>	Offset value used to adjust the final temperature measure (tenths of degree Celsius)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 50</li> <li>• <i>Step:</i> 5</li> <li>• <i>Default:</i> 5</li> </ul>	<p>Minimum variation value before sending the new measured temperature value (tenths of degree Celsius)</p> <p>When set to 0, the group object won't send any new temperature measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 60</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 20</li> </ul>	<p>Time delay before cyclically send the last measured temperature value (in minutes)</p> <p>When set to 0, the group object won't send any new temperature measure cyclically over time, but will still respond to <i>read</i> requests</p>

## Thermostat [Main-Aux] > Setpoint

Parameter	Values	Description
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 60</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 20</li> </ul>	<p>Time delay before cyclically send the current actual setpoint value (in minutes)</p> <p>When set to 0, the group object won't send the setpoint value cyclically over time, but will still send it on change and respond to <i>read</i> requests</p>



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Parameter	Values	Description
Thermal differential	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 2</li> <li>• <i>Maximum:</i> 125</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 5</li> </ul>	<p>Thermal differential (hysteresis) used by the thermostat control algorithm (tenths of degree Celsius)</p> <p>This value should be set depending on the thermal inertia of the system/building</p>
Minimum setpoint	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 20</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 5</li> </ul>	Minimum settable setpoint value (degrees Celsius)
Maximum setpoint	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 20</li> <li>• <i>Maximum:</i> 40</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 35</li> </ul>	Maximum settable setpoint value (degrees Celsius)

## Humidistat [Main-Aux] > General

Parameter	Values	Description
Humidistat	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	Enables the main zone of the humidistat controller
Plant type	<ul style="list-style-type: none"> <li>• Two pipes (<i>default</i>)</li> <li>• Four pipes</li> </ul>	

## Humidistat [Main-Aux] > General

Parameter	Values	Description
Humidity sensor	<ul style="list-style-type: none"> <li>• Internal (<i>default</i>)</li> </ul>	<p>Sensor used to measure the humidity</p> <ul style="list-style-type: none"> <li>• <b>Internal:</b> only uses the device internal humidity sensor</li> </ul> <p>The <i>External</i> and <i>Average</i> options are currently not available because the I/O 2 of the device is already used to drive a 0-10V valve</p>
Humidity sensor	<ul style="list-style-type: none"> <li>• Internal (<i>default</i>)</li> <li>• External</li> <li>• Average</li> </ul>	<p>Sensor used to measure the humidity</p> <ul style="list-style-type: none"> <li>• <b>Internal:</b> only uses the device internal humidity sensor</li> <li>• <b>External:</b> only uses the external humidity sensor connected to the device</li> <li>• <b>Average:</b> calculates the average of both humidity sensors measured values using the specified weights</li> </ul>

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Parameter	Values	Description
Sensors weights	<ul style="list-style-type: none"> <li>• 90% internal, 10% external</li> <li>• 80% internal, 20% external</li> <li>• 70% internal, 30% external</li> <li>• 60% internal, 40% external</li> <li>• 50% internal, 50% external (<i>default</i>)</li> <li>• 40% internal, 60% external</li> <li>• 30% internal, 70% external</li> <li>• 20% internal, 80% external</li> <li>• 10% internal, 90% external</li> </ul>	Weights used to calculate the average value of both humidity sensors measures (percentages)
Offset value	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> -20</li> <li>• <i>Maximum:</i> 20</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 0</li> </ul>	Offset value used to adjust the final humidity measure (relative humidity percentage)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 20</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 2</li> </ul>	<p>Minimum variation value before sending the new measured humidity value (relative humidity percentage)</p> <p>When set to 0, the group object won't send any new humidity measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 60</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 20</li> </ul>	<p>Time delay before cyclically send the last measured humidity value (in minutes)</p> <p>When set to 0, the group object won't send any new humidity measure cyclically over time, but will still respond to <i>read</i> requests</p>

## Humidistat [Main-Aux] > Setpoint

Parameter	Values	Description
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 0</li> <li>• <i>Maximum:</i> 60</li> <li>• <i>Step:</i> 1</li> <li>• <i>Default:</i> 20</li> </ul>	<p>Time delay before cyclically send the current setpoint value (in minutes)</p> <p>When set to 0, the group object won't send the setpoint value cyclically over time, but will still send it on change and respond to <i>read</i> requests</p>
Humidity differential	<ul style="list-style-type: none"> <li>• <i>Minimum:</i> 5</li> <li>• <i>Maximum:</i> 30</li> <li>• <i>Step:</i> 1</li> </ul>	Humidity differential (hysteresis) used by the humidistat control algorithm (relative humidity percentage)

Parameter	Values	Description
	<ul style="list-style-type: none"> <li>• <i>Default: 5</i></li> </ul>	
Minimum setpoint	<ul style="list-style-type: none"> <li>• <i>Minimum: 0</i></li> <li>• <i>Maximum: 100</i></li> <li>• <i>Step: 1</i></li> <li>• <i>Default: 0</i></li> </ul>	Minimum settable setpoint value (relative humidity percentage)
Maximum setpoint	<ul style="list-style-type: none"> <li>• <i>Minimum: 0</i></li> <li>• <i>Maximum: 100</i></li> <li>• <i>Step: 1</i></li> <li>• <i>Default: 100</i></li> </ul>	Maximum settable setpoint value (relative humidity percentage)

## External I/O > Input 1

Parameter	Values	Description
Input type	<ul style="list-style-type: none"> <li>• Temperature sensor (<i>default</i>)</li> </ul>	<p>Type of device connected to the <i>Input 1</i></p> <p>The other input options are currently not available because this input is already used as a temperature sensor probe for the thermostat controller main zone</p>
Input type	<ul style="list-style-type: none"> <li>• <i>Disable (default)</i></li> <li>• Switch</li> <li>• Door/window sensor</li> <li>• Temperature sensor</li> <li>• Screed sensor</li> </ul>	<p>Type of device connected to the <i>Input 1</i></p> <ul style="list-style-type: none"> <li>• <b>Disable:</b> no device connected</li> <li>• <b>Switch:</b> enables an extra <i>key</i> tab to configure the behaviour of the external switch connected to the device</li> <li>• <b>Door/window sensor:</b> a contact sensor is connected to the device and can be also used to automatically standby the thermostat controller main zone<sup>1</sup></li> <li>• <b>Temperature sensor:</b> a temperature sensor probe is connected to the device and can also be used to enable the thermostat controller auxiliar zone</li> <li>• <b>Screed sensor:</b> a screed/floor temperature sensor probe is connected to the device and can also be used to calculate the dew point temperature of the system<sup>2</sup></li> </ul> <p><sup>1</sup> Only available for the <i>KP-125-T</i> and <i>KP-125-TH</i> models</p> <p><sup>2</sup> Only available for the <i>KP-125-TH</i> model</p>
Contact type	<ul style="list-style-type: none"> <li>• Normally open (<i>default</i>)</li> <li>• Normally closed</li> </ul>	The contact type of the external switch on a normal state
Contact type	<ul style="list-style-type: none"> <li>• Normally open</li> <li>• Normally closed (<i>default</i>)</li> </ul>	The contact type of the door/window sensor on a normal state

# DO-KP-xxx-KNX

Parameter	Values	Description
Auto standby thermostat	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable</li> </ul>	Automatically standby the thermostat controller main zone when the door/window is open for the specified amount time
Standby delay	<ul style="list-style-type: none"> <li><i>Minimum</i>: 0</li> <li><i>Maximum</i>: 10</li> <li><i>Step</i>: 1</li> <li><i>Default</i>: 3</li> </ul>	Delay before automatically standby the thermostat controller main zone when the door/window is open (in minutes)
Enable aux thermostat	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable</li> </ul>	Enables the auxiliar zone of the thermostat controller
Offset value	<ul style="list-style-type: none"> <li><i>Minimum</i>: -50</li> <li><i>Maximum</i>: 50</li> <li><i>Step</i>: 1</li> <li><i>Default</i>: 0</li> </ul>	Offset value used to adjust the final temperature measure (tenths of degree Celsius)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum</i>: 0</li> <li><i>Maximum</i>: 50</li> <li><i>Step</i>: 5</li> <li><i>Default</i>: 5</li> </ul>	<p>Minimum variation value before sending the new measured temperature value (tenths of degree Celsius)</p> <p>When set to 0, the group object won't send any new temperature measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum</i>: 0</li> <li><i>Maximum</i>: 60</li> <li><i>Step</i>: 1</li> <li><i>Default</i>: 20</li> </ul>	<p>Time delay before cyclically send the last measured temperature value (in minutes)</p> <p>When set to 0, the group object won't send any new temperature measure cyclically over time, but will still respond to <i>read</i> requests</p>
Offset value	<ul style="list-style-type: none"> <li><i>Minimum</i>: -50</li> <li><i>Maximum</i>: 50</li> <li><i>Step</i>: 1</li> <li><i>Default</i>: 0</li> </ul>	Offset value used to adjust the final temperature measure (tenths of degree Celsius)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum</i>: 0</li> <li><i>Maximum</i>: 50</li> <li><i>Step</i>: 5</li> <li><i>Default</i>: 5</li> </ul>	<p>Minimum variation value before sending the new measured temperature value (tenths of degree Celsius)</p> <p>When set to 0, the group object won't send any new temperature measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum</i>: 0</li> <li><i>Maximum</i>: 60</li> <li><i>Step</i>: 1</li> <li><i>Default</i>: 20</li> </ul>	<p>Time delay before cyclically send the last measured temperature value (in minutes)</p> <p>When set to 0, the group object won't send any new temperature measure cyclically over time, but will still respond to <i>read</i> requests</p>
Dew point	<ul style="list-style-type: none"> <li>Disable (<i>default</i>)</li> <li>Enable</li> </ul>	Enables the calculation of the dew point temperature of the system, which can also be used to automatically standby the thermostat controller main zone cooling and/or to force the humidistat controller main zone dehumidification



## DO-KP-xxx-KNX

Parameter	Values	Description
Thermal differential	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: 2</li> <li>• <i>Maximum</i>: 125</li> <li>• <i>Step</i>: 1</li> <li>• <i>Default</i>: 5</li> </ul>	Thermal differential (hysteresis) used by the dew point calculation algorithm (tenths of degree Celsius)
Auto standby cooling	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	Automatically standby the thermostat controller main zone cooling when the dew point temperature is reached
Force main dehumidification	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	Force the humidistat controller main zone dehumidification when the dew point temperature is reached

## External I/O > I/O 2

Parameter	Values	Description
Output type	<ul style="list-style-type: none"> <li>• Drive valve (<i>default</i>)</li> </ul>	<p>Type of device connected to the I/O 2</p> <p>The other input options are currently not available because this I/O is already used to drive a 0-10V valve</p>
Input type	<ul style="list-style-type: none"> <li>• Humidity sensor (<i>default</i>)</li> </ul>	<p>Type of device connected to the I/O 2</p> <p>The other input options are currently not available because this I/O is already used as a humidity sensor probe for the humidistat controller main zone</p>
I/O type	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Switch</li> <li>• Humidity sensor</li> <li>• Brightness sensor</li> <li>• Generic sensor</li> </ul>	<p>Type of device connected to the I/O 2</p> <ul style="list-style-type: none"> <li>• <b>Disable</b>: no device connected</li> <li>• <b>Switch</b>: enables an extra key tab to configure the behaviour of the external switch connected to the device</li> <li>• <b>Humidity sensor</b>: a humidity sensor probe is connected to the device and can also be used to enable the humidistat controller auxiliary zone</li> <li>• <b>Brightness sensor</b>: a brightness sensor is connected to the device and can also be used to enable the brightness follow controller</li> <li>• <b>Generic sensor</b>: a generic sensor is connected to the device (can be either active or passive and be compatible with the 0-5V or 0-10V standards)</li> </ul>
Contact type	<ul style="list-style-type: none"> <li>• Normally open (<i>default</i>)</li> <li>• Normally closed</li> </ul>	The contact type of the external switch on a normal state
Enable aux humidistat	<ul style="list-style-type: none"> <li>• Disable (<i>default</i>)</li> <li>• Enable</li> </ul>	Enables the auxiliary zone of the humidistat controller
Offset value	<ul style="list-style-type: none"> <li>• <i>Minimum</i>: -20</li> </ul>	Offset value used to adjust the final humidity measure (relative humidity percentage)

# DO-KP-xxx-KNX

Parameter	Values	Description
	<ul style="list-style-type: none"> <li>Maximum: 20</li> <li>Step: 1</li> <li>Default: 0</li> </ul>	
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li>Minimum: 0</li> <li>Maximum: 20</li> <li>Step: 1</li> <li>Default: 2</li> </ul>	<p>Minimum variation value before sending the new measured humidity value (relative humidity percentage)</p> <p>When set to 0, the group object won't send any new humidity measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>Minimum: 0</li> <li>Maximum: 60</li> <li>Step: 1</li> <li>Default: 20</li> </ul>	<p>Time delay before cyclically send the last measured humidity value (in minutes)</p> <p>When set to 0, the group object won't send any new humidity measure cyclically over time, but will still respond to <i>read</i> requests</p>
Brightness follow	<ul style="list-style-type: none"> <li>Disable</li> <li>Enable (default)</li> </ul>	Enables the brightness follow controller
Brightness value source	<ul style="list-style-type: none"> <li>Sensor (default)</li> <li>Bus</li> </ul>	<p>Source of the brightness measured value</p> <ul style="list-style-type: none"> <li><b>Sensor</b>: uses the connected brightness sensor and enables a group object to read the measured brightness value</li> <li><b>Bus</b>: enables a group object for the external brightness sensor to send the measured brightness value</li> </ul>
Offset value	<ul style="list-style-type: none"> <li>Minimum: -50</li> <li>Maximum: 50</li> <li>Step: 1</li> <li>Default: 0</li> </ul>	Offset value used to adjust the final brightness measure (lux)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li>Minimum: 0</li> <li>Maximum: 50</li> <li>Step: 1</li> <li>Default: 10</li> </ul>	<p>Minimum variation value before sending the new measured brightness value (lux)</p> <p>When set to 0, the group object won't send any new brightness measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li>Minimum: 0</li> <li>Maximum: 60</li> <li>Step: 1</li> <li>Default: 20</li> </ul>	<p>Time delay before cyclically send the last measured brightness value (in minutes)</p> <p>When set to 0, the group object won't send any new brightness measure cyclically over time, but will still respond to <i>read</i> requests</p>
Sensor standard	<ul style="list-style-type: none"> <li>0-5V</li> <li>0-10V (default)</li> </ul>	Standard used by the generic sensor connected to the device
Sensor type	<ul style="list-style-type: none"> <li>Passive (default)</li> <li>Active</li> </ul>	Type of power supply needed by the generic sensor connected to the device

# DO-KP-xxx-KNX

Parameter	Values	Description
Power source	<ul style="list-style-type: none"> <li>External (<i>default</i>)</li> <li>Device</li> </ul>	<p>Power supply source for the generic sensor</p> <ul style="list-style-type: none"> <li><b>External:</b> the sensor uses an external power supply source</li> <li><b>Device:</b> the power will be supplied by the device from the <i>Vout</i> pin</li> </ul>
Offset value	<ul style="list-style-type: none"> <li><i>Minimum:</i> -10</li> <li><i>Maximum:</i> 10</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 0</li> </ul>	Offset value used to adjust the final measure (percentage)
Send on change (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum:</i> 0</li> <li><i>Maximum:</i> 20</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 5</li> </ul>	<p>Minimum variation value before sending the new measured value (percentage)</p> <p>When set to 0, the group object won't send any new measure depending on its variation, but will still respond to <i>read</i> requests</p>
Send cyclically (0 = inactive)	<ul style="list-style-type: none"> <li><i>Minimum:</i> 0</li> <li><i>Maximum:</i> 60</li> <li><i>Step:</i> 1</li> <li><i>Default:</i> 20</li> </ul>	<p>Time delay before cyclically send the last measured value (in minutes)</p> <p>When set to 0, the group object won't send any new measure cyclically over time, but will still respond to <i>read</i> requests</p>

**DO-KP-xxx-KNX**

## CHANNEL\_TATTO

Name	Function	R	W	T	U	I	DPT	Length
Wall backlight	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Wall backlight state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Buzzer	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Buzzer state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Night mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Night mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Panel touch state	Detected value	R	-	T	-	-	1.001 (Switch)	1 bit
Proximity detection	Detected value	R	-	T	-	-	1.001 (Switch)	1 bit
Proximity	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Proximity state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Brightness	Set value	-	W	-	-	-	5.004 (Percent U8)	1 byte
Brightness state	Value state	R	-	T	-	-	5.004 (Percent U8)	1 byte
Party mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Party mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Alarm	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Alarm state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit

## CHANNEL\_KEYPAD

Name	Function	R	W	T	U	I	DPT	Length
LED key 1	On/Off	-	W	T	U	I	1.001 (Switch)	1 bit
LED key 1 state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
LED blinking key 1	On/Off	-	W	T	U	I	1.001 (Switch)	1 bit



# DO-KP-xxx-KNX

Name	Function	R	W	T	U	I	DPT	Length
LED blinking key 1 state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Key 1 function A switch	Command	-	W	T	-	-	1.001 (Switch)	1 bit
Key 1 function A notification	Detect state	-	W	T	U	I	1.001 (Switch)	1 bit
Key 1 function A absolute dimming	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A relative dimming	Command	-	-	T	-	-	3.007 (Control Dimming)	4 bits
Key 1 function A movement	Command	-	-	T	-	-	1.008 (UpDown)	1 bit
Key 1 function A stop	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Key 1 function A position	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A slats	Command	-	-	T	-	-	1.008 (UpDown)	1 bit
Key 1 function A customised 1 bit	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Key 1 function A customized 1 byte unsigned	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A customized 1 byte signed	Command	-	-	T	-	-	6.001 (Percent V8)	1 byte
Key 1 function A customised	Command	-	-	T	-	-	7.001 (Value 2 Ucount)	2 bytes

# DO-KP-xxx-KNX

Name	Function	R	W	T	U	I	DPT	Length
2 bytes unsigned								
Key 1 function A customised 2 bytes signed	Command	-	-	T	-	-	8.001 (Value 2 Count)	2 bytes

## CHANNEL\_MAIN\_THERMOSTAT

Name	Function	R	W	T	U	I	DPT	Length
Thermostat	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Thermostat state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Season	Set value	-	W	-	-	-	1.100 (Heat Cool)	1 bit
Season state	Value state	R	-	T	-	-	1.100 (Heat Cool)	1 bit
Actual setpoint	Set value	-	W	-	-	-	9.001 (Value Temp)	2 bytes
Actual setpoint state	Value state	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
HVAC mode	Set value	-	W	-	-	-	20.102 (HVACMode)	1 byte
HVAC mode state	Value state	R	-	T	-	-	20.102 (HVACMode)	1 byte
Cooling comfort setpoint	Set value	-	W	-	-	-	9.001 (Value Temp)	2 bytes
Cooling comfort setpoint state	Value state	R	-	T	-	-	9.001 (Value Temp)	2 bytes
On/Off valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Percentage valve	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Percentage valve state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte
PWM valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit

# DO-KP-xxx-KNX

Name	Function	R	W	T	U	I	DPT	Length
PWM percentage state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte
Fancoil valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Fancoil speed	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Fancoil speed 1	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Fancoil manual mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Fancoil manual mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Fancoil manual speed	Set value	-	W	-	-	-	5.001 (Scaling)	1 byte
Fancoil manual speed mode	Value state	R	-	T	-	-	5.001 (Scaling)	1 byte
Six-ways valve	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Six-ways valve state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte

## CHANNEL\_MAIN\_HUMIDISTAT

Name	Function	R	W	T	U	I	DPT	Length
Humidistat	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Humidistat state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Humidistat season	Set value	-	W	-	-	-	1.100 (Heat Cool)	1 bit
Humidistat season state	Value state	R	-	T	-	-	1.100 (Heat Cool)	1 bit
Humidity setpoint	Set value	-	W	-	-	-	9.007 (Value Humidity)	2 bytes
Humidity setpoint state	Value state	R	-	T	-	-	9.007 (Value Humidity)	2 bytes

## DO-KP-xxx-KNX

Name	Function	R	W	T	U	I	DPT	Length
Humidity	measured value	R	-	T	-	-	9.007 (Value Humidity)	2 bytes
Humidistat valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit

## CHANNEL\_INPUTS

Name	Function	R	W	T	U	I	DPT	Length
Door/window contact state	Measured value	R	-	T	-	-	1.009 (OpenClose)	1 bit
External probe temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Screed temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Dew point temperature	Calculated value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Reaching dew point	Calculated value	R	-	T	-	-	1.001 (Switch)	1 bit
External humidity probe	Measured value	R	-	T	-	-	9.007 (Value Humidity)	2 bytes
Measured brightness	Measured value	R	-	T	-	-	7.013 (Brightness)	2 bytes
Brightness tracker	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Brightness tracker state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Brightness value	Set value	-	W	T	U	I	7.013 (Brightness)	2 bytes
Desired brightness	Set value	-	W	-	-	-	7.013 (Brightness)	2 bytes
Desired brightness state	Value state	R	-	T	-	-	7.013 (Brightness)	2 bytes
Follow actual brightness	Trigger	-	W	-	-	-	1.001 (Switch)	1 bit
Dimmer brightness tracker	Command	-	-	T	-	-	3.007 (Control Dimming)	4 bits
Generic probe value	Measured value	R	-	T	-	-	5.001 (Scaling)	1 byte



## CHANNEL\_TATTO

Name	Function	R	W	T	U	I	DPT	Length
Wall backlight	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Wall backlight state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Buzzer	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Buzzer state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Night mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Night mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Panel touched state	Detected value	R	-	T	-	-	1.001 (Switch)	1 bit
Proximity detection	Detected value	R	-	T	-	-	1.001 (Switch)	1 bit
Proximity	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Proximity state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Brightness	Set value	-	W	-	-	-	5.004 (Percent U8)	1 byte
Brightness state	Value state	R	-	T	-	-	5.004 (Percent U8)	1 byte
Party mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Party mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Alarm	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Alarm state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit

## CHANNEL\_KEYPAD

Name	Function	R	W	T	U	I	DPT	Length
Key 1 LED	On/Off	-	W	T	U	I	1.001 (Switch)	1 bit
Key 1 LED state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Key 1 blinking LED	On/Off	-	W	T	U	I	1.001 (Switch)	1 bit
Key 1 blinking LED state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit

## DO-KP-xxx-KNX

Name	Function	R	W	T	U	I	DPT	Length
Key 1 function A switch	Command	-	W	T	-	-	1.001 (Switch)	1 bit
Key 1 function A notify	Detect state	-	W	T	U	I	1.001 (Switch)	1 bit
Key 1 function A absolute dimming	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A relative dimming	Command	-	-	T	-	-	3.007 (Control Dimming)	4 bits
Key 1 function A movement	Command	-	-	T	-	-	1.008 (UpDown)	1 bit
Key 1 function A stop	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Key 1 function A posizione	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A slats	Command	-	-	T	-	-	1.008 (UpDown)	1 bit
Key 1 function A custom 1 bit	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Key 1 function A custom 1 byte unsigned	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Key 1 function A custom 1 byte signed	Command	-	-	T	-	-	6.001 (Percent V8)	1 byte
Key 1 function A custom 2 bytes unsigned	Command	-	-	T	-	-	7.001 (Value 2 Ucount)	2 bytes
Key 1 function A custom 2 bytes signed	Command	-	-	T	-	-	8.001 (Value 2 Count)	2 bytes

## CHANNEL\_MAIN\_THERMOSTAT

Name	Function	R	W	T	U	I	DPT	Length
Thermostat	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Thermostat state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Season	Set value	-	W	-	-	-	1.100 (Heat Cool)	1 bit

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Name	Function	R	W	T	U	I	DPT	Length
Season state	Value state	R	-	T	-	-	1.100 (Heat Cool)	1 bit
Actual setpoint	Set value	-	W	-	-	-	9.001 (Value Temp)	2 bytes
Actual setpoint state	Value state	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
HVAC mode	Set value	-	W	-	-	-	20.102 (HVACMode)	1 byte
HVAC mode state	Value state	R	-	T	-	-	20.102 (HVACMode)	1 byte
Cooling comfort setpoint	Set value	-	W	-	-	-	9.001 (Value Temp)	2 bytes
Cooling comfort setpoint state	Value state	R	-	T	-	-	9.001 (Value Temp)	2 bytes
On/Off valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Percentage valve	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Percentage valve state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte
PWM valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit
PWM percentage state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte
Fancoil valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Fancoil speed	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Fancoil speed 1	Command	-	-	T	-	-	1.001 (Switch)	1 bit
Fancoil manual mode	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Fancoil manual mode state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Fancoil manual speed	Set value	-	W	-	-	-	5.001 (Scaling)	1 byte
Fancoil manual speed state	Value state	R	-	T	-	-	5.001 (Scaling)	1 byte

Name	Function	R	W	T	U	I	DPT	Length
Six-ways valve	Command	-	-	T	-	-	5.001 (Scaling)	1 byte
Six-ways valve state	Command state	R	-	T	-	-	5.001 (Scaling)	1 byte

## CHANNEL\_MAIN\_HUMIDISTAT

Name	Function	R	W	T	U	I	DPT	Length
Humidistat	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Humidistat state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Humidistat season	Set value	-	W	-	-	-	1.100 (Heat Cool)	1 bit
Humidistat season state	Value state	R	-	T	-	-	1.100 (Heat Cool)	1 bit
Humidity setpoint	Set value	-	W	-	-	-	9.007 (Value Humidity)	2 bytes
Humidity setpoint state	Value state	R	-	T	-	-	9.007 (Value Humidity)	2 bytes
Humidity	Measured value	R	-	T	-	-	9.007 (Value Humidity)	2 bytes
Humidistat valve	Command	-	-	T	-	-	1.001 (Switch)	1 bit

## CHANNEL\_INPUTS

Name	Function	R	W	T	U	I	DPT	Length
Door/window state	Detected value	R	-	T	-	-	1.009 (OpenClose)	1 bit
External sensor temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Screed temperature	Measured value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Dew point temperature	Calculated value	R	-	T	-	-	9.001 (Value Temp)	2 bytes
Dew point reached	Calculated value	R	-	T	-	-	1.001 (Switch)	1 bit
External sensor humidity	Measured value	R	-	T	-	-	9.007 (Value Humidity)	2 bytes



**DO-KP-xxx-KNX**

Name	Function	R	W	T	U	I	DPT	Length
Measured brightness	Measured value	R	-	T	-	-	7.013 (Brightness)	2 bytes
Brightness follow	On/Off	-	W	-	-	-	1.001 (Switch)	1 bit
Brightness follow state	On/Off state	R	-	T	-	-	1.001 (Switch)	1 bit
Brightness value	Set value	-	W	T	U	I	7.013 (Brightness)	2 bytes
Desired brightness	Set value	-	W	-	-	-	7.013 (Brightness)	2 bytes
Desired brightness state	Value state	R	-	T	-	-	7.013 (Brightness)	2 bytes
Follow current brightness	Trigger	-	W	-	-	-	1.001 (Switch)	1 bit
Brightness follow dimmer	Command	-	-	T	-	-	3.007 (Control Dimming)	4 bits
Generic sensor value	Measured value	R	-	T	-	-	5.001 (Scaling)	1 byte



EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013  
Information technology equipment. Radio disturbance Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015  
Information technology equipment. Safety. General requirement