

- Sentido -

Sentido is a highly innovative touch sensitive light switch. The entire switch is touch-sensitive, creating a very easy and unique way of control. Every surface controls different functions, but touching more than one surface at the same time turns on and off all the lights in a room using a scene. This multi-touch function makes light control

highly intuitive and user friendly. Besides lights, Sentido also can control blinds, scenes and HVAC. Sentido has a built-in temperature sensor, that discretely reports the room temperature to the home automation system. The integrated thermostat logic controls the heating and airconditioning of the room.

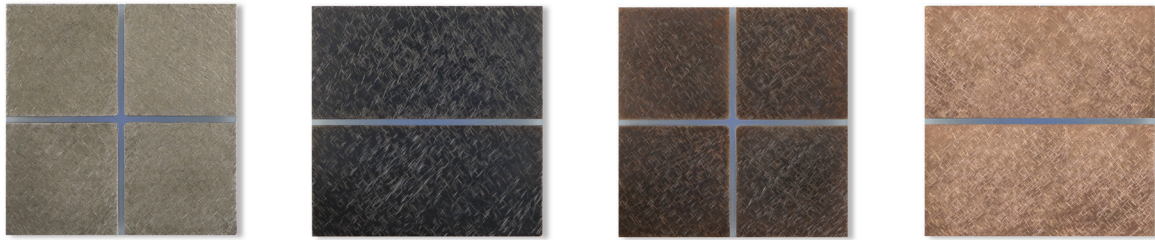
Sentido Aluminium



Sentido classic



Sentido fer forgé

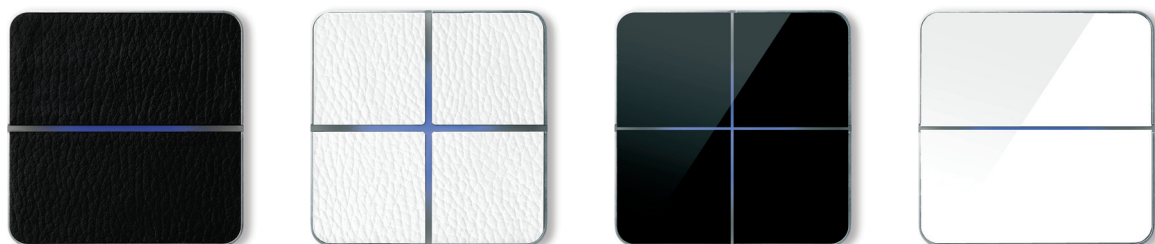


- Enzo -

Inspired by Italian design of the late fifties, **Enzo** combines retro with luxury based on craftsmanship and high quality materials. The fine rounded border is made of polished aluminium while the inlay can be leather or glass.

Despite its retro look, Enzo uses the latest technology and features highly sensitive touch sensors, multi-touch capability and temperature control.

Enzo classic



- Touch sensitive surfaces -

The separate touch sensitive surfaces can control the following functions:

- Switching with separate objects for short and long press
- Dimming
- Controlling blinds, curtains and motors
- A shift register. With each press a 1 byte object will have a different value, a long press will reset the shift register
- Controlling scenes with different scene numbers for short and long press
- Sending a 1 byte value with different values for short and long press
- Sending a 2 byte value with different values for short and long press
- Sending a colour to an RGB light fixture with different values for short and long press

Besides the discrete functions of the touch sensitive surfaces, Sentido also offers a multi-touch feature (protected under European patent application). By touching more than one surface at the same time, additional functionalities can be selected.

Besides standard KNX functionalities, Sentido and Enzo offer additional new and innovative functionalities.

- Room toggle -

The room toggle function is used in combination with the multi-touch function.

The room toggle makes it possible to switch lights on and off in a room with one simple gesture. To make this possible the Sentido uses up to 8 feedback objects to detect if the lights in the room are on or off. Depending on this feedback Sentido will switch the lights on, using a standard welcome scene or switch off all the lights.

This functionality offers an unequalled ease of use as with a simple multi-touch gesture the lights are switched on or off. By using scenes, it is also possible to include blinds and curtains and even HVAC settings in the welcome scene.

The room toggle behaviour can also be altered with a day/night object. This makes it possible to switch on the lights in a different setting during day and night.

The room toggle can also be combined with other functionalities when the multi-touch is pressed for a longer time. For instance a short multi-touch press can control the room toggle, while a long press can force a general off for the complete house.

The room toggle can also be combined with the scene sequencer functionality.

- Scene sequencer -

This scene sequencer is used in combination with the multi-touch function and the room toggle function.

The scene sequencer makes it possible to select up to 4 additional scenes by holding the multi-touch for a longer time. This will cause the RGB light to cycle through a sequence of up to 4 colours. Each colour represents a different scene. Releasing the multi-touch at a specific colour selects the representative scene (patent application filed).

This functionality allows for the user to select scenes in a very easy and intuitive way without the need for engraving and labelling as each colour represents a specific scene.

- RGB sequencer -

With the increasing popularity of RGB light fixtures, Sentido comes with RGB control.

The RGB sequencer is used in combination with the multi-touch function.

A short press on the multi-touch will toggle the RGB light between on (last selected colour) and off.

A long press on the multi-touch will cause the RGB led of Sentido to cycle through a rainbow sequence of colours. By releasing the multi-touch at a specific colour, that colour will be sent as RGB values to the RGB light fixture.

This will allow for the user to control RGB light fixtures with full feedback of the RGB colour without the need for dedicated panels or touch panels.

The RGB sequencer uses three 1-byte objects to control red, green and blue and also the new and dedicated 3-byte RGB communication object as specified by KNX.

- RGB feedback -

The integrated RGB led can be fully controlled with KNX.

The colour of the RGB led can be controlled with discrete 1-bit objects for each colour, one 1 byte object where each colour is represented with a value or three 1 byte objects (red, green and blue).

This makes it possible to use the RGB led as a status feedback using different colours.

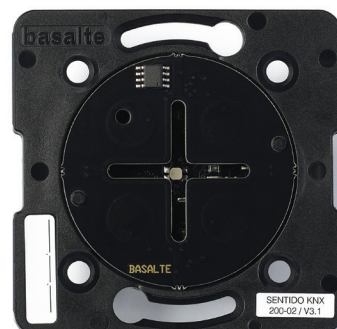
The integrated RGB led can also be programmed as a night light with the freedom to select both the colour and the intensity.

- Scene controller -

A completely independent scene controller can control up to 8 lights (1 bit or 1 byte objects) with up to 6 scenes. The values are stored inside the switch and controlled with a scene object.

The integration of the scene controller inside Sentido facilitates programming as all scenes are directly controlled from the switch and there is no need to program scenes into the respective switching and dimming modules.

By combining scene controllers of different switches, groups with more than 8 lights are possible.



- Timing function -

Sentido also has 4 integrated timing functions. Each function has its own input and output communication object (1 bit).

The timing function can be

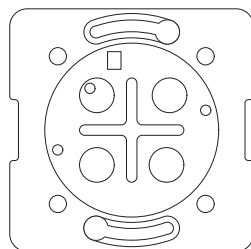
- Delay on rising edge
- Delay on falling edge
- Delay pulse
- One shot triggered by rising edge
- One shot triggered by falling edge
- Delay pulse inverted
- Rising edge filter
- Falling edge filter

- One more thing... -

To top it all, Sentido features a fully functional internal **thermostat** logic that supports heating and cooling with 2-point control, PWM control and PI control.

The internal thermostat can be used in combination with the internal temperature sensor or with an external temperature sensor like for instance the Auro motion detector.

The integrated thermostat logic allows designing systems without physical thermostats. Sentido and Enzo provide the measurement and heating/cooling control while the control of the setpoint and mode can be provided by the KNX visualisation.



- To conclude -

The Sentido KNX light switch is one of the most advanced KNX devices on the market.

It should not be mistaken for a simple 2-gang or 4-gang switch as the multi-touch function, the room toggle and the scene sequencer allow for a lot more functionality than provided by standard KNX devices in a simple and innovative way.

The integration of the scene controller, extra timing functions and the internal thermostat makes Sentido a unique and truly amazing KNX touch sensor that sets a new reference for KNX switches.

- Technical specifications -

name / productnumber	sentido KNX / 200-02
front cover	sentido and enzo
interface	KNX integrated BCU
multi-touch	yes
scene- and RGB sequencer	yes
multicolour LED	integrated
temperature sensor	integrated
thermostat logic	integrated
power supply	KNX buspower
power consumption	10mA
dimensions	70mm x 70mm x 25mm
backbox	European standard box with screws 60mm
certification	CE