



LIGHTING CONTROL PANEL - 3 TOUCH

AXS000_T3M

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STC (Standby Touch Recovery) &
AAB (Adjustable Automatic Backlight) Technology.
We use high-end embedded technology to design
innovative scenarios.





General description

The AXS000_T3M Touch Switch is Calirom's room touch switch for the BMS solution. The touch switch is a wall mounted equipment. It can be installed in a European standard 3 module electric box.

The touch switch is not intended to control any high voltage circuit. All the wirings are for low voltage only. The high voltage driver is part of the **AXS004_MCM6R10** room controller and resides in the room's main electrical box. The touch switch has the Calirom's Room Bus RS485 half-duplex interface to communicate with the **AXS004_MCM6R10** room controller module.

Features

The Touch switch is a wall-mounted device with a standard 3 module-wide front panel, having glass finishing. The image from above presents the standard front panel with all its graphical elements. The touch switch has 3 configurable switches that can be assigned to functions as Privacy, Clean My Room, Lighting Control, Master Off and so on.

Light control buttons:



Hallway (Touch button)

Controls the hallway lighting.



Bathroom light (Touch button)

Controls the bathroom lighting.



Ambient Light (Touch button)

Turns on the set of lamps corresponding to the preset scenario for an ambient light.

The Ambient Light Sensor (ALS)

If the ambient light sensor is activated, the light intensity of the backlight, illuminating the touch keypad, is adjusted considering the amount of light in the room. A dimming threshold can be set such that below a certain ambient light intensity the elements on the touch switch starts fading out. A night threshold is defined such that once the lighting of the room drops below this value the touch switch enters in night mode, turning off completely both the display and the touch key backlights.

The Touch Keypad

The touch keypad consist of 3 touch buttons each with individual RGB backlight. A color code of the backlight indicate different situations for each key.

Backlight color	Significance
White	White is the default illumination for each backlight indicating that the touch key is enabled and ready to be used.
Yellow	Yellow is displayed to indicate that the touch keyboard is locked.
Blue	Blue is used to indicate touch in night event. In case the touch switch is in night mode and the user touches one of the keys. While in blue color the keyboard is not active but it will activate shortly (turning white). The touch in night is handy allowing the user to figure out the key to press but with no "shut in the dark" method. Single key can also display blue if set as MRC function.
Green	Green can be displayed either for a light channel for the ON state of the channel or if the key is set for door opening while the door was commanded to be opened the key will also display the green light.
Cyan	Cyan is used to indicate an active light scene.
Orange	If a touch key displays orange color than the calibration fails regularly and the key cannot be used. This is a hardware problem and the equipment has to be serviced.
Pink	Pink can be displayed shortly on each of the touch keys. This indicates that the corresponding touch button performs calibration. Touch calibrations should be quite seldom events happening not more than once a day.
Red	Red represents the DND key color while room is in DND mode.
Tuned off	The corresponding button is disabled.

Electrical characteristics

When using the module make sure you don't exceed any of the following ratings.

Element name	Connection type and Cable	Min Max Ratings
DC Power Supply	multithreaded, 2 wire, AWG 20-24, screw	Voltage: 9.0 to 14 V, Current: max: 0.1 A @
Half duplex RS485 Room Connection	multithreaded, 2 wire, AWG 20-24, screw	Max 5V differential pairs (over 1 twisted
Window Sensor	multithreaded 2 wire, AWG 20-24, screw	Max. 5V Ground referenced.
SPDT Relay	multithreaded up to 3 wire, AWG 20-24, screw	Voltage: max 24V, Current: max 0.1A

Operating conditions

Characteristic	Min Max Ratings
Humidity	5 to 80
Temperature	+0 C to +50 C (with no condensation)

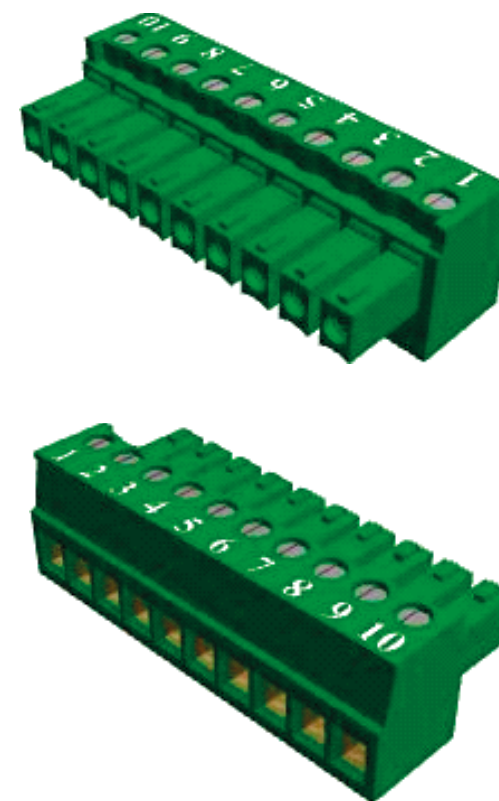
The module should be voided from direct contact with water or highly humid areas. The module can only be used for inside applications and without exceeding the above specifications. The AXS000-T3M touch switch is designed to operate as a slave device of the AXS004_MCM6R10 room controller module. The touch switch do not have a direct interface with the Calirom's BMS server. All the communication with the server is done through the room controller module. The high voltage interface with the fan coil system is also part of the same room controller. The communication between the AXS000_T3M Touch Switch and the AXS004_MCM6R10 room controller module is done via the half duplex, RS485, room bus. The touch switch is supplied from the same 12DC Rail as the room controller.

Connector details

The AXS000_T3M Touch Switch is equipped with a 10 pin, 3.5mm pitch socket. The type of the socket is 15EDGRC-3.5 10P from Degson Electronic. The recommended plug for this socket is 15EDGK-3.5 10P also from Degson Electronics.

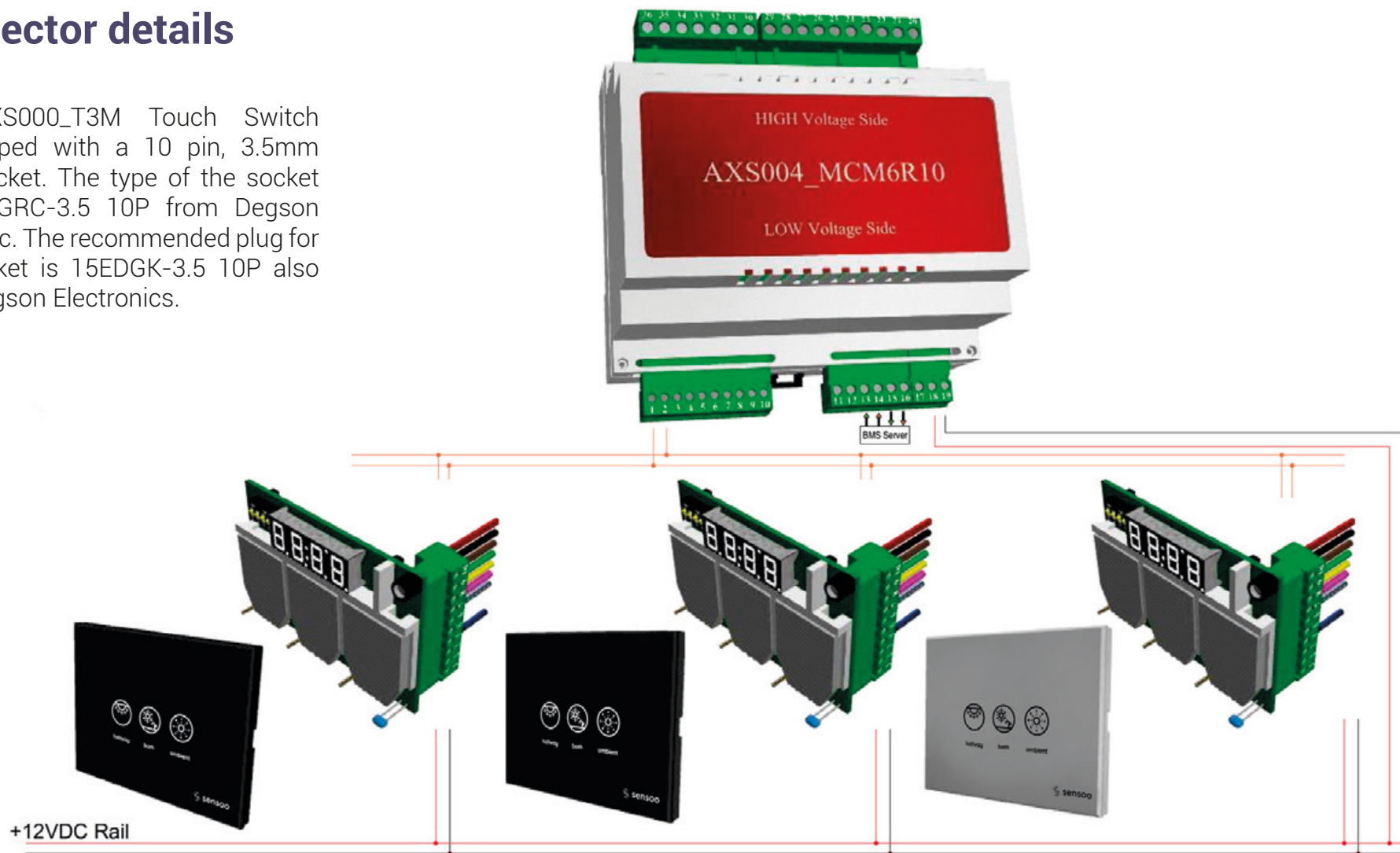
Pin description for the 15EDGRC-3.5/10P socket.

Pin	Signal Name	Description
10	+12V	SUPPLY: DC Rail positive input
9	GND	SUPPLY: DC Rail ground input.
8	Room RS485 (B)	INPUT / OUTPUT: Main room bus communication channel. Used to connect with the AXS004_MCM6R10 room controller module.
7	Room RS485 (A)	INPUT / OUTPUT: Main room bus communication channel. Used to connect with the AXS004_MCM6R10 room controller module.
6	Not Used	DO NOT CONNECT: Reserved for future developments
5	Not Used	DO NOT CONNECT: Reserved for future developments
4	Not Used	DO NOT CONNECT: Reserved for future developments
3	Not Used	DO NOT CONNECT: Reserved for future developments
2	Not Used	DO NOT CONNECT: Reserved for future developments
1	Not Used	DO NOT CONNECT: Reserved for future developments

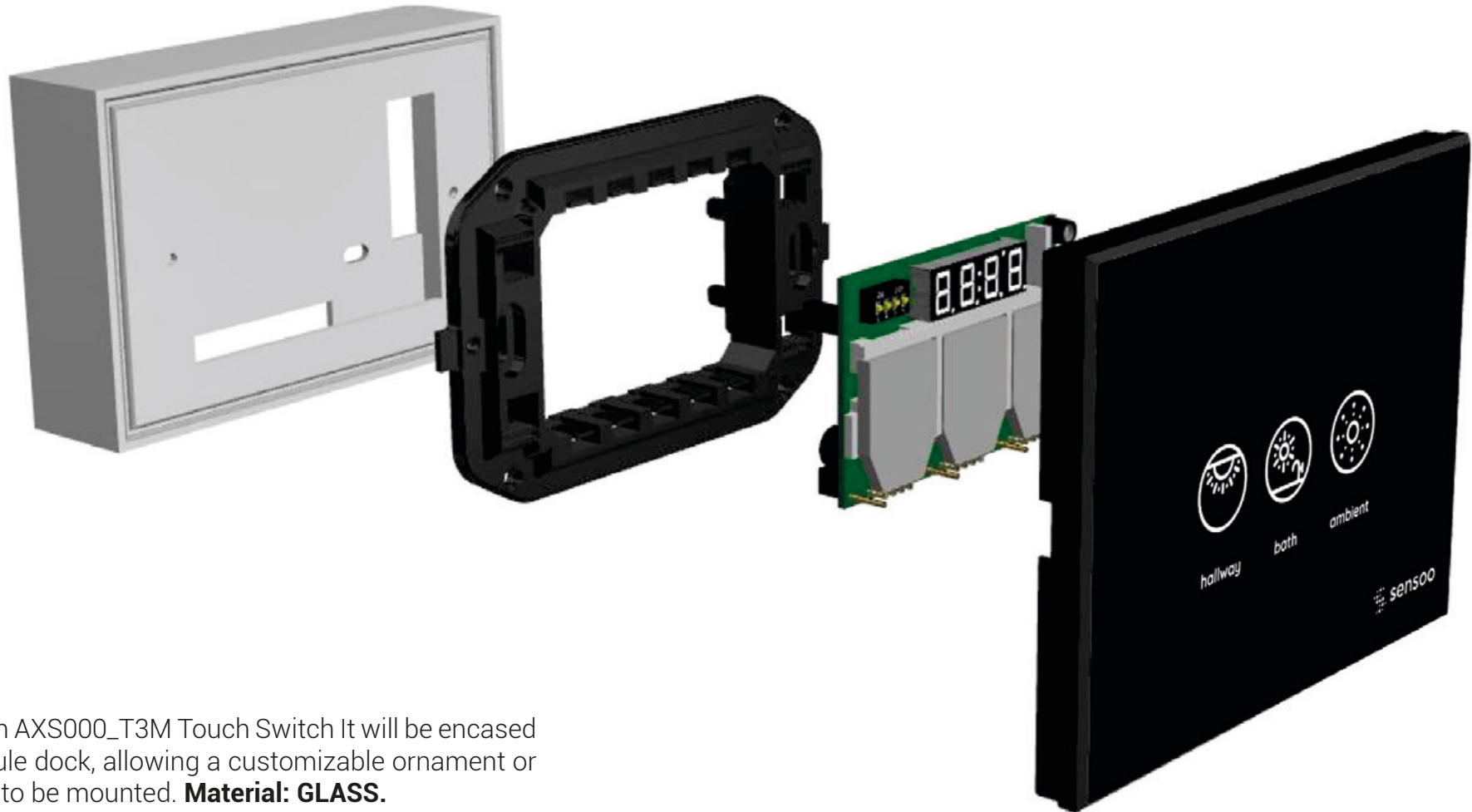


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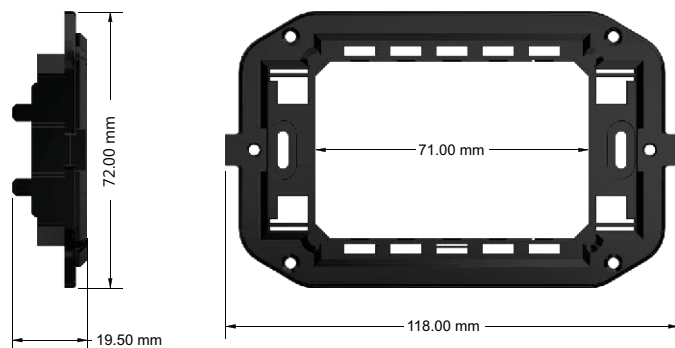


Mounting instruction

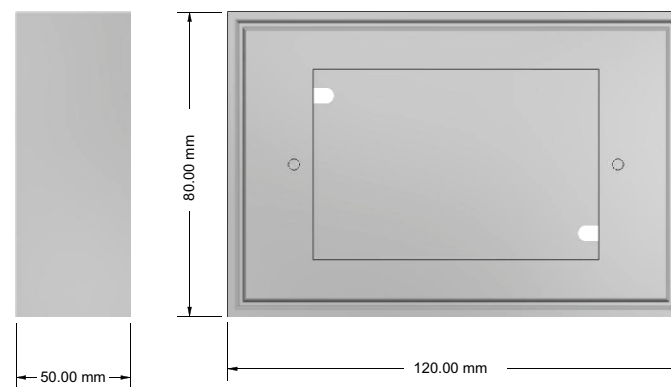


The Calirom AXS000_T3M Touch Switch It will be encased in a 3 module dock, allowing a customizable ornament or front cover to be mounted. **Material: GLASS.**

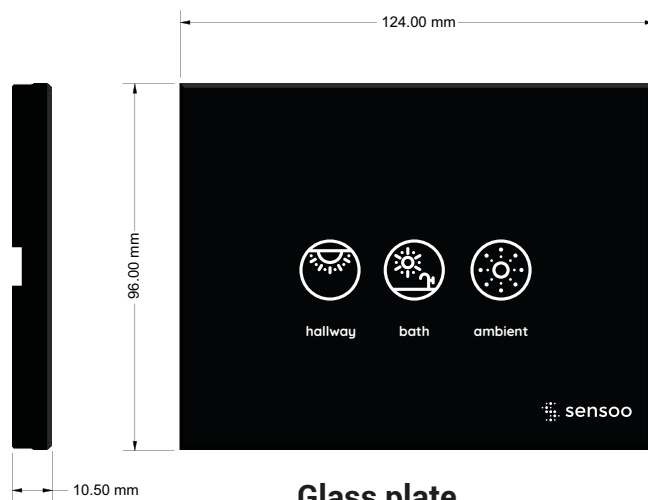
Mounting components dimensions



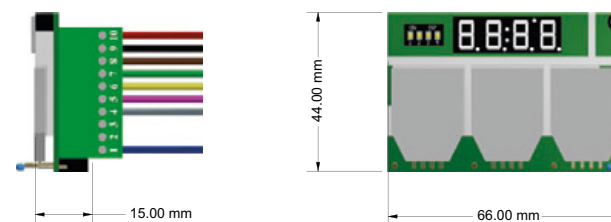
Standard mounting brackets



Wall mounting box



Glass plate



Electrical component

Regulatory Notices

Please note that this equipment is compliant for the following:

CE - COMPLIANCE TO EUROPEAN UNION (EU)

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards: IEC/EN 61326-1 Product Standard, IEC/EN 61010-1 Safety Standard.

WEEE - DIRECTIVE OF THE EUROPEAN UNION (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2002/96/EC, governing the disposal and recycling of electrical and electronic equipment in the European community.



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