CALIROM
ROOM MANAGEMENT SYSTEM

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BY CALIROM

INTELLIGENT RFID CARD HOLDER

AXS004_EC

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

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General description

The Intelligent RFID Card Holder is a programmable card holder device designed for hotels, for indoor use only. Its intended usage is to be placed in the room entrance near the door in order to control the power supply of the room according to the cards that have been assigned to.

Embedded States Modules

Clean (Touch button)
By a simple touch of the button, the CLEAN symbol will light up in blue, and a notification will be sent to the reception desk. The CLEAN MY ROOM request can be cancelled by touching the button again.

Valid card inserted (RF Symbol)
Once a valid card is inserted into the card holder, the RF symbol will no longer light and will turn on the room's power supply on the preset time. In case of hotel customers, the preset time value is infinite, meaning that the room will be powered a long as a valid customer card is inserted into the card holder. For hotel's employees' card, the preset time value can be defined and modified according to the access group to which the card was assigned to. e.g.: The cleaning stuff has the room powered for a period of time imposed by the hotel manager.

Privacy (Touch button)
If the guest does not want to be disturbed - by simply pressing the touch button - the red led light on the card holder DO NOT DISTURB indicator will be turned on. No EMPLOYEE card will be able to open the door except the cards registered into the EMERGENCY category. The system returns to its original state in case of an event such a BATHROOM ALARM , CLEAN, or by simply pressing the PRIVACY button again.

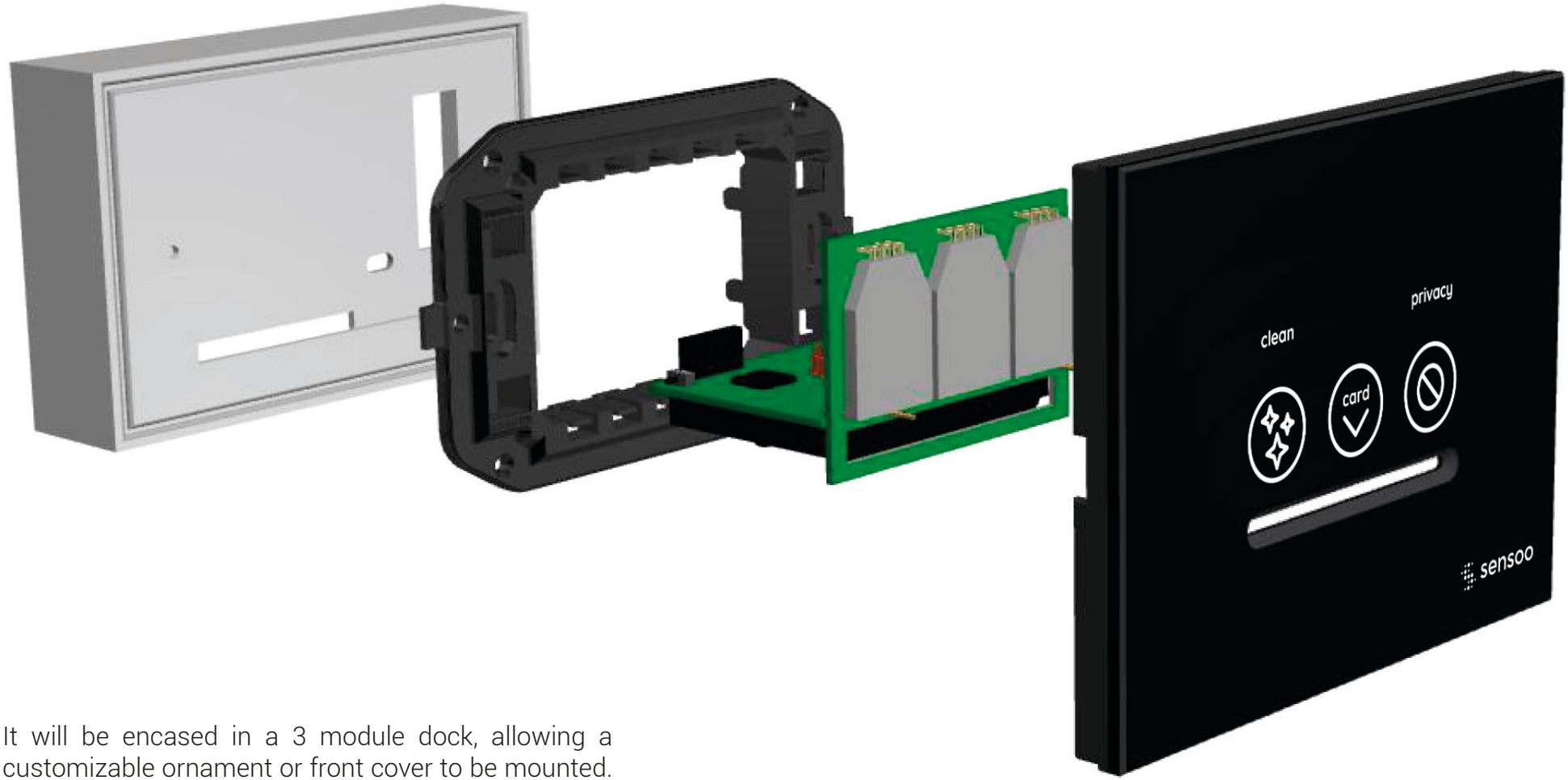
Personalized ornaments

The Intelligent RFID Card Holder ornaments can be manufactured from glass material and the available shades are black and white.

System design presentation glass ornament

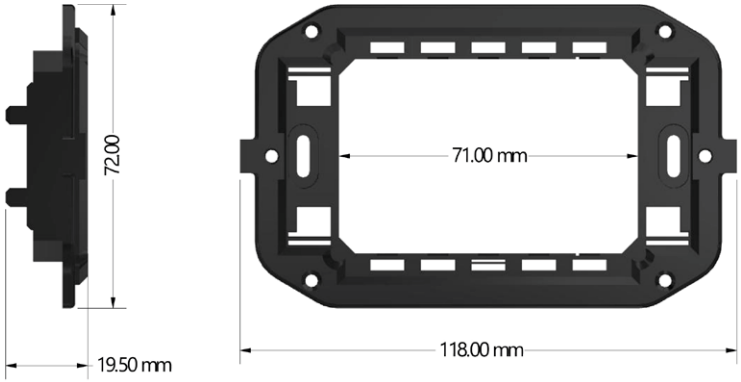
Classic design depicting the CLEAN and PRIVACY functions. It can be manufactured from glass. Current available shades are black and white.

Mounting instructions

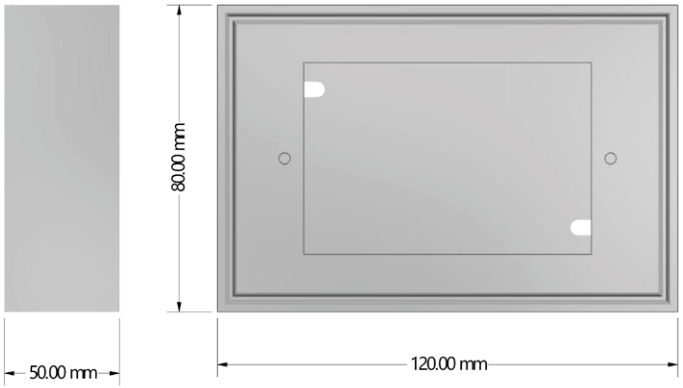


It will be encased in a 3 module dock, allowing a customizable ornament or front cover to be mounted.

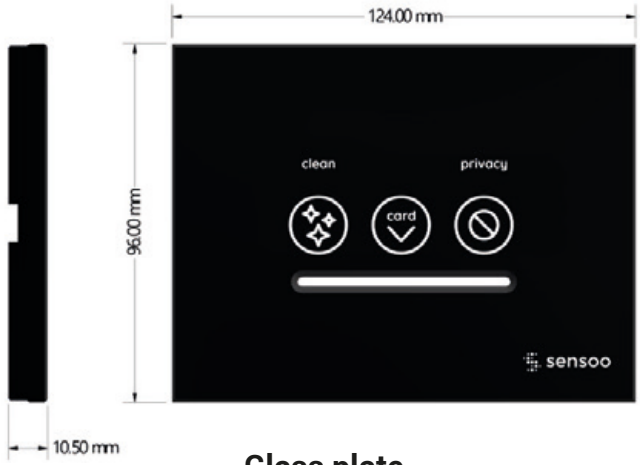
Mounting components dimensions



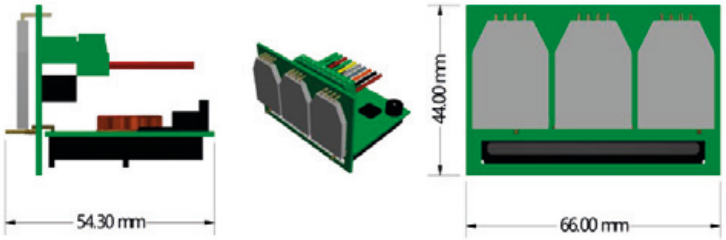
Standard mounting brackets



Wall mounting box



Glass plate



Electrical component

Communication & Configuration

The Intelligent RFID Card Holder module communicates with the server via the HotelBus, using the RS485 communication protocol. Please check Connection Squematic and System Diagram for further details.

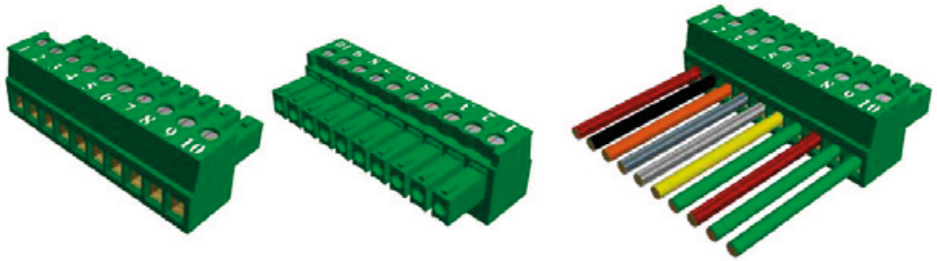
Configuration, programming and debugging is done using Windows based compatible service tool RFID ECO V4, through USB port. It can also be done through the Calirom GUI (graphical user interface) using the embedded debugging and setup module.

The Intelligent RFID Card Holder includes a backup system, meaning that if the module will lose the communication with the server - due to the fact that all the assigned and valid access cards will be stored into the intelligent RFID card holder memory - both the guests and the employees will have access to the system features and the room will be powered.

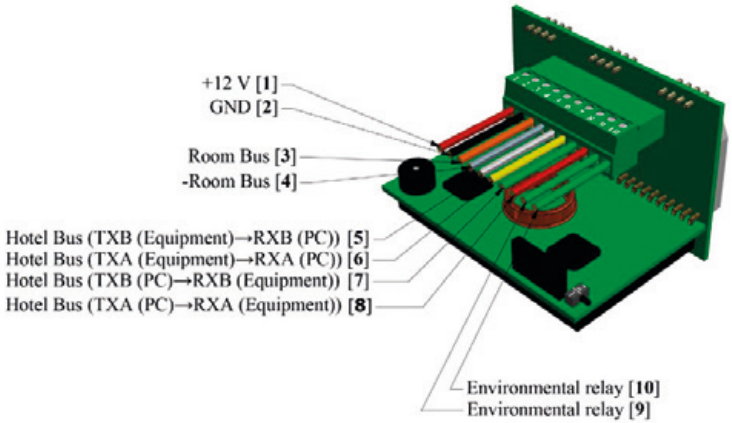
Technical data

Nominal Voltage	12 Vcc
Consumption	200 mA
Maximum Load	250 m
RFID Frequency	125 Khz
Comm protocol	RS485 fullduplex
Preset time	0 sec - “
Memory	600 cards

Connector details



Connection Schematic



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

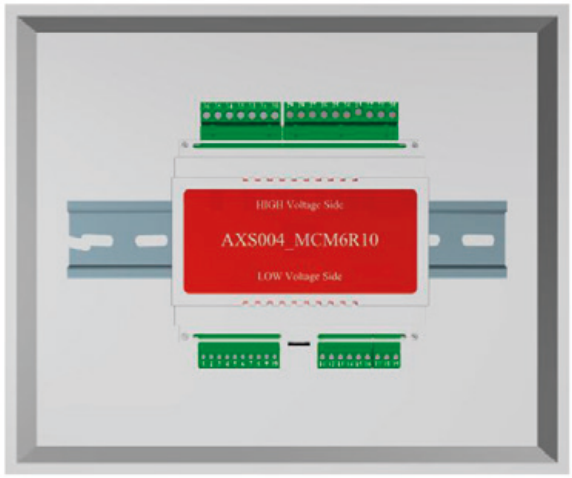
Pin no	Status	Connector wire color	FTP wire color	Signals
1	Active	Red	Red	+12V
2	Active	Black	Black	GND
3	Active	Orange	Brown	+RB
4	Active	Gray	White-Brown	-RB
5	Active	White	White-Blue	TXB
6	Active	Yellow	Blue	TXA
7	Active	Green	White-Green	RXB
8	Active	Green	Green	RXA
9	Active	Green	-	I/O
10	Active	Green	-	O/I

System Diagram Scenario 1

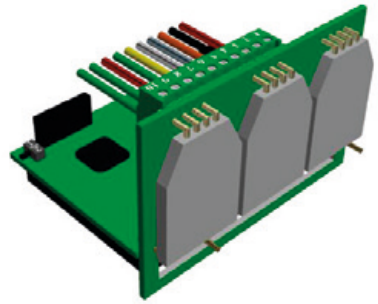
Calirom server

**Floor Power Module &
Data distribution Module**

**Room Controller
AXS004_MCM6R10**



Card Holder - AXS004_EC



Available Features:

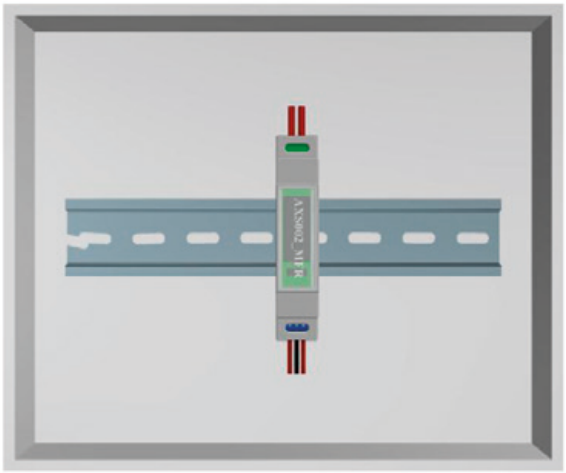
- Temperature and fan coil control thermostat;
- Door sensor, window sensor and flooding sensor;
- Bathroom Alarm, Privacy and Clean My Room;

System Diagram Scenario 2 - (without Room control unit)

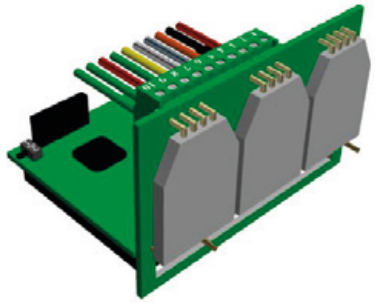
Calirom server

Floor Power Module & Data distribution Module

Power module relay



Card Holder - AXS004_EC



Sensors:

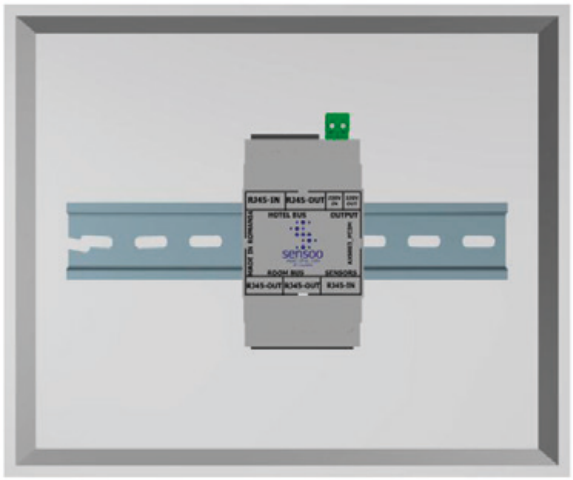
- Bathroom Alarm;
- Privacy and Clean My Room
(not available to be seen or controlled from the reception desk);

System Diagram Scenario 3 - Intermediate (without thermostat and fan coil control)

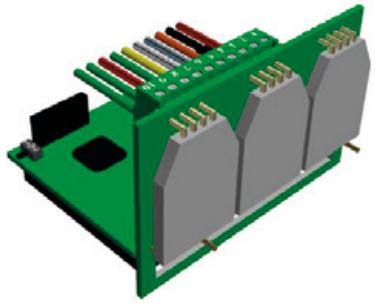
Calirom server

**Floor Power Module &
Data distribution Module**

**Room controller lite
AXS003_PC3M**



Card Holder - AXS004_EC



Available Features:

- Door sensor, window sensor and flooding sensor;
- Bathroom Alarm, Privacy and Clean My Room;

Regulatory Notices

Please note that this equipment is compliant for the following:

CE - COMPLIANCE TO EUROPEAN UNION (EU)

2004/108/EC Electromagnetic Compatibility Directive
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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