

SMART HX



Ultimate Hotel
GRMS Solutions



REV.01

Current Hotels Challenges

- Decorated Hotel without GRMS (requires clean fast install stable solution)
- Old hotel with old Powerline GRMS (requires online solution without changing old system)
- New Hotel Needs (fully featured, elegant, all in one solution in one panel easy to use)

Introducing the solution

Smart HX

Hotel GRMS solutions by G4

Affordable - Complete - Stable - Elegant - Online - Retrofit



OLD Hotel Case 1

that does not have any system

- * Such hotel uses Normal Keys and uses Tags to hang for DND/MUR
- * This type of hotel does not even have any energy saving solutions



To upgrade such hotel with easy Retrofit solutions we offer the following:

Energy saving solution C1A:

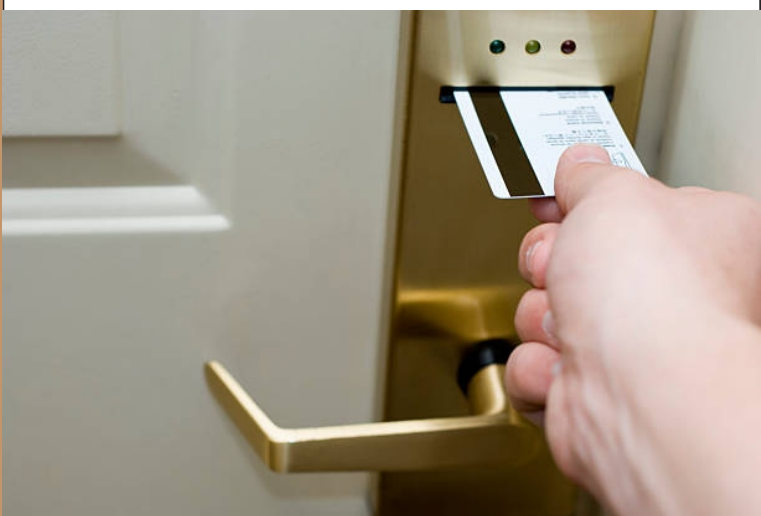
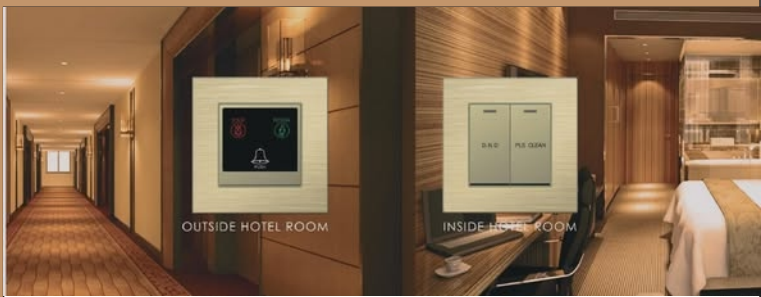
(Retrofit using Mag and Relay with Occupancy sensor and smart logic)

Energy saving with elegance upgrade solution C1B:

(Adding to the above (A) a Card Holder with service request and Door Bell with DND/MUR/Occupied/vacant, with elegant room number and Chime)

Also More upgrades

solutions can be implemented without damaging the decoration to make it online or with lights and HVAC control adding motorized Curtains and more GRMS features



OLD Hotel Case 2

this type has old 110V/220VAC System to display DND/MUR and might also have energy saving Key card Holder

- * Such hotel HAS NO ONLINE ABILITY
- * energy saving can be fooled by real valid second card of the room
- * Hotel might like to upgrade to modern look partial or fully without affecting its running operation
- * Hotel owner like to enhance the looks and increase guest locality and ensures maximum energy saving

smart G4 has easy Retrofit solutions as following:

Online feature adding solution C2A:

(we have an easy retrofit solution to connect the DND/MUR of old system and make it report online at reception PC)



SSW-2CS-FL

True Energy saving solution C2B:

we can add retrofit sensors and Main power cutoff as well as AC power cut off if Window or terrace door were left open our solution detects real occupancy and acts to energy save using smart logic regardless of card inserted status)

Also More upgrades

solutions can be implemented without damaging the decoration to make it online or with lights and HVAC control adding motorized Curtains and more GRMS features



OLD Hotel Case 3

this type has old GRMS 110V/220VAC System to control the Lights, Curtain motors, Air-conditioning and more

- * Such hotel HAS NO ONLINE ABILITY
- * many room systems has faults
- * Hotel owner does not want to affect current running operation.
- * Hotel owner like to enhance the looks and increase guest locality

smart G4 has easy Retrofit solutions as following:

Online feature adding solution C3A:

(we have an easy retrofit solution to connect the DND/MUR of old system and make it report online at receptionist PC)

Upgrade the current system to Easy modern solution C3B:

we can use same old wires and upgrade to New easy to use system

Also More upgrades

solutions can be implemented without damaging the decoration to make it smart with full energy saving and adding motorized Curtains and more GRMS features





New Hotel to open soon Case 4

the New Hotel either still under construction or in pre-decoration finishing stage or it has finished its decoration already and has no smart wiring

- * Smart-G4 have complete solutions for under construction works or for New Hotels that has good budget for luxury
- * G4 also have solutions for under construction hotel that does not want contractor to add variation order costs to modify contracted wiring
- * also G4 have full retrofit solution for New hotels without popper smart wiring or for lower budgets
- * with our solutions, Hotel owner can upgrade and add stars easily

we can give and expand the following GRMS features:

Room Number DND MUR collect Laundry Occupied / Vacant Bell Boy Call
 VIP self service requests Online/offline Smart energy saving Valet and elevator Call
 Express checkout Report a repair Airconditioning Control Lighting Control Night Light
 Moods Real Occupancy Door Access Water wastage Saving Emergency Motorized Curtain
 Media Control Touch and Button Panels Bell/Chime ECO / Welcome/ Energy Saving Operation
 Moon lighting Reporting central control House keeping room ready Reporting
 Universal sockets with wall USB charger and Many More

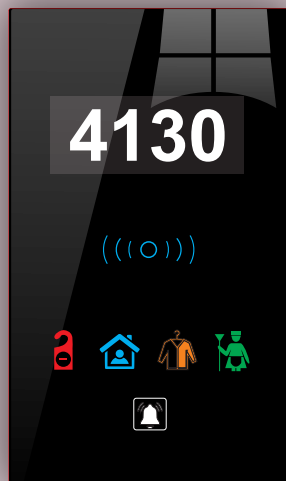


Smart G4 Room Door Solutions

Room door entrance is one major part of the system that requires good attention to its functions as following:

- * Room Number with Hotel Logo
- * Door Access control with logging and moon lighting
- * class of service for entry to staff or guests
- * Room Occupied display outside the Bell
- * Services Like: (DND, MUR, Laundry)
- * Energy saving logic activation with every Door opening
- * Mood & scene activation
- * Security alert if room door forgotten open

Luxury



Standard



Retrofit

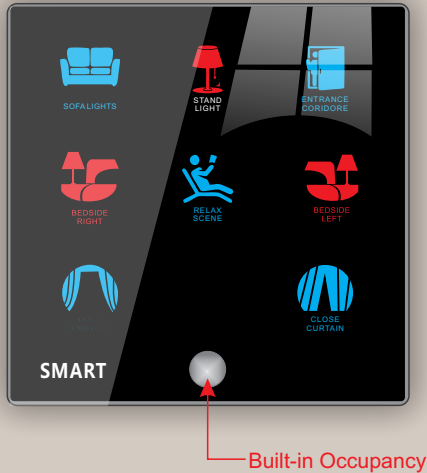


*Please confirm features per system selected configuration

Smart G4 Room Lighting Controls

Parts we offer:

Dimmers
Relays
DALI
DMX
0-10v
LED drivers



We offer wide range of products to control light **intensity**, **color**, shape, direction, size etc. in Hotel GRMS Zones:

- * Room Entrance
- * Bathroom/Toilet with night light
- * Hotel Bedroom
- * Sitting and Study
- * Terrace/ Balcony
- * **Also for other Hotel Building Lighting Needs** in Lobby, Facade, Restaurants, etc.



Day Night Wakeup Shower Watch TV Listen to Music Relax Breakfast Welcome
All Off/On Dress up Dining Goodbye Cleaning Massage Energy saving Etc.

Smart G4 Room Comfort and Energy

Knowing that heating and air-conditioning is a major energy drain in hotel environment. and knowing that freshness and comfort are very vital elements for guests, accordingly smart G4 offers fully featured solutions:

- * Energy Presets (Vacant, Unoccupied, Eco, standard)
- * Energy-save based on Real occupancy regardless if real second valid card was inserted in keycard holder
- * Running of exhaust fan in Toilets periodically
- * Running HVAC when reaching pre set points
- * Switching Off FCU/AHU if terrace or window left open
- * Locking thermostats at checkout for certain rooms
- * Locking and switching temperature to presets after 3AM



FCU AHU VAV VRV/VRF Chiller
IR FAN SPEED ON/OFF Limits
Floor Heating Oxygen Injectors



Timed schedule - With wakeup mode - with night mode
manual on demand - control based on sun movement

Smart G4 Room Shading Motor Controls

Shading is a vital element in any hotel room. it adds to the room beauty, privacy, comfort, and helps in energy saving.

Smart G4 have all the controls for all types and brands

- * Black out motor
- * Curtain or Sheer Motor
- * Roller drape Motor
- * Vertical Blinds Motors
- * Roman Blinds Motors
- * Canoby Motors
- * Roller Shutter motors

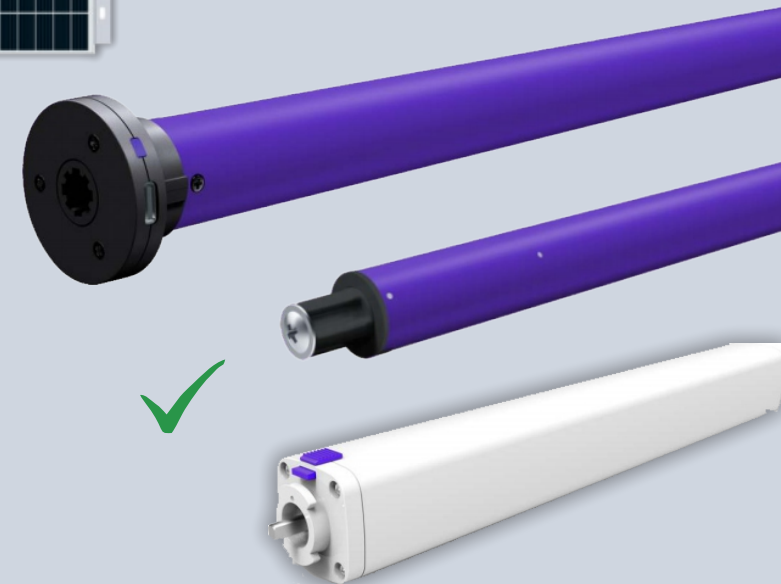
Smart G4 have solution for Hotels that
Need motorized shades but can't provide
electricity wires:



Lithuim Battery in-built (embedded inside the Drape tube and Curtain Motor Housing
this combination can last for about 6 months operation if no solar strip was installed
then it can be charged using powerbank, or phone charger using any Type-C- cable.

The motor can be controlled using hand remote or using Horner-X HX panels wirelessly
the motor provides silent flawless operation with power of 1.2nm for curtain and 1.6nm
for Drape motor type.

Adding the Solar strip at window side and connecting it to motor, provides contentious
charging to keep battery full always



A hallway with a digital door display showing the number 1042 and icons for a door handle, a person, and a person with a bag. The hallway is dimly lit with a series of circular lights on the ceiling. The door is made of a textured material, possibly wood or metal, and the display is a small, rectangular screen mounted on the door. The icons are red and white, and the number 1042 is in white. The background is a blurred hallway with a carpeted floor and a railing on the left side.

DND, MUR, Pick laundry, Send Bell boy, Bring my car, I need Taxi, Refill mini bar, I need extra Pillow, Blanket, Bath robe, Collect back the Plates, I need private butler, I need Ice, Clean my shoes, I need Massage, Fix my bed, Call elevator in advance...

Bell Boy Panel

Bell Boy Request



Smart G4 HX Energy Solution:

All Hotels require maximum elimination of energy wastage. Smart G4 has retrofit solution for energy helps save energy in hotel guest rooms by analyzing real occupancy every time room door is opened then closed.

We also provide solution for switching off of air-conditioning if terrace door or window was left open

Solution consists of simple retrofit battery operated devices that work for a year with maximum battery efficiency. Room energy solution consists of:

- 1 magnetic contact for main hotel door
- 1 SPIR or Heart-beat/Breathing sensor
- 1 Heavy duty Relay to connect and cut off mains

solution for Terrace door or window:

- 1- Mag per door terrace or window
- 1- Heavy duty Relay to cutoff FCU power of Air-Con per zone/room



Magnetic Contact



SSW-Mag2-FL

Motion Sensor



SSW-PIR7-CL

Smart Power Relay



SSW-PRLY1-FL

Heart Beat / Breathing Sensor



SSW-HBS3-CL





Smart G4 HX DND/MUR+ Solution:

Hotels require fast to implement DND/MUR solution
Some hotels need online with software, or offline based on budget

we have solution wireless Retrofit for Hotels that require Offline and have Bell power outside the door:

1- Bell with room number and DND/MUR display

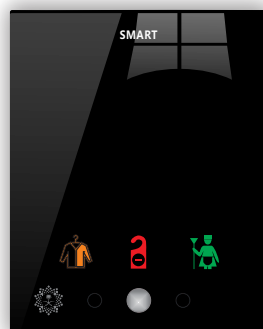
1- Service requester DND/MUR (Builtin chime)

like above case we have solution for hotels that require retrofit online

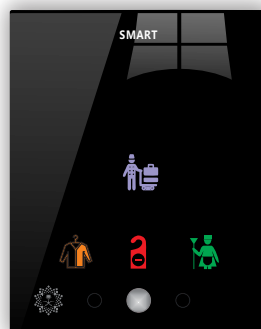


SSW-Bell3S-WL

Online Retrofit



SSW-HX3S-UN

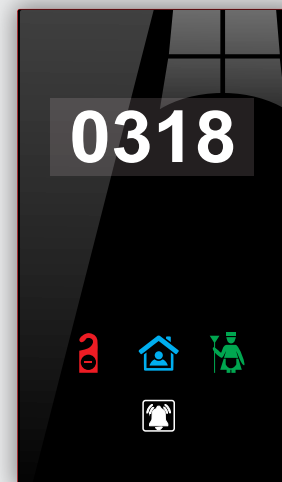


SSW-HX4S-UN

We have a solution to convert old hotel with standard AC type DND/MUR to become connected online and display DND/MUR at reception/ House keeping PC

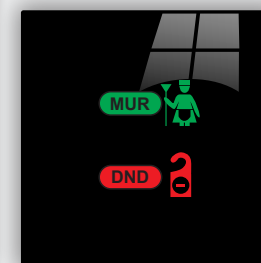


SSW-2CS-FL

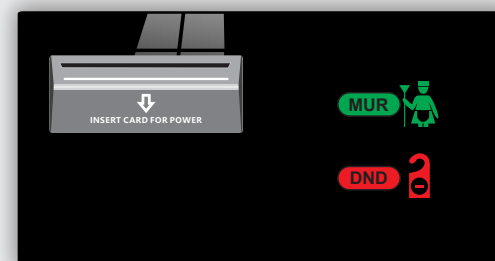


Bell with service

Offline Retrofit



Service Requester



Service Requester, chime,
Key Energy Card holder





Smart G4 HX Lighting & GRMS Solution:

HX Hornet-x lighting solution is a retrofit plug and play integrated mesh that can fit almost all types of backboxes and works with 110VAC / 220VAC / 230VAC hotels

We can add Modules to control extra lights, Shades, FCU, or other

SSW-RLY2c16A-FL
2 Relays for motors
or 2 relays for lights

SSW-RLY4c16A-FL
4 Relays for motors
or 4 relays for lights



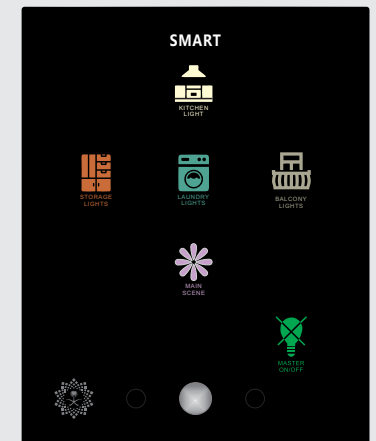
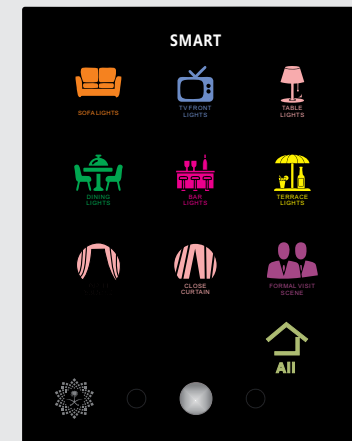
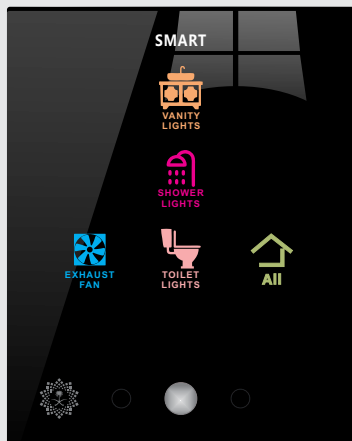
1 Relay for FCU
or 1 relay Pump
or Floor heating



SSW-PRLY1c40A-FL
SSW-RLY1c16A-FL



SBW-HornetX-UN



* every Hornet-X has Built in occupancy sensor, 3 Relays 16A, Temperature sensor, Logic, LED night light surround, IR receiver, IR emitter, LUX sensor and 12 Touch buttons with flexible icons and function, different color groups for on/off per Touch button. Hornet-x can be installed Portrait or landscape, on any back-box type

Sample Icons easy to use by Hotel guests



SOFA LIGHTS



ENTRANCE
CORIDORE



BEDSIDE
RIGHT



RELAX
SCENE



BEDSIDE
LEFT



OPEN
CURTAIN



ROMANTIC
SCENE



CLOSE
CURTAIN



WATCH
TV MOOD



GOODBYE
SCENE



COLD



COOL



WARM



MIRROR



BED LED



CEILING



L. WALL



ALL OFF



Dress up



Toilet



Vanity



Enter



Shower



Night



Cabinet



Bath



All Off



VANITY
LIGHTS



RELAX
BATH



TOILET
LIGHTS



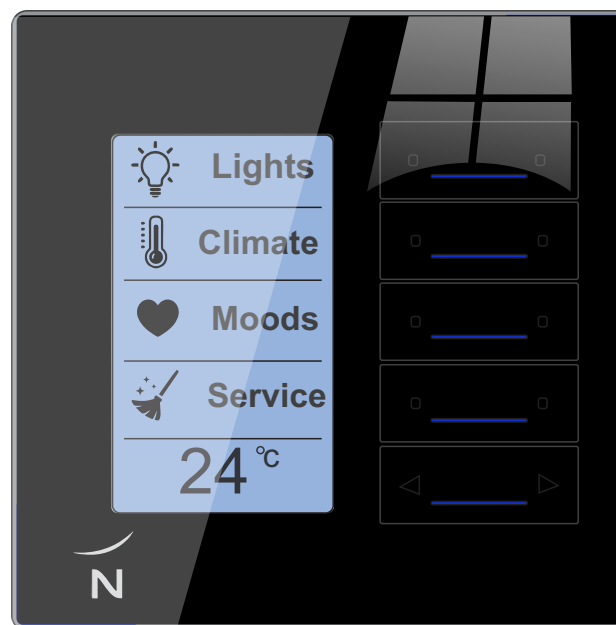
WELCOME
SCENE



ALL OFF
SCENE



NIGHT
SCENE





Smart G4 HX Door Access Solution:

We provide touchless access to hotel doors based on client preference.

RFID Locks battery operated full Body

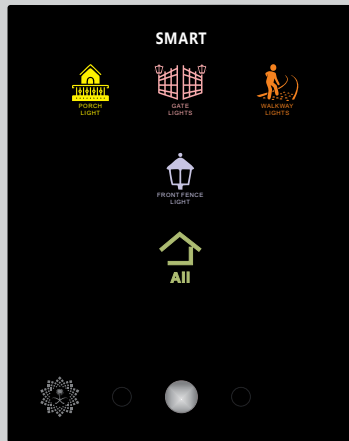
2 Piece Lock touch and lever

Door strike lock, where the RFID reader is integrated into the Bell

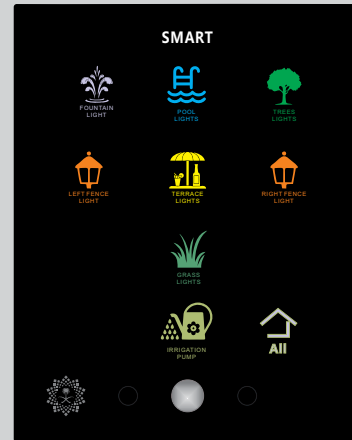


Our Retrofit HX Panels for Furnished Apartments

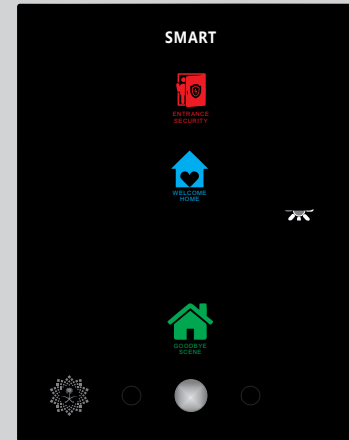
POURCH



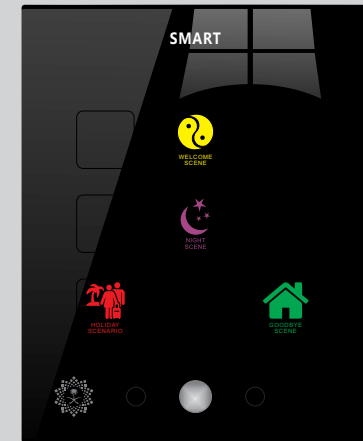
OUTDOOR



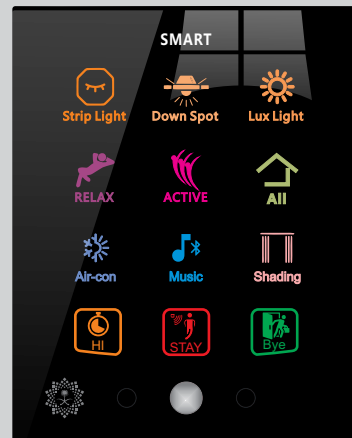
ENTRANCE



ENTRANCE 2



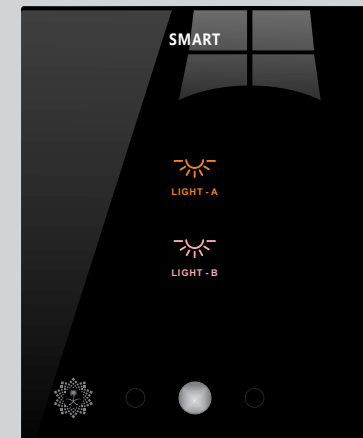
FORMAL



FORMAL 2



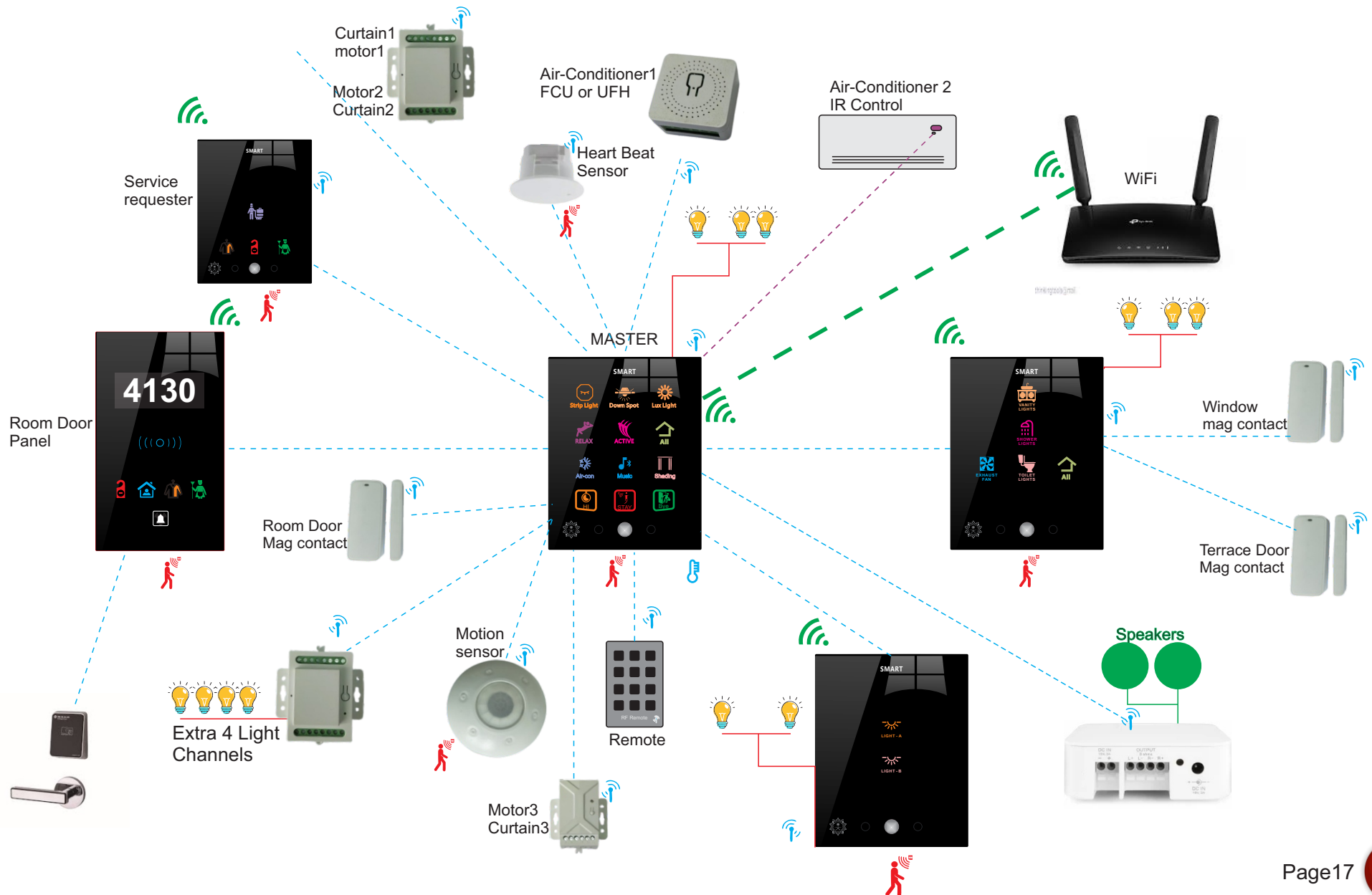
Other



if No Motion
after pressing Stay
= Sensor Activated
after 40 Minutes no Occupancy
1 Blink Keypad for 30 seconds
switch off light1 then wait 30sec.
switch off light 2, wait 30 sec.
switch off all room

If expire to energy saving, Then after
motion is back, then activate default mode:
if Bedroom = Night Light
if Hall = Welcome Mode

Hotel GRMS HX Connection Diagram



HORNET-X HX Features

Each Hornet-X can be connected to 10 Slaves
like Mags, Motion, relays

3 Local Lighting/Motor
Channels

9 RF Relay flexi Channels

Moods and Scenes

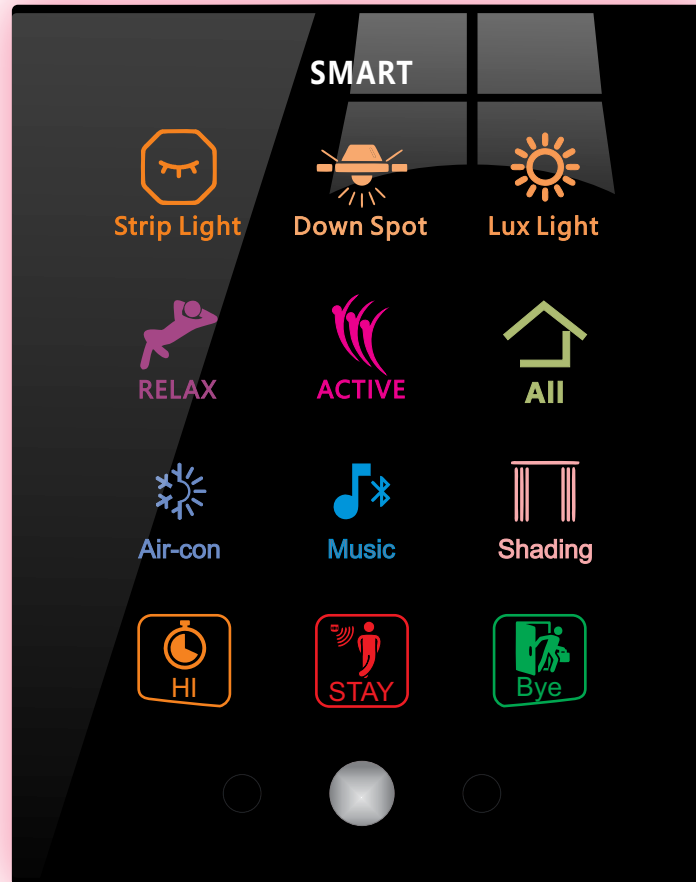
Temperature control

Pumps and water control

Flexible icons and functions

RGBW light surround

Can be installed on any
backbox: BS, EU, US, Italy,
AUZI, South african..etc.



Built-in: 12 Touch Buttons
3 Relays + 1 occupancy PIR+
BLE - Master Control to 9 External Flexi Relays
Wifi Mesh + 32 Logics (10 conditions each)
2 Temperature Sensors for Floor heating and Air cooling
IR Emitter 12 Meters + IR Eye receiver
Lux Sensor (Brightness)
*Internet Sync (time Clock)

Music Control

Air conditioner control Via
IR Or Relays or Other

Curtain and drape control

Lock, Gate release

Energy saving concepts
Hi, Stay, Bye

Every button can Select
different color for on/Off

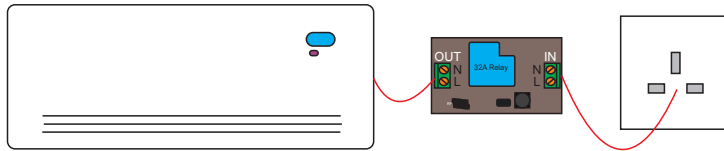
Can be controlled by
Hand Held Remote

Can be installed Portrait
or landscape

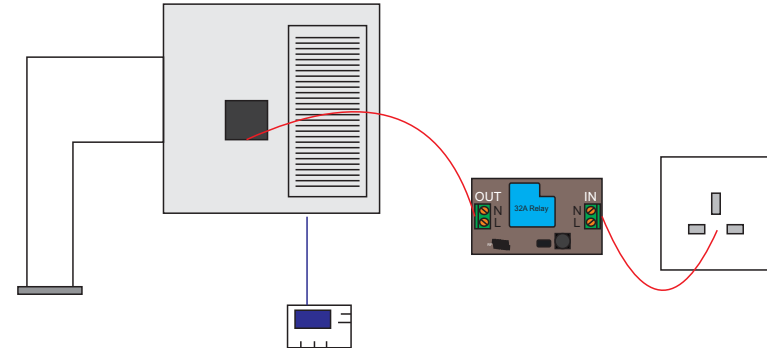


Hornet-X HX other systems Connection Diagram

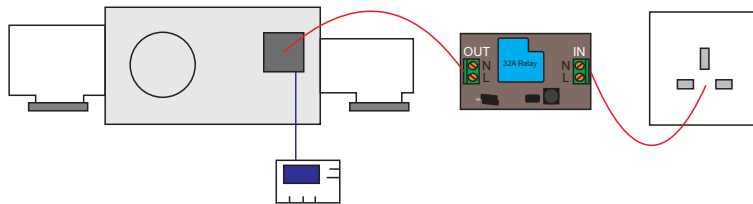
HVAC Connections options



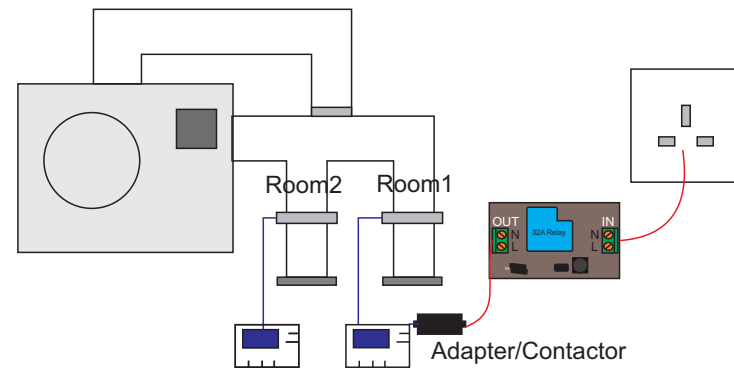
Place Between Power and FCU for Cassette type



Place Between Power and AHU for Package type



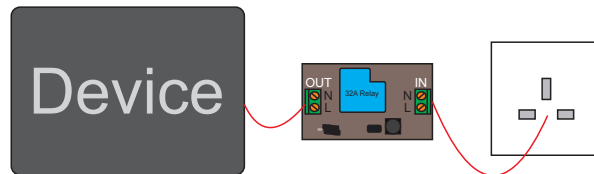
Place Between Power and FCU for Central type



Place Between Thermostat and Valve for VAV Central type

Other Examples Like:

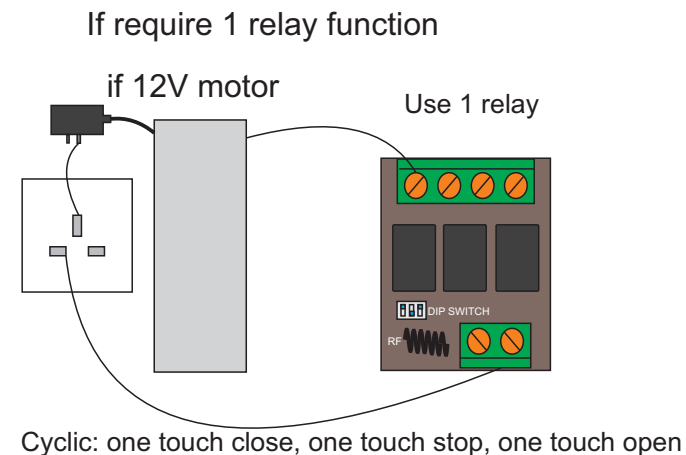
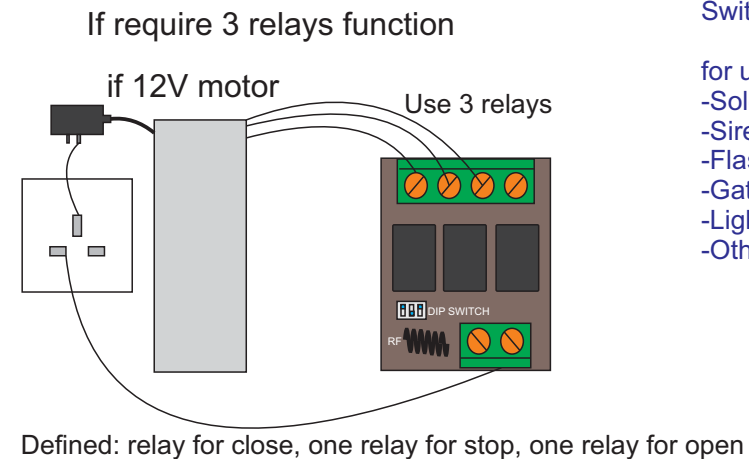
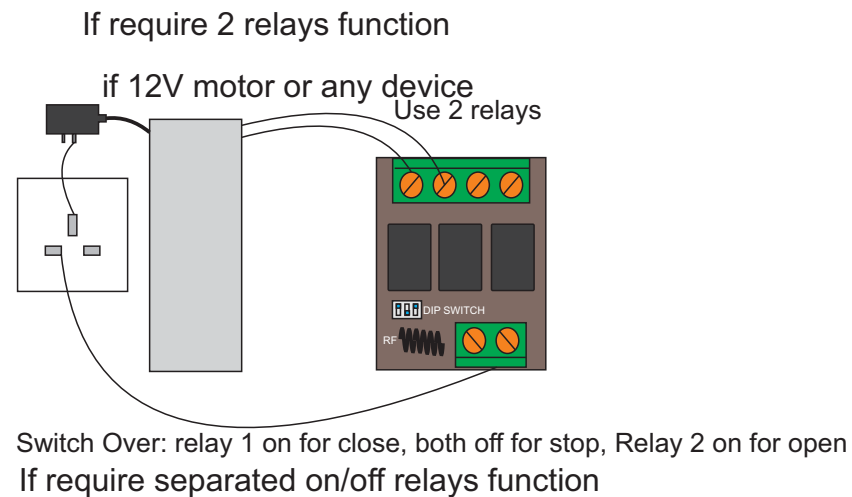
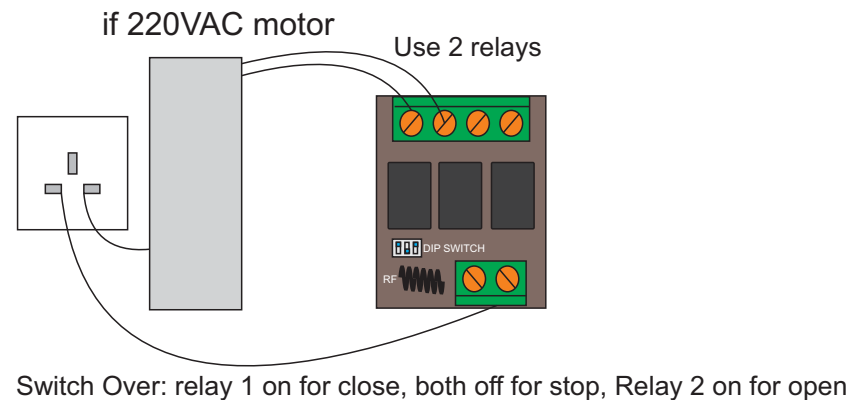
- Boiler
- Pump
- Garden Lights
- Fence lights
- Solenoid
- Heater
- Cooker
- etc..



Place Between Power and Device to be controlled on/off

Hornet-X HX other systems Connection Diagram

Motors Connections options:

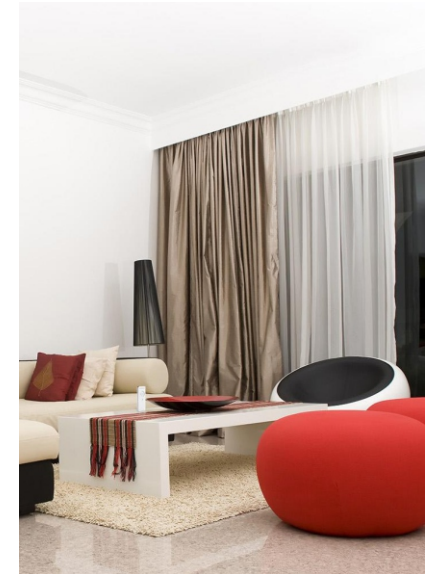


Other Uses:

Switch on/off any relay as needed

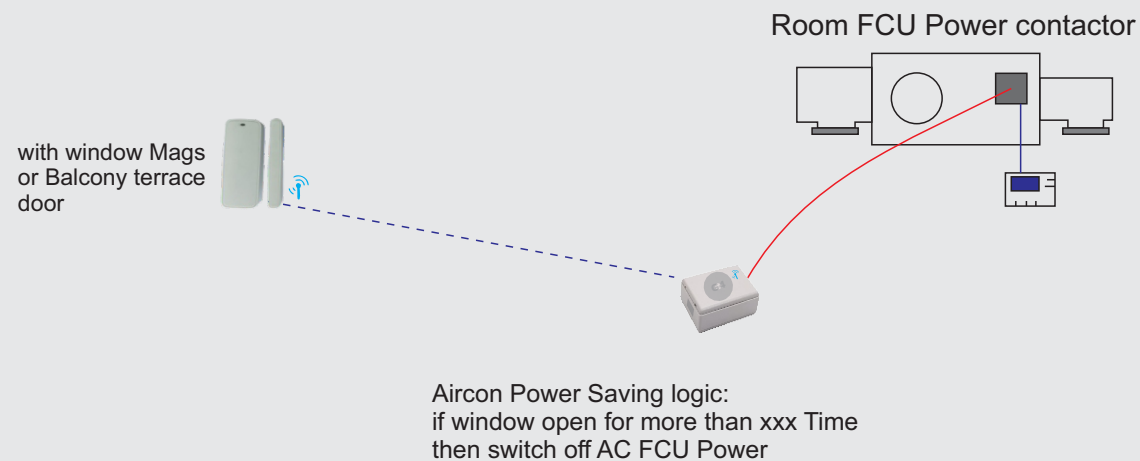
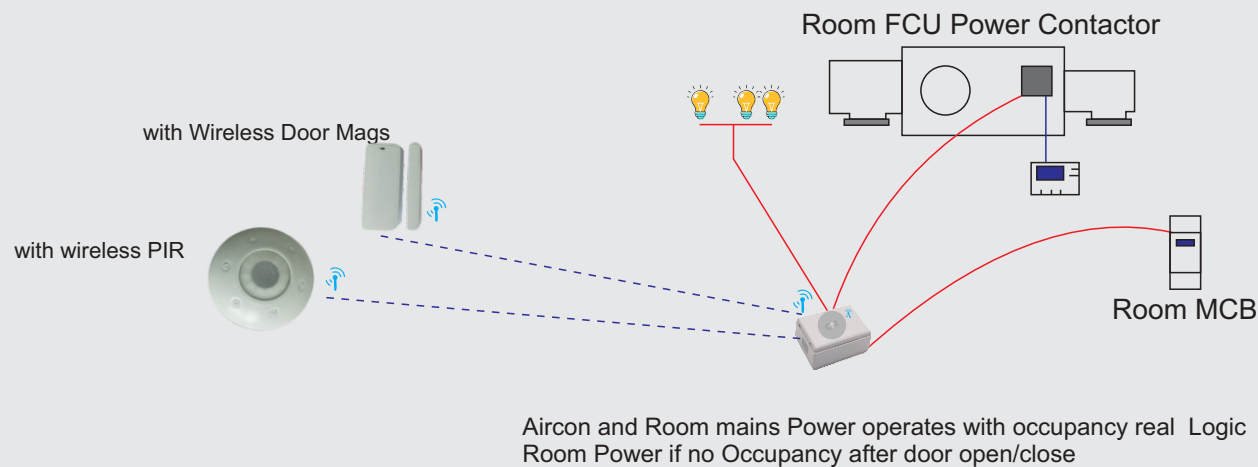
for use in example:

- Solenoid
- Siren
- Flasher
- Gate motor
- Lights
- Other



Other systems Connection Diagram

Smart Energy Wireless Hotel Power Saving





CUTTING EDGE

ELEGANT

AFFORDABLE

EXPANDABLE

SIMPLE

DURABLE

SMART

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