

ULTI EZinstall3

Home control has never been so EaZy

Wireless Smart Home Solution



Schneider
Electric







Groundbreaking Home Control

Would you like to upgrade your home to enjoy home automation? Are you hesitated with rewiring and renovation need? With ULTI EZinstall3, control everything in your home from one place, the easy way!

A state-of-the-art scene control system can be part of a larger interoperable system, or it can be a standalone retrofit system to replace mechanical switches to enable scene control on the existing circuit. However, not all retrofit scene control systems are born equal and some “retrofit” systems actually need major rewiring.

Schneider Electric believes in bringing the enjoyment of Fine Lighting to everyone. We pioneer TruRetrofit systems, our “EZinstall technology” is the easy way to apply scene control to attain Smart Home Living.

While most home control systems require extensive rewiring and troublesome home renovations in order to connect all the components, ULTI’s EZinstall3 mini home control system uses an innovative wireless network. This eliminates the need for costly and complicated rewiring but gives you all the benefits of a state-of-the-art smart home.

ULTI EZinstall3 TruRetrofit wireless technology can be installed in around five minutes. Simply remove your original switches and replace them with the ULTI design of your choice.

With ZigBee peer-to-peer standard wireless, each ULTI EZinstall3 switch becomes a node in your very own home control network. Virtually unlimited in range and scalability, your ULTI EZinstall3 network can be accessed wirelessly regardless of your decorating materials.

There’s no better and faster way to upgrade an older building with home control.



At the touch of a button

Automatic dimmable light detection

With a single touch, ULTI can recall pre-programmed light combinations. Choose the perfect ambience for an evening of family fun, elegant entertainment or a romantic dinner. However, the light bulb industry is fast evolving. Although LED and CFL lamps are currently at the forefront of lighting trends, these lights create problems with traditional dimming devices. ULTI's EZinstall3 dimtect technology automatically detects the type of bulb used and provides dimming when possible. Dimtect also provides on/off functionality for non-dimmable lamps. A fully integrated lighting control system.

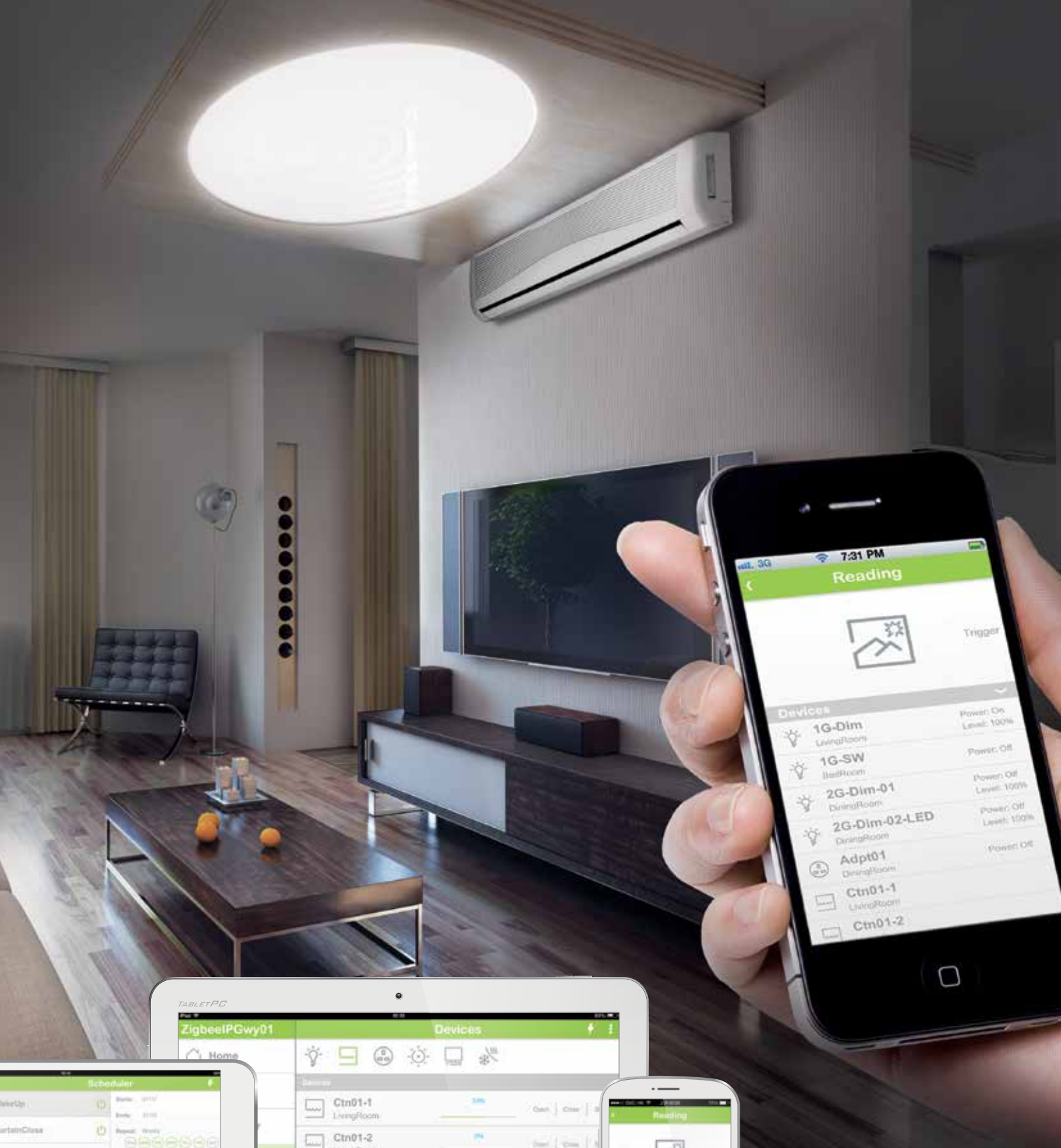
Integrated solution controls

The new generation ULTI EZinstall3 is much more than a wireless, lighting control system. Advanced technology has transformed it into a mini home control system when combined with the revolutionary ULTI IP gateway and IR converter.

The ULTI IP gateway adds a whole new level of functionality and connectivity to ULTI EZinstall3. Just connect your ULTI IP gateway with ULTI EZinstall3 devices to be able to run your home the smart way. The user interface is easy to understand and ensures effortless home control on a daily basis.

By adding a compact and inconspicuous IR converter, the ULTI EZinstall3 controls your TV. Use your mobile device to select your favorite channel, and access the volume and on/off controls. ULTI EZinstall3 can also control your air-conditioning to keep you in your comfort zone and save energy when you're not at home.







UC21DM-XBS



UC21DM-XPW



UC21DM-XCG



UC21DM-XGL

Description	Reference
1 Gang 550W Zigbee Dimming Switch	U201DST600ZB
Plastic cover plate - Brushed Silver	UC21DM-XBS
Plastic cover plate - Pearl White	UC21DM-XPW
Plastic cover plate - Champagne Gold	UC21DM-XCG
Glass cover plate - Crystal Glass	UC21DM-XGL

Product Details	
Range of Product	ULTI
Product or Component type	Universal dimmer module
Number of gangs	1
Power Range	550 W
Rated operational Voltage	220/240 V AC 50/60 Hz
Load type	Halogen, Incandescent Lamp
Height	86 mm
Width	87 mm
Depth	35.2 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Standards	IEC 60669-2-1
Load detection	dimtect technology

N.B. Please refer to Load Table 1 p.17 & Table 2 p.18 for more information



UC22DM-XBS



UC22DM-XPW



1 Gang 2000VA Switch Module



UC21SW-XBS



UC21SW-XPW



UC21SW-XCG



UC21SW-XGL

Description	Reference
1 Gang 2000VA Zigbee Switch	U201SRY2KWZB
Plastic cover plate - Brushed Silver	UC21SW-XBS
Plastic cover plate - Pearl White	UC21SW-XPW
Plastic cover plate - Champagne Gold	UC21SW-XCG
Glass cover plate - Crystal Glass	UC21SW-XGL

Product Details	
Range of Product	ULTI
Product or Component type	Switch module
Number of gangs	1
Function	Relay Switch
Rated current / Voltage	<= 9.1 A 220/240 V AC 50/60 Hz
Load type	Halogen, Incandescent, Inductive, Resistive
Height	87 mm
Width	87 mm
Depth	35.2 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Standards	IEC 60669-2-1, EN60669-2-1

N.B. Please refer to Load Table 3 p.19 for more information

2 Gang 2 x 1000VA Switch Module



UC22SW-XBS



UC22SW-XPW



UC22SW-XCG



UC22SW-XGL

Description	Reference
2 Gang 2x1000VA Zigbee Switch	U202SRy2KWZB
Plastic cover plate - Brushed Silver	UC22SW-XBS
Plastic cover plate - Pearl White	UC22SW-XPW
Plastic cover plate - Champagne Gold	UC22SW-XCG
Glass cover plate - Crystal Glass	UC22SW-XGL

Product Details	
Range of Product	ULTI
Product or Component type	Switch module
Number of gangs	2
Function	Relay Switch
Rated current / Voltage	<= 9.1 A 220/240 V AC 50/60 Hz
Load type	Halogen, Incandescent, Inductive, Resistive
Height	87 mm
Width	87 mm
Depth	35.2 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Standards	IEC 60669-2-1, EN60669-2-1

N.B. Please refer to Load Table 3 p.19 for more information

1 Gang 300VA Curtain Switch



UC21CN-XBS



UC21CN-XPW



UC21CN-XCG



UC21CN-XGL

Description	Reference
1 Gang 300VA Zigbee Curtain Control Switch	U201SCN300ZB
Plastic cover plate - Brushed Silver	UC21CN-XBS
Plastic cover plate - Pearl White	UC21CN-XPW
Plastic cover plate - Champagne Gold	UC21CN-XCG
Glass cover plate - Crystal Glass	UC21CN-XGL

Product Details	
Range of Product	ULTI
Product or Component type	Curtain switch module
Number of gangs	1
Power range	300 VA per channel
Rated operational voltage	220/240 V AC 50/60 Hz, 110/120 V AC 50/60 Hz
Load type	Motor
Height	87 mm
Width	87 mm
Depth	35.2 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Standards	IEC 60669-2-1, EN60669-2-1
Motor Rating	300VA max. 220- 240VAC at 50/60Hz 150VA max. 110- 120VAC at 50/60Hz

2 Gang 300VA Curtain Switch



UC22CN-XBS



UC22CN-XPW



UC22CN-XCG



UC22CN-XGL

Description	Reference
2 Gang 2x300VA Zigbee Curtain Control Switch	U202SCN600ZB
Plastic cover plate - Brushed Silver	UC22CN-XBS
Plastic cover plate - Pearl White	UC22CN-XPW
Plastic cover plate - Champagne Gold	UC22CN-XCG
Glass cover plate - Crystal Glass	UC22CN-XGL

Product Details	
Range of Product	ULTI
Product or Component type	Curtain switch module
Number of gangs	2
Power range	300 VA per channel
Rated operational voltage	220/240 V AC 50/60 Hz, 110/120 V AC 50/60 Hz
Load type	Motor
Height	87 mm
Width	87 mm
Depth	35.2 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Standards	IEC 60669-2-1, EN60669 -2-1
Motor Rating	300VA max. 220-240VAC at 50/60Hz 150VA max. 110-120VAC at 50/60Hz

2 Key FreeLocate Switch Module



U102RWMZB_XBS



U102RWMZB_XPW



U102RWMZB_XCG



U102RWMZB_XGL

Description	Reference
2Key Zigbee Freelocate Switch, Brushed Silver	U102RWMZB_XBS
2Key Zigbee Freelocate Switch, Pearl White	U102RWMZB_XPW
2Key Zigbee Freelocate Switch, Champagne Gold	U102RWMZB_XCG
2Key Zigbee Freelocate Switch, Crystal Glass	U102RWMZB_XGL

Product Details	
Range of Product	ULTI
Product or Component type	Free Locate switch
Number of Channels	2
Battery Type	CR2032
Operating Distance	100 m
Height	87 mm
Width	87 mm
Depth	11.8 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%

6 Key FreeLocate Switch Module



U106RWMZB_XBS



U106RWMZB_XCG



U106RWMZB_XCG



U106RWMZB_XGL

Description	Reference
6Key Zigbee Freelocate Switch, Brushed Silver	U106RWMZB_XBS
6Key Zigbee Freelocate Switch, Pearl White	U106RWMZB_XPW
6Key Zigbee Freelocate Switch, Champagne Gold	U106RWMZB_XCG
6Key Zigbee Freelocate Switch, Crystal Glass	U106RWMZB_XPW

Product Details	
Range of Product	ULTI
Product or Component type	Free Locate switch
Number of Channels	5
Battery Type	CR2032
Operating Distance	100m
Height	87 mm
Width	87 mm
Depth	13.8 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%



U105RHH001ZB

Description	Reference
Zigbee Handheld Remote Controller	U105RHH001ZB
Product Details	
Range of Product	ULTI
Product or Component type	Remote Controller
Number of Channels	5
Battery Type	2 X AAA
Operating Distance	100 m
Height	125 mm
Width	52 mm
Depth	28 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%
Function available	All off button, master dimming

500W Type G (3-Pin British Format) Plug Adaptor Dimmer



U104BD500ZB_WE

Description	Reference
500W ZigBee type G Plug Adaptor Dimmer White	U104BD500ZB_WE
Product Details	
Range of Product	ULTI
Product or Component type	Plug adaptor dimmer
Rated Operational Power in W	500 W
Rated Operational Voltage	220...240 V AC at 50/60Hz
Load Type	Incandescent, Halogen
Height	67 mm
Width	60 mm
Length	126 mm
Ambient temperature for operation	0...40 °C
Relative humidity	10...95%

EZinstall3 RS-232 ZigBee Interface



UB3Z5

Description	Reference
Zigbee to RS232 Interface	UB3Z5

Product Details	
Range of Product	ULTI
Product or Component type	RS-232 Zigbee Interface
Rated Current	500 mA
Rated Operational Voltage	5...12 V
Network Type	DC
Height	81.6 mm
Width	73.1 mm
Depth	25.4 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...95%

ZigBee IR Converter for ULTI ZigBee

Description	Reference
ZigBee IR Converter for ULTI ZigBee	U30IRSDMZB

Product Details

Range of Product	ULTI
Product or Component type	ZigBee to IR Converter
Operation altitude	<= 2000m
Rated Operational Voltage	DC 5V / 4 AAA batteries
Rated current	1A

Network type

ZigBee IP Gateway for ULTI ZigBee



U30IPGWZB

Description	Reference
Zigbee to RS232 Interface	U30IPGWZB
Product Details	
Range of Product	ULTI
Product or Component type	Bridge Ethernet/WLAN to ZigBee network
Operation altitude	<= 2000m
Rated Operational Voltage	DC 5V
Rated current	1A
Network Type	Ethernet : IEEE 802.3 10/100 Base T ZigBee : IEEE 802.15.4 ZigBee-Pro Standard (2.4GHz, ISM Band) WLAN : IEEE 802.11 b/g/n (2.4GHz ISM Band)
Height	78.0 mm
Width	78.0 mm
Depth	21.8 mm
Ambient temperature for operation	0...40 °C
Relative humidity	0...90%



U30010V

Description	Reference
0-10V Dimmer interface	U30010V
Product Details	
Range of Product	ULTI
Product or Component type	Dimmer interface
Operation altitude	<= 2000m
Analog output range	DC 0...10V
Rated current	1A
Load type	AC load : 10A/8AX (Capacitance loads). Sink source current: 40mA for 0-10V DC or 1-10V DC dimmer interface. Selection switch: 0-10V DC or 1-10V DC
Distance between centers	163 mm
Height	39 mm
Width	43.5 mm
Length	178.5 mm
Ambient air temperature for operation	0...60°C
Relative humidity	10% - 95% RH, no condensing
Standards	IEC60669-2-1

1 Gang 16A ZigBee Double Pole Switch



U301SDP16AZB

Description	Reference
1 Gang 16A ZigBee Double Pole Switch	U301SDP16AZB
1 Gang DP Switch Cover, Brushed Silver	UC21DP-XBS
1 Gang DP Switch Cover, Champagne Gold	UC21DP-XCG
1 Gang DP Switch Cover, Crystal Glass	UC21DP-XGL
1 Gang DP Switch Cover, Pearl White	UC21DP-XPW

Product Details	
Range of Product	ULTI
Product or Component type	Switch Module
Operating mode	Manual operation
Rated operational power	16A max
[Ue] rated operational voltage	220-230Vac at 50/60 Hz
Local signalling	LED
Load type	Motor Load
Height	87.0 mm
Width	86.0 mm
Depth	42 mm
Network type	IEEE 802.15.4 ZigBee-Pro Standard (2.4GHz, ISM band standard)
Ambient temperature for operation	0...40 °C
Relative humidity	10% - 95%
IP degree of protection	IP20
Standards	IEC 60669-2-1

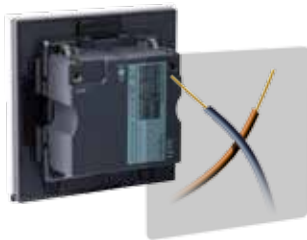
EZinstall3 - Groundbraking Wireless Lighting Control

2-wire TruRetrofit



Enable direct and easy replacement of mechanical switches

2-wire retrofit requires no neutral wires, easy installation, without hassle on rewiring.



ZigBee radio frequency

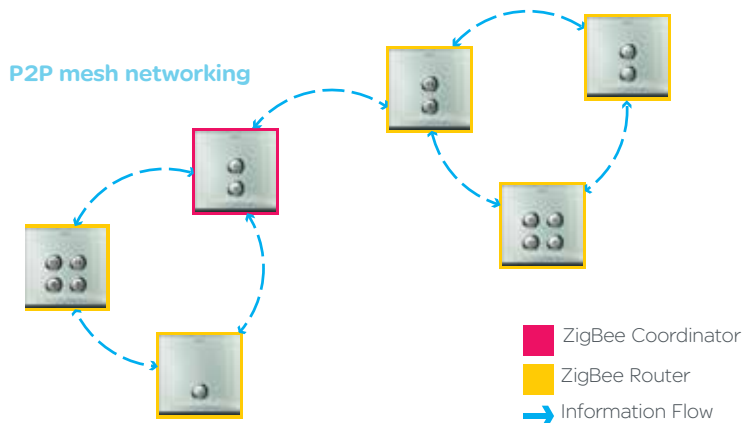


ZigBee specifies the global Peer-to-Peer wireless mesh networking standard with no virtually limitation in range and scalability

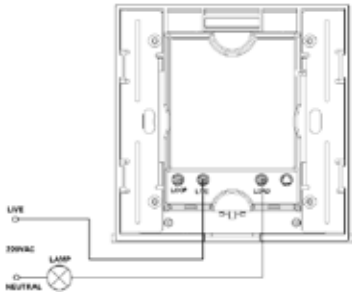
ZigBee protocol is based on the IEEE802.15.4 standard, works on 2.4GHz radio frequency, It minimizes noise interference, offer a more reliable wireless control.

ZigBee specifies the global Peer-to-Peer wireless mesh networking standard with no virtually limitation in range and scalability, no worry about the type of decorating materials that will affect the quality of remote control.

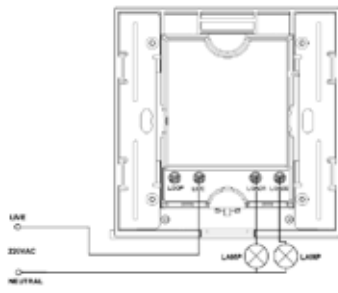
ZigBee protocol can also integrate with other security, audio or video system with ZigBee.



Wiring Diagram - Dimmer



1-Gang Dimmer



2-Gang Dimmer

IMPORTANT NOTE: Install one 275VAC X 2 safety grade 0.33 μ F by-pass capacitor across load (in parallel, as shown below) if recommended in the load tables.

The above procedure is applicable to switch also.

Load type tables

Table 1: Power rating of loads type (Dimming Mode)

The below table lists the minimum and maximum power rating of load type for 1 Gang and 2 Gang dimmers at following conditions:
 Input voltage: 220~240V AC at 50Hz
 Ambient temperature: 0 - 40°C

Load Type	Minimum load rating (W)		Overall maximum load rating (W)		Safety grade capacitor 275VACX2 0.33 μ F (install in parallel to load on each gang)
	1 Gang (Overall)	2 Gang (Each Gang)	1 Gang	2G (Max on single gang) / Max (total of 2 gangs)	
Incandescent lamp / High voltage halogen lamp	25	25	550	400W / 600W	No
Dimmable iron-core / magnetic transformer for low voltage halogen lamp	25	25	550	400W / 600W	No
Dimmable electronic transformer (EMC compliant) for low voltage halogen lamp	25	25	550	400W / 600W	No
Dimmable CFL	12	12	365	265W / 395W	Yes*
Dimmable LED	12	12	365	265W / 395W	Yes*

*Owing a wide variety of CFL & LED lamps available and a varying ballast/driver technology used within these lamps it is recommended to install a by-pass capacitor.

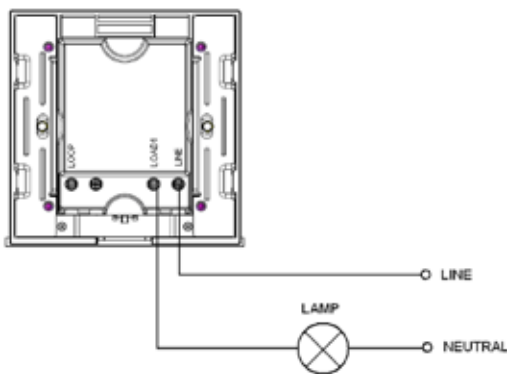
Table 2: Power rating of loads type (Switch Mode)

The below table lists the minimum and maximum power rating of load type for 1 Gang and 2 Gang dimmers at following conditions:
 Input voltage: 220~240V AC at 50Hz
 Ambient temperature: 0 - 40°C

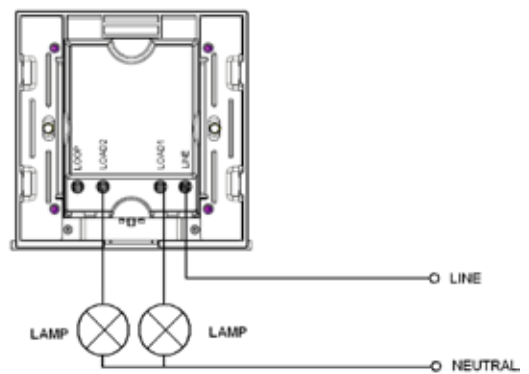
Load Type	Minimum load rating (W)		Overall maximum load rating (W)		Safety grade capacitor 275VACX2 0.33µF (install in parallel to load on each gang)
	1 Gang (Overall)	2 Gang (Each Gang)	1 Gang	2G (Max on single gang) / Max (total of 2 gangs)	
Incandescent lamp / High voltage halogen lamp	25	25	550	400W / 600W	No
Iron-core / magnetic transformer for low voltage halogen lamp	25	25	550	400W / 600W	No
Electronic transformer (EMC compliant) for low voltage halogen lamp	25	25	540	400W / 600W	No
CFL / LED	12	12	135	100W / 150W	Yes*
Dimmable CFL / LED	12	12	365	265W / 395W	Yes*

*Owing a wide variety of CFL & LED lamps available and a varying ballast/driver technology used within these lamps it is recommended to install a by-pass capacitor.

Wiring Diagram – Switch



1-Gang
2000VA Switch



2-Gang 2 x
1000VA Switch

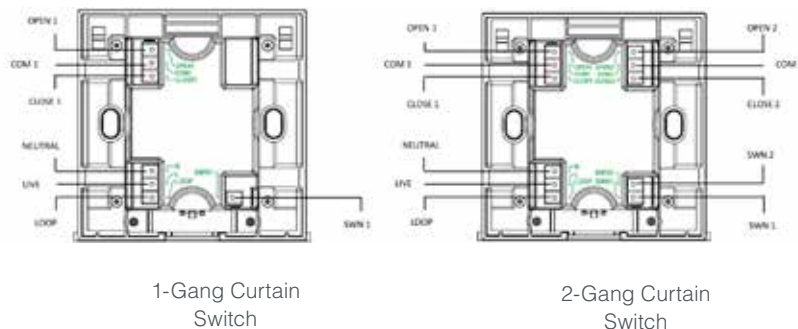
Table 3: Power rating of loads type (Switch)

The below table lists the minimum and maximum power rating of load type for 1 Gang and 2 Gang switches at following conditions:
 Input voltage: 220~240V AC at 50Hz
 Ambient temperature: 0 - 40°C

Load Type	Overall minimum load rating (W)		Overall maximum load rating (W)		Safety grade capacitor 275VACX2 0.33µF (install in parallel to load on each gang)
	1 Gang	2 Gang	1 Gang	2 Gang	
Incandescent lamp / High voltage halogen lamp	25	25	2000	2000	No
Iron-core / magnetic transformer for low voltage halogen lamp	25	25	1600	1600	No
Electronic transformer for low voltage halogen lamp	25	25	1800	1800	No
Magnetic ballast without power factor correction capacitor for real fluorescent lamp	18	18	800	800	Yes
Magnetic ballast with 4µF power factor correction capacitor for real fluorescent lamp	18	18	2000	2000	No
Electronic ballast for real fluorescent lamp	18	18	1800	1800	No
Electronic ballast for real fluorescent lamp (Circular type, U type)	13	13	1800	1800	Yes
CFL	7	7	500	500	Yes
Dimmable CFL	7	7	500	500	No
LED	9	9	500	500	Yes
Dimmable LED	9	9	500	500	No
Motor (Ceiling / exhaust fan)	25	25	2A	2A	No

For motor load like ceiling sweep fan / exhaust fan, the overall minimum load for 1 Gang and 2 Gang are both 25W. The overall maximum load for 1 Gang and 2 Gang is 2A (approx. 260W)

Wiring Diagram – Curtain Control Switch



* Make the most of your energy

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