

# INGENIUM® ZB Universal Dimming Module



## Key Features & Benefits

- Connects with INGENIUM® ZB or other major Zigbee compatible systems to enjoy advanced lighting control features.
- Voice controlled: Works with Amazon Alexa and Google Assistant when combined with INGENIUM® ZB gateway (sold separately). It can also be connected directly to the Amazon Echo Plus/ Echo Show/ Echo Studio.
- Output power: maximum 250VA LED load or 500W resistive load.
- Universal dimming mode: User selectable between automatic load sensing, leading or trailing edge dimming modes<sup>^</sup>.
- Plug and Play: Easy to install and easy to use. INGENIUM® ZB Universal Dimming Module has a compact dimensional profile and it is compatible with standard switch boxes.
- Wall switch control: Works with momentary switch (not included) to operate the dimming module locally.

The INGENIUM® ZB Universal Dimming Module is a phase cut controller<sup>^</sup> for use with multiple LED dimmable lamps and fixtures. It can easily be installed to control your home lighting with smartphone/tablet, or through voice commands with Amazon Alexa and Google Assistant. Simply use with a ZigBee compatible hub such as the INGENIUM® ZB, Philips Hue, Samsung SmartThings or Amazon Echo devices (Echo Plus/ Echo Show/ Echo Studio)

<sup>^</sup> Preconfigured in leading edge dimming mode.

## Applications

- Residential
- Small business

## Compatibility



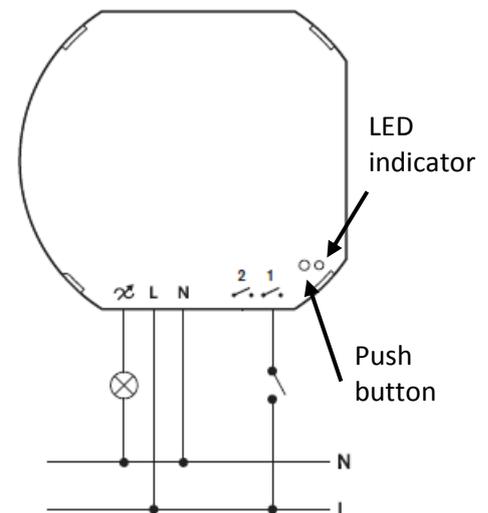
## GENERAL INFORMATION

Input Voltage / Frequency	220-240 VAC 50Hz
Max. Output Power	250VA (LED load) 500W (Resistive load)
Standby Power	< 0.5W
Dimmable	Yes
Dimming Mode	Phase Cut - leading edge or trailing edge
Protocol	Zigbee
Frequency Band	2400 – 2483.5MHz
Starting Time [sec]	< 0.5
Operating temperature	-20°C—45°C
Housing Material	Flame retardant housing (V-0); black, RAL 9005
Approvals	2014/53/EU, 2014/30/EU, 2014/35/EU, 2012/19/EU, 2011/65/EU, EN 300328, EN 300440, EN 301489, Zigbee 3.0

## PRODUCT WIRING CONNECTION

Wire	Usage
 - Red wire	Output load live wire
L - Brown wire	Mains input live wire
N - Blue wire	Mains input neutral wire
 - White wire	Switch input port 1* (connect to a momentary switch)
 - Grey wire	Switch input port 2* (not use)
LED indicator	Green colour LED indicator
Push button	To perform device pairing reset

\*Insulate with electrical tape if those wires were not in use

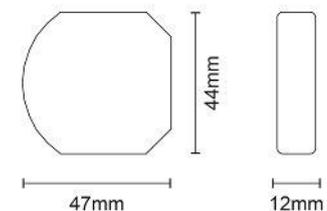


## PRODUCT INFORMATION

Model No.	MM Code
ZBM01d	406306/ MM08082

## DIMENSIONS & WEIGHT

Model No.	L	W	H	Weight
	mm	mm	mm	g
ZBM01d	47	44	12	33



## LOGISTIC INFORMATION

Model No.	Packaging Unit	Outer Box Dimensions			Gross Weight per Outer Box
		L	W	H	
	pcs/unit	mm	mm	mm	kg
ZBM01d	60	427	322	215	5.5