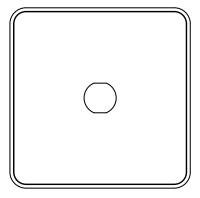
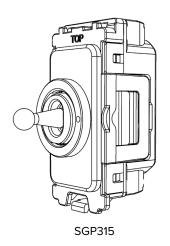


# 1 Gang 150W Smart Toggle Switch - Edged



12-GRD132

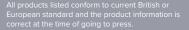




# **Contents**

12-GRD132 1 Gang Circular Hole Grid Plate - Edged			
	-10-PLT132 1 Gang Circular Hole Flat Grid Plate		
	-10-EDG013 Single Edged Type Gasket		
	SGPYLK-12 Single Grid Frame (Yoke)		
SGP315	20A 2 Way & Off Retractive CM-Grid Toggle Switch - Grid Module		
Enkin ZDM150	150W LED Zigbee Module		
Trademarks	The Soho Lighting Company is a registered trade mark number: UK00003313349,		





Illustrations and diagrams are reproduced within the limitations of reproduction and printing process and are not binding.

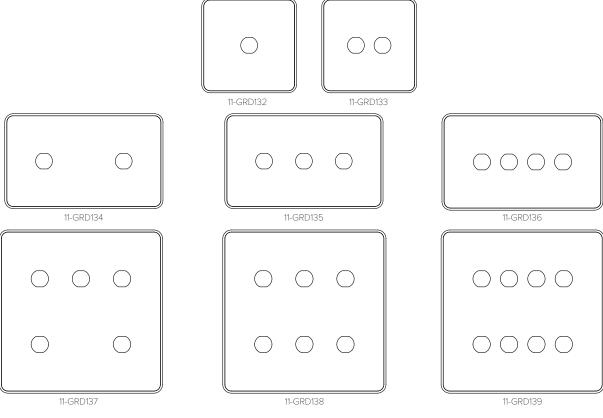
EU017906396, Date: 25 May 2018

Due to manufacturing processes we cannot guarantee an exact colour match and shadings of certain finishes.



# 11-GRD132-139





#### **TECHNICAL SPECIFICATION**

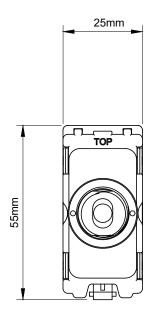
Standard(s)	BS 5733 (Where Applicable)		
Mounting Box Depth (Recommended)	47mm		
Earth Terminal Capacity	3 × 2.5mm <sup>2</sup> , 2 × 4.0mm <sup>2</sup> , 1 × 6.0mm <sup>2</sup> (EARTH)		
Fixing Centres	60.3mm (Single width) 120.6mm (Double Width)		
Size - (1 Gang) 11-GRD132	90mm x 90mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (2 Gang) 11-GRD133	90mm x 90mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (2 Gang) 11-GRD134	90mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (3 Gang) 11-GRD135	90mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (4 Gang) 11-GRD136	90mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (5 Gang) 11-GRD137	150mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (6 Gang) 11-GRD138	150mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Size - (8 Gang) 11-GRD139	150mm x 150mm x 4mm (Plate Thickness Inc. Gasket)		
Product Class 1	Face plate must be earthed		
Ambient Operating Temperature	-5° to +40°C		
Recommended Location	Internal Use Only		
Maximum Installation Altitude	2000m		
IP Rating	IP2XD		
Trademarks	The Soho Lighting Company is a registered trade mark number: UK00003313349, EU017906396, Date: 25 May 2018		

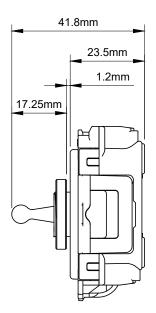


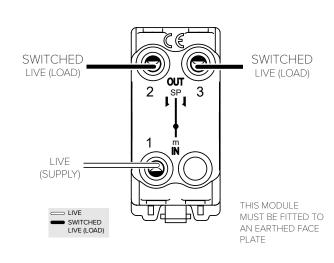




# 20A 2 Way & Off Retractive CM - Grid Toggle Switch Module







#### TECHNICAL SPECIFICATION

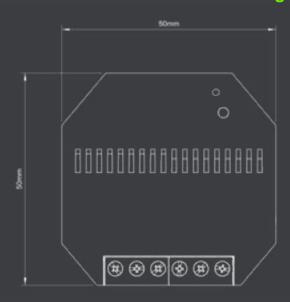
Standard(s)	BS EN 60669-1		
Voltage Rating	20 Amp, 250V~ (20AX – no derating for inductive or fluorescent loads)		
Contact Gap	Mini-gap		
Mounting Box Depth (Min)	35mm		
Terminal Capacity	4x 1.5mm², 2x 2.5mm² & 1x 4.0mm²		
Size	55mm x 25mm x 41.8mm		
Product Class 1	Face plate must be earthed		
Ambient Operating Temperature	-5° to +40°C		
Recommended Location	Internal Use Only		
Maximum Installation Altitude	2000m		
IP Rating	IP2XD		
Switched Poles	Single		
Mains Frequency	50hz - 60hz		
Contact Gap Minimum	3mm		
Trademarks	The Soho Lighting Company is a registered trade mark number: UK00003313349, EU017906396, Date: 25 May 2018		

# ENKIN

## **ZDM150**

# **Enkin 150W LED Zigbee Module**





Markings & Standard(s) CE, UKCA, BS EN 60669-2-1

**Zigbee Protocol** 3.0

Operating Voltage 220-240V AC

Main Frequency 50Hz

Minimum Load 2W LED (2W Incandescant / Halogen)

Maximum Load 150W LED (150W Incandescant / Halogen)

Switch Type Multi way (retractive switch), (2way up/down retractive switch)

**Dimming Protocol** Trailing edge & leading edge phase control

Mounting Box Depth (Min) 35mm

Terminal Capacity 1 x 4mm<sup>2</sup> / 1 x 2.5mm<sup>2</sup> / 3 x 1.5mm<sup>2</sup> / 4 x 1mm<sup>2</sup>

Terminal Markings 2 x 'C' (live), '1' x L (load), '1' x for one way push retractive switch, '2' x for 2 way retractive switch

**Neutral Required No** 

**Short Circuit Protection** Yes

**Overload/Overcurrent Protection** Yes

Thermal Protection Yes - Thermal resettable fuse

Soft Start Yes

Power Failure Previous state recall

Memory Yes, non volatile

Min/Max Level Setting Yes - Following a defined procedure

**Driving Mode** Yes - TE & LE mode change following a defined procedure

Product Dimensions 50mm x 49.5mm x 15.1mm

Climate Range 0°C to 40°C, Humidity 0% to 95% non-condensing

Recommended Location Indoor use only

**Maximum Installation Altitude** 2000m

**IP Rating IP2XD** 

Trademarks Enkin is a trading name of Trade Ivy. Registered in England Number: 10809945. Copyright © 2021





# **ZDM150**

# **Enkin 150W LED Zigbee Module**

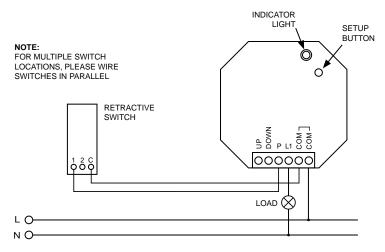
Operating Voltage	240V ac	
Nominal Operating Freq.	50 Hz	
Dimming Technique	Trailing & Leading Edge Phase Control	
Compliance	BS EN 60669-2-1	

Load Symbol	Compatible Loads	Max Load	Min Load
-15-	Dimmable LED lighting	150W TE 100W LE	2W
- <u>Ö</u> -	240V Incandescent & Halogen lamps	150W TE 100W LE	2W
Low voltage lighting with electronic transformers		150W TE 100W LE	2W

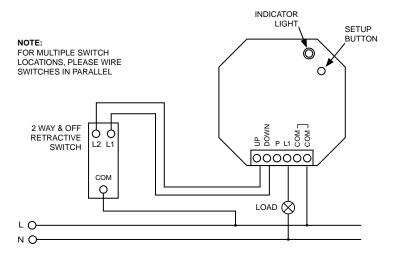
Multi-Gang Switch De-Rating Chart						
1 Gang	2 Gang	3 Gang	4 Gang	5 Gang		
150W	127W	105W	82W	60W		

# WIRING EXAMPLES

#### **ONE-WAY PUSH RETRACTIVE SWITCH WIRING OPTION**

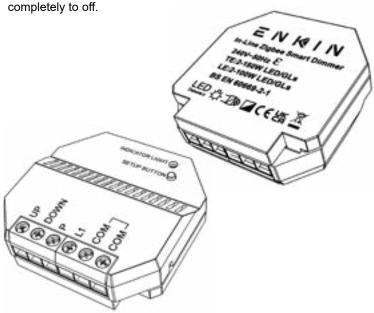


#### **TWO-WAY & OFF PUSH RETRACTIVE SWITCH WIRING OPTION**



## **IMORTANT NOTE:**

Some driverless products can still operate with a small amout of residual current present, such as LED strip lighting etc, it may be necessary to fit a bypass device to allow this product to dim



## **DIMMER SETUP**

**NOTE:** Manual control of the On/Off function and dimming up and down can also be achieved with a connected Retractive Switch, or multiple (parallel) Retractive Switches. Please refer to example circuit diagrams to the right of this text for some connection examples of this option.

A fast click of the retractive switch will turn the lamp (or Load) on and off, holding the switch will alternately dim the lamp up or down, release the switch when desired lamp brightness has been achieved.

The minimum/maximum level and dimming mode can be manually adjusted by following the procedures below.

#### **SETTING THE MINIMUM LEVEL**

- 1. Whilst on, adjust dimmer to your desired minimum brightness.
- 2. Push the rear setup button 3 times within 2 seconds.
- The LEDs will step up and down in brightness once to confirm the setting has been saved.

#### **SETTING THE MAXIMUM LEVEL**

- 1. Whilst on, adjust dimmer to your desired maximum brightness.
- 2. Push the rear setup button 5 times within 3 seconds.
- The LEDs will step up and down in brightness once to confirm the setting has been saved.

### FACTORY RESET FOR MIN/MAX BRIGHTNESS

- Please note this factory reset will reset all the min and max brightness settings.
- 2. Whilst on, push the rear setup button 7 times within 5 seconds.
- The LEDs will step up and down in brightness three times to confirm that the min/max setting has been cleared.

#### **CHANGING THE DIMMING MODE**

The default mode of the dimmer is Trailing Edge, but it can be put into Leading Edge if required. Please ensure that you know the correct mode for your lamp.

- 1. Whilst on, push the rear setup button 9 times within 5 seconds.
- 2. The LEDs will step up and down in brightness twice to confirm the setting has been changed to Leading Edge mode.

#### NOTE:

To switch back to Trailing Edge mode, just repeat the process again, the LEDs will step up and down once to show the dimmer is back in Trailing Edge mode.