



# Technical Data

## Dimmer Switches - Push Type

### Brief product description:

The subtle design will blend with any décor - suitable for domestic or commercial installations.

### Features:

- Stylish modern profile
- Covers to conceal fixing screws
- Supplied with spacer adaptor plate

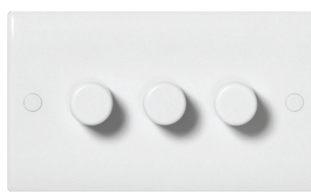
### Product Images



881P/885P



882P



883P



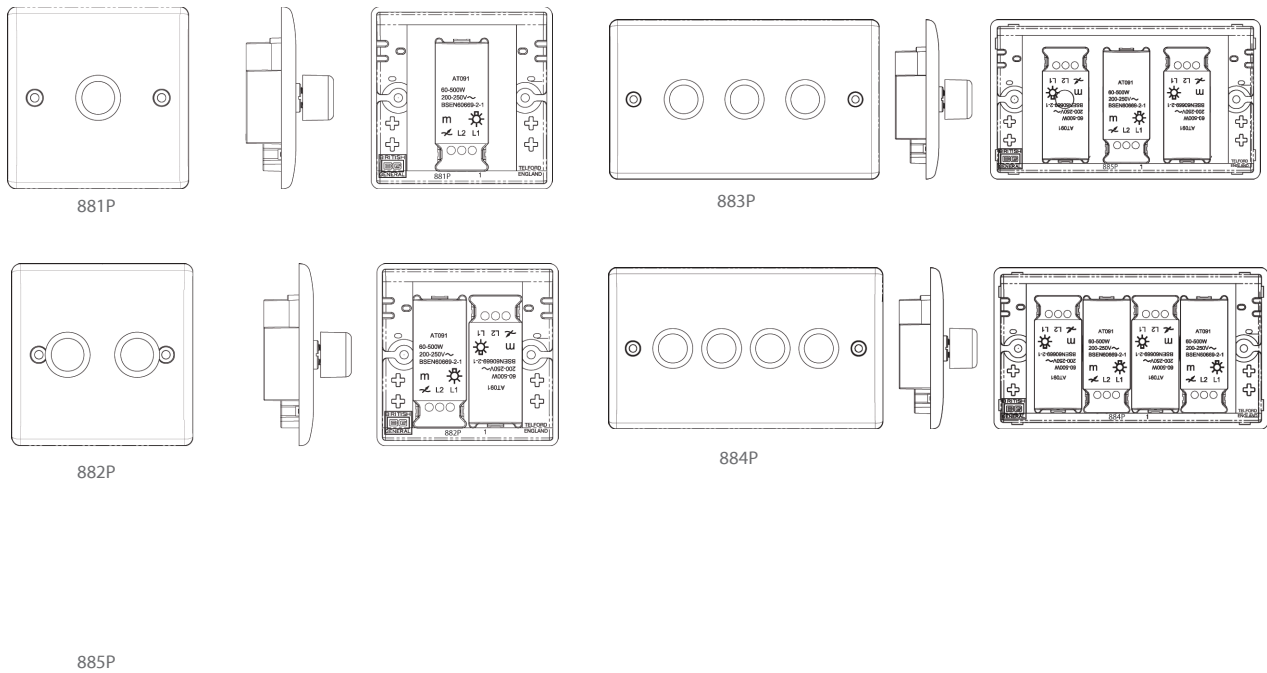
884P

### Technical Specifications

Standard(s)	BS EN 60669-2-1
Rating	60 - 400W
Terminal Capacity - L & N	3 x 1mm <sup>2</sup> 2 x 1.5mm <sup>2</sup> 1 x 2.5mm <sup>2</sup>
RoHS Directive	No
WEEE Directive	No
Mounting Box Depth(Min)	25mm
Fixing Centres	60.3mm (881P, 882P, 885P products) 120.6mm (883P, 884P products)
Size	86mm x 86mm x 41.2mm (881P, 882P, 885P products) 146.5mm x 86mm x 41.2mm (883P, 884P products)

# Dimmer Switches - Push Type

## Line Diagrams



## Packaging Information

Cat No.	Description	Packaging Type			Pack Quantity			Barcode		
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Individual	Inner Box	Outer Box
881P	1 Gang, 2 Way 400W	Nexus PolyBag	Nexus Inner	Nexus Outer	1	10	100	5050765002592	/	/
882P	2 Gang, 2 Way 400W	Nexus PolyBag	Nexus Inner	Nexus Outer	1	10	100	5050765002622	/	/
883P	3 Gang, 2 Way 400W	Nexus PolyBag	Nexus Inner	Nexus Outer	1	5	50	5050765002653	/	/
884P	4 Gang, 2 Way 400W	Nexus PolyBag	Nexus Inner	Nexus Outer	1	5	50	5050765002684	/	/
885P	1 Gang, 2 Way 1000W	Nexus PolyBag	Nexus Inner	Nexus Outer	1	5	50	5050765018142	/	/

## Weights & Dimensions

Cat No.	Description	Dimension (W x L x H) cm			Weight (g)			CMB (m <sup>3</sup> )
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Outer Box
881P	1 Gang, 2 Way 400W	9.2 x 9.2 x	18 x 22.5 x 9.2	37 x 49.5 x 23.5	18	1285	13600	0.029
882P	2 Gang, 2 Way 400W							
883P	3 Gang, 2 Way 400W							
884P	4 Gang, 2 Way 400W							
885P	1 Gang, 2 Way 1000W							

## Installation Information

### Safety Warning

Before use please read carefully and use in accordance with these safety wiring instructions.

Before commencing any electrical work ensure the supply is **switched off at the mains**. Either by switching off the consumer unit or by removing the appropriate fuse.

Wiring should be in accordance with the latest edition of the IEE regulations (BS 7671).

### Wire Identification – Twin & Earth Cable

**EARTH** = Green/Yellow Sleaving

**NEUTRAL** = Black (pre Apr 04) / Blue (after Apr 04)

**LIVE** = Red (pre Apr 04) / Brown (after Apr 04)

The ends of the individual conductors should have the insulation removed by approx. 12mm. Any bare earth conductors should be sleeved to within 12mm of the ends. (These details are for general information only and conductor lengths may need to be trimmed in certain installations).



**Technical Helpline: 0845 194 7584**  
If in doubt consult a competent electrician.

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## Installation Information

### General Installation Instructions

- 1) If using the new product to replace an old one, note the cable connections and wire up new product in the same way as the old one, with Earthing as stated in these instructions.
- 2) Ensure the mounting box (metal or plastic) for either flush or surface mounting is the appropriate size for the product.
- 3) Route the cable through the most suitable entry point of the mounting box. If a metal box is used, a protective cable grommet should be used.
- 4) Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors so that an adequate length enters the terminals.
- 5) Carefully arrange the wiring to lie along the edges of the product or box, keeping the central area clear.
- 6) To assist with the correct installation please consult the appropriate wiring diagram on this leaflet.
- 7) When connecting the new accessory ensure that only the bare end of the wire enters the terminal, and no bare wires are visible.

Always tighten the terminal screws securely, but do not overtighten.

An earth connection should always be made between the mounting box earth terminal, and the accessory earth terminal, where fitted. If this earth wire is bare, it is essential that it is sheathed with a length of green/yellow sleeving.

8) Carefully position the accessory into the wall box, ensuring that no wires are trapped between the plate and the wall. Do not overtighten the screws. (Fit screw covers + clip-on)

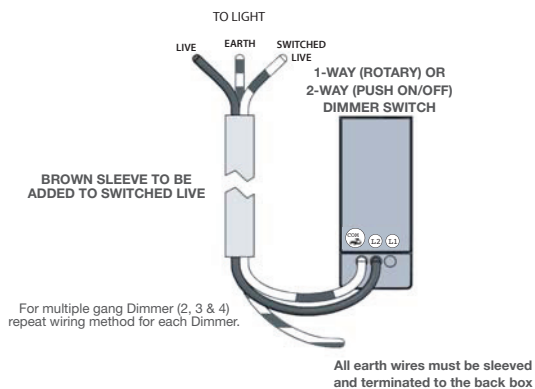
9) Once work has been completed correctly, replace the fuse for the circuit, switch the power back on, and test.

The product is now ready for use.

\* Note - If your installation uses a four lug metal mounting box, remove the top and bottom lugs or bend fully back.

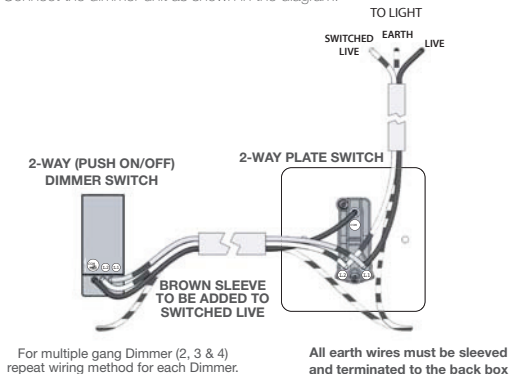
### One Way Switching

One way switching is used in installations where the lights are switched from just one position. Connect the dimmer unit as shown in the diagram.



### Two Way Switching

Two way switching is used in installations where a light is controlled from two separate positions. The dimmer may replace only one of these switches, and may be fitted in either position. Connect the dimmer unit as shown in the diagram.



### 1000W Dimmer (Export Only)

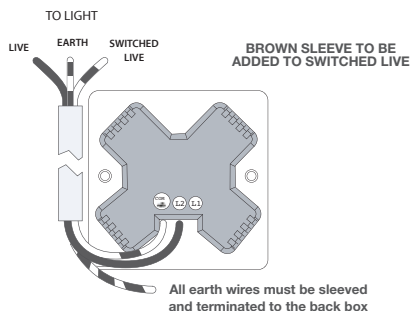


Plate Size	No. of Dimmers	Max. each Dimmers	Min. each Dimmers	Max. total per plate
Square plates 86mm x 86mm	1	250W	40W	250W
	1	400W	60W	400W
	1	630W	60W	630W
	2	250W	40W	250W
	2	400W	60W	630W*
*Maximum load of 630W for the plate should not be exceeded.				
Plate Size	No. of Dimmers	Max. each Dimmers	Min. each Dimmers	Max. total per plate
Rectangular plates 86mm X 146mm	1	1000W	150W	1000W
	2	630W	60W	1000W*
	3	250W	40W	750W
	3	400W	60W	1000W*
	4	250W	40W	1000W*
4	400W	60W	1000W*	
*Maximum load of 630W for the plate should not be exceeded.				

### Please Note:

The dimmer is a LEADING EDGE type.

The dimmer unit will emit a faint buzz and may become warm while in operation, this is quite normal and no cause for concern.

### Tungsten Lighting

Tungsten dimmers are not suitable for dimming any transformer, low voltage, fluorescent or motor loads.

Mains voltage tungsten halogen lamps may be dimmed, but the maximum rating of the dimmer must be de-rated by 50% (i.e., a 40-250W dimmer must be treated as 40-125W, a 60-400W dimmer as 60-200W, etc.)

### Low Voltage Lighting

2-Way (Push ON/OFF) low voltage dimmers are only suitable for dimming wire wound laminated and some dimmable electronic transformers.

They are not suitable for dimming toroidal transformers, Fluorescent or Tungsten Lamps. Many electronic transformers are not dimmable and many which claim to be dimmable may not be compatible. Most UK dimmers, use a 'leading edge' principle, therefore, transformers which require a 'trailing edge', 'falling edge', 'phase lagging' or 'transistor' dimmer, must not be used. To dim any compatible transformer, a low-voltage (inductive) dimmer must always be used.

These are not 'inductive only' dimmers.

The dimmer VA rating refers to the total circuit load, not lamp load. Allow for transformer losses. Typically 20% (or 15% for electronic transformers). Therefore, maximum load for 400VA dimmer becomes 330W (350W electronic), and 250VA becomes 210W (215W for electronic).

Low voltage dimmers should be connected on the 'mains side' of the transformer.

Load resistors are not required.

Transformers should be installed in accordance with the manufacturer's instructions. If setup with laminated transformer either buzzes excessively or lights flicker, it may be necessary to install a snubber circuit across the transformer primary. (one per dimmer circuit).