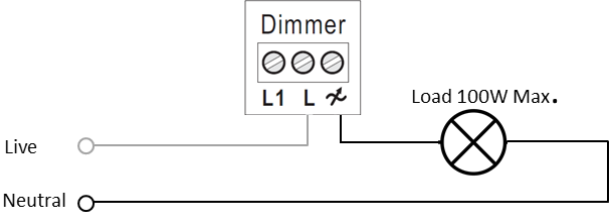
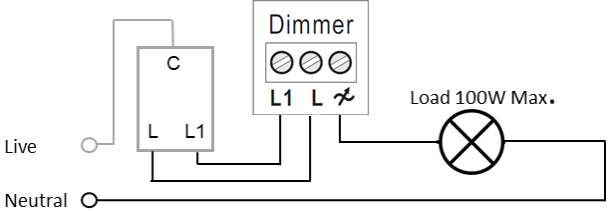


|                 |                            |                         |
|-----------------|----------------------------|-------------------------|
| <b>Slimline</b> | <b>S1410 &amp; S1411</b>   | Dimmer Switch 1g and 2g |
|                 | <b>S1412 &amp; S1413</b>   | Dimmer Switch 3g and 4g |
| <b>Décor</b>    | <b>SD1410 &amp; SD1411</b> | Dimmer Switch 1g and 2g |

To be read in full before installation and kept for future reference

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Dimmer Features</b></p> <ul style="list-style-type: none"> <li>• This Dimmer Switch is suitable for <b>Dimmable LED Lamps, Halogen and Incandescent Lamps</b></li> <li>• Ideal for controlling the <b>DETA</b> range of <b>Fire Rated Dimmable LED</b> Downlights</li> <li>• This dimmer is suitable for trailing edge LED load</li> <li>• Control other load types, e.g. tungsten halogen, incandescent, low voltage electronic transformers</li> <li>• Soft Start to increase lamp life, particularly for MV and LV lamps</li> <li>• Overload protection will automatically turn off the lamp until the overload is removed, dimmer cools down and then resets itself</li> <li>• Push on / Push off control for ease of operation</li> <li>• Suitable for 1-way and 2-way switching</li> </ul>                                                                                                                                                                                                                                                                                                  | <p><b>Batch Number</b></p> <p>Please <b>record the batch number</b> printed on the side of the module on the back of the product. The batch number is in the form ##Y## A#.</p> <p>BATCH N°: _____ Y _____ A _____</p> <p>This will assist us in providing any technical support you may require.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Safety Instructions</b></p> <p>Read these instructions carefully. Incorrect installation may damage the dimmer beyond repair.</p> <ul style="list-style-type: none"> <li>• This dimmer switch must be installed in accordance with the latest edition of the IET Wiring Regulations</li> <li>• Always switch off the electrical supply before commencing installation.</li> <li>• Do not overload the dimmer – this may damage the dimmer beyond repair.</li> <li>• If the dimmer is to be used to control tungsten halogen lamps, de-rate the dimmer to 75% of the maximum load.</li> <li>• Use only on an electricity supply of 220-240 volts AC</li> <li>• When controlling the load from two positions, it is only possible to have one dimmer switch. The other needs to be a 2-way switch.</li> <li>• Ensure that the mounting box is at least 25mm deep.</li> <li>• Metal mounting boxes must be earthed.</li> </ul> <p><b>If in doubt, contact a qualified electrician.</b></p> <p><b>IMPORTANT:</b><br/>Read “Loading Advice” section overleaf before installing this dimmer switch.</p> | <p><b>Installation Instructions</b></p> <ol style="list-style-type: none"> <li>1. Switch off the mains supply before commencing the installation.</li> <li>2. If removing the existing switch, disconnect the wiring from the switch terminals at the rear and take note of the present wiring of the switch and the marking on the terminals.</li> <li>3. Ensure that any mounting box is free of plaster lumps or projecting screw heads. 1g dimmers can fit into a 25mm back box; 2g dimmer switches need a 35mm back box to allow for heat dissipation.</li> <li>4. These dimmer switches can be installed in boxes with two mounting lugs only. Other mounting lugs need to be removed or bent flat.</li> <li>5. Terminate the dimmer switch in accordance with the diagrams in the Wiring Instructions section. Take care that no bare wires project out of the terminals. Keep wires together in a terminal if they were together in your old switch.</li> <li>6. Dimmer switches having a metal front plate must be earthed by means of the earthing point on the dimmer.</li> <li>7. After connecting the wires screw the dimmer switch gently into the wall box so that the front plate does not distort or crack. Do not trap the wiring between the rear of the dimmer and the back of the wall box.</li> </ol> <p>You may need to refer to these instructions if you change your lights to a different type at a later date so please keep them for reference.</p> |
| <p><b>Wiring Instructions – Typical Lighting Circuits</b></p> <p>This dimmer switch is suitable for 1-way or 2-way lighting circuits. There are three terminals per module.</p> <p><b>1-way Circuits</b><br/>In 1-way lighting circuits the loads are controlled by one dimmer switch. Follow the wiring in Figure 1.</p> <p>L live supply,  load</p> <p><b>2-way Circuits</b><br/>2-way lighting circuits have two switches turning the same loads on and off from two different locations (e.g. at the top and bottom of the stairs), however only <b>one</b> of these can be a dimmer switch, the other must be a 2-way switch. Follow the wiring in Figure 2.</p> <p>L live supply,  load, L1 switch live</p>                                                                                                                                                                                                                 |  <p>Figure 1.</p>  <p>Figure 2.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Dimmer Operation

- For switching on and off, push on/push off the dimmer knob
- Turn the dimmer knob to adjust the brightness

### Operation from switch when 2-way switching

- Operating the 2-way switch will switch light on or off

## Optimising the Performance of Your Dimmer Switch

This dimmer switch is preset for optimum control of Deta LED Dimmable Fire Rated Downlights.

Additionally, the minimum brightness setting of the dimmer can be adjusted to achieve the optimum dimming range for a load. See “*Compatibility and Loading Advice*” below. Also see “*Adjusting the Minimum Brightness*” below.

## Adjusting the Minimum Brightness

The minimum brightness level can be adjusted mechanically to achieve the optimum dimming range for a particular load.

1. Push the dimmer knob to switch on the load and rotate the dimmer knob to maximum brightness.
2. Remove the dimmer knob by pulling it away from the dimmer to gain access to the dimmer spindle (Figure 3).

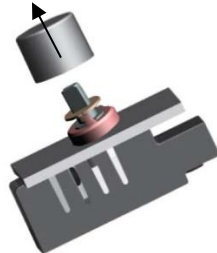


Figure 3

3. The metal ring on the spindle has a small protrusion and it works together with the clear plastic stopper to keep the spindle in a fixed position. The metal ring must remain on the spindle. Loosen the plastic stopper by gripping and lifting it with fingers (Figure 4). Alternatively, the stopper can be loosened by inserting a small flat tip screwdriver into the notch at its base.

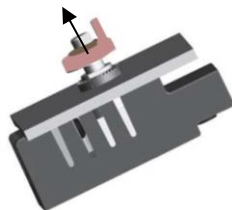


Figure 4

4. Turn the spindle in anticlockwise direction until the desired minimum brightness level is reached.
5. Position the plastic stopper such that its vertical wall is in contact with the protruded part of the metal ring (figure 5). Push the clear plastic stopper down to fix it in place.

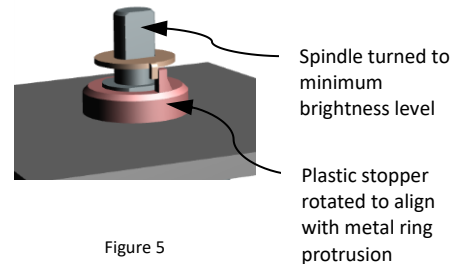


Figure 5

6. Replace the dimmer knob on the spindle (Figure 6).



Figure 6

## Dimmable LED Lamps

The recommended minimum load per gang is 5W. Always choose Trailing Edge LED lamps that are “dimmable” and for the best performance choose dimmable LEDs from established brands. We cannot guarantee that all LEDs labelled as “dimmable” can actually be dimmed satisfactorily.

Maximum and minimum loads, and the maximum number of lamps, will vary according to make and type of LED lamp.

## Compatibility and Loading Advice

Always use the same brand and wattage of LED lamp on each circuit.

### This Dimmer Switch is suitable for:

- Most Trailing Edge dimmable LEDs [see “*Dimmable LED Lamps*” box]
- Mains voltage incandescent, GLS or candle-shaped bulbs
- GU10 or similar good quality mains halogen bulbs
- Wire-wound or toroidal transformers

### This Dimmer Switch is not suitable for:

- Fluorescent bulbs and tubes
- Electric motors
- Non dimmable LEDs

## Specification

|                                |                          |                        |                                |
|--------------------------------|--------------------------|------------------------|--------------------------------|
| Load Type:                     | Power Rating per Module: | Voltage                | 220 – 240V ac 50Hz             |
| • LED                          | 5-100W (Trailing Edge)   | Compliance             | BS EN 60669-2-1                |
| • Mains Tungsten Halogen       | 10-250W                  | Back Box (recommended) | 25mm for 1g dimmers            |
| • Incandescent and ECO Halogen | 10-250W                  |                        | 35mm for 2g, 3g and 4g dimmers |
| • LV Transformers              | 10-250W                  |                        |                                |