

Team3Phase – Technical Sheet 1

Last Update: 10-02-2020

LED Dimming

1. Allow for inrush

An LED's inrush current is the initial surge of current that flows as a lamp "powers up" and can quadruple its labelled wattage, for example a 5W downlight reaching 20W. The inrush current varies and is dependant upon the quality of lamp being installed (cheaper models having a much higher inrush current).

2. Use a Zano Control (digital) LED dimmer

If you want to install a flicker-free and silent control, you need a Zano Control dimmer.

3. Calculate the load

(Quantity of LED lamps x wattage of LED lamp) x 1.8 (inrush factor) x 1.2

e.g. you would like to dim 10 x Goodwin 6.5W GU10 LED lamps with a single dimmer

$(10 \times 6.5) \times 1.8 \times 1.2 = 140.4W$

4. Select the correct Zano Control LED dimmer

Ensure calculated load is within load range of the Zano Control dimmer.

ZSP151 – Single LED dimmer curved white plastic 0-150W.

ZMO150 – Retrofit LED dimmer module 0-150W, when replacing an existing dimmer module on your dimmer plate.

ZGRIDLED150 – Grid mount LED dimmer module 0-150W, when using with a grid system or Euro face plate (includes adaptors for: BG, Crabtree, Deta, Hager, Hamilton Litestat, MK, Schneider & Wandsworth)