






TECHNICAL SPECIFICATIONS

~ 230VAC, 50Hz, IP20     

Electrical specifications

Normal Operating Voltage	190-253VAC, 50Hz ±5%
Minimum Operating Voltage	100VAC ⁽³⁾
Dimming Method	Leading or Trailing Edge
Max. Wire Resistance (optional bell-press control)	10kΩ
Minimum Load Power ⁽⁴⁾	
Resistive, LED and Electronic Transformer	2W ⁽¹⁾
Inductive	10W
Maximum Load Power	See table below
Retain Memory After Power Failure	Yes ⁽²⁾
Brown-Out Protection	Yes
High Frequency AC transient protection	Yes (in accordance with IEC61000)
Surge Protection	Yes (in accordance with IEC61000)

Load compatibility and maximum ratings

Load	Rating
Resistive, Inductive and Electronic transformer ⁽⁵⁾	225VA or 0.9A rms
LED	See Shuttle LED compatibility chart for maximum ratings www.shuttlelighting.com

Environmental

Operating Temperature	-5 – +40°C
Storage Temperature	-30 – +80°C
Maximum Housing Temperature	85°C
Relative Humidity	90% (non condensing)
Enclosure	36 x 22 x 22mm Plastic

TECHNICAL SPECIFICATIONS continued

Software features

Microprocessor Control	Yes
Soft Start and Soft Off	Yes
Bell-press Control	Continuous cycling
Minimum Intensity Control	Yes
Memory	Yes, returns to previous dimming level when turned on, except after a power failure ⁽²⁾

Conformity

EMC and Immunity	CISPR 15 (2018-05 ED.9.00), IEC 61547 (2009) IEC 60669-1:2017, SANS 60669-1: 2017
Safety	IEC 60669-2-1:2015, SANS 60669-2-1:2015
Quality Management	ISO 9001:2015

- (1) Most electronic transformers require a minimum load of at least 20W, but it could be higher depending on manufacturer
- (2) If the dimmer was on during a power failure, it will turn on at 50% intensity when power is restored, irrespective of dimming level before the power failure. If the dimmer was off during a power failure, it will remain off when power is restored
- (3) Incandescent load. Minimum operating voltage with electronic transformer is dependant on the specific transformer's specifications. Continuous operation at supply voltages below the normal operating voltage is not recommended
- (4) Minimum load depends on type of load
- (5) Only compatible with low voltage dimmable LED lamps with manufacturer approved electronic transformers



INSTALLATION INSTRUCTIONS

- Installation must be carried out by a qualified and registered electrician
- Installation must be carried out in accordance with the local code of practice
- Wire the mains connections according to the relevant wiring diagram
- Tighten nut by hand only
- Optionally connect a mains rated normally open (N.O.) bell-press switch to the white wire and live for 2-way switching
- Do not connect the white control wire to neutral or earth. If not used for two way switching, isolate the white wire
- Install only one dimmer per wall box
- Internal use only
- Do not install or operate close to flammable materials
- NO mains neutral or earth should be connected to any wires of the dimmer

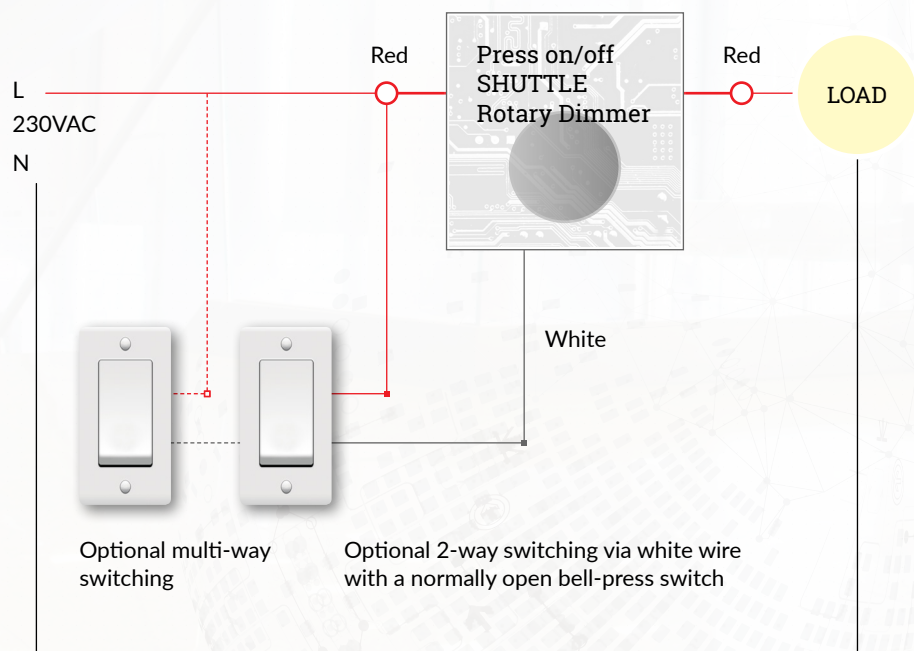
More than one dimmer per wall box

There is no allowance in the IEC specifications for dimmers to be tested or qualified for more than one dimmer per wall box. It is however often desired to install more than one dimmer per switch box. In these cases it must be kept in mind that a dimmer does heat up the air inside a closed space and two or more dimmers in the same closed space will hence influence each other's maximum load and temperature ratings. The dimmers should thus be de-rated.

Shuttle recommends that the maximum dimmer VA rating (or maximum load per dimmer) be derated by 1.25 times the number of dimmers inside the same enclosure, as follows:

$$\text{Dimmer reduced VA (max load) rating} = \frac{\text{Dimmer VA rating (calculated max load)}}{1.25 \times (\text{Number of dimmers})}$$

WIRING DIAGRAM



OPERATING INSTRUCTIONS

Classic Rotary operation

TURNING THE LIGHT ON OR OFF

Press and release the rotary knob once to turn the dimmer (light) on or off. The dimmer will remember the last dim level (light intensity) where it was turned off and return to the same light level when turning on again.

DIMMING UP OR DOWN

When the light is on, turn the rotary knob clockwise to increase the lamp intensity and counter clockwise to decrease the intensity.

Alternative Rotary operation

DIMMING UP OR DOWN

When the lamp is on, press and hold the rotary knob. The light will dim either up or down and release the rotary knob at the desired light level. Should the dimming direction be incorrect, release the rotary knob momentarily and press and hold again, the dim direction will be reversed. This process can be repeated continuously should a very specific light level be desired.

If the rotary knob is continuously pressed while the light is on, the light intensity will continuously cycle between minimum and maximum with a slight delay when maximum or minimum light intensity is reached. When the rotary knob is released, the light level will remain at the intensity at the instance when the rotary knob was released.

Optional 2- or multi way switching via an external bell-press switch

TURNING THE LIGHT ON OR OFF

Press and release the bell-press switch once to turn the dimmer (light) on or off. The dimmer will remember the last dim level (light intensity) where it was turned off and return to the same light level when turning on again.

DIMMING UP OR DOWN

When the lamp is on, press and hold the bell-press switch. The light will dim either up or down and release the bell-press switch at the desired light level. Should the dimming direction be incorrect, release the bell-press switch momentarily and press and hold again, the dim direction will be reversed. This process can be repeated continuously should a very specific light level be desired.

If the bell-press switch is continuously pressed while the light is on, the light intensity will continuously cycle between minimum and maximum with a slight delay when maximum or minimum light intensity is reached. When the bell-press switch is released, the light level will remain at the intensity at the instance when the bell-press switch was released.

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