

ROTARY MODELS:    ■ 500W    ■ 800W

### TECHNICAL SPECIFICATIONS

~ 230VAC, 50Hz, IP20    

#### Electrical specifications

Normal Operating Voltage	190-253VAC, 50Hz ±5%	
Minimum Operating Voltage	100VAC <sup>(3)</sup>	
Dimming Method	Leading or Trailing Edge	
Minimum Load Power <sup>(4)</sup>	<b>500W</b>	<b>800W</b>
Resistive	2W	2W
Inductive	Not Compatible	Not Compatible
Electronic Transformer	2W <sup>(1)</sup>	2W <sup>(1)</sup>
Maximum Load Power	See table below	
Retain Memory After Power Failure	Yes <sup>(2)</sup>	
Brown-Out Protection	Yes	
High Frequency AC transient protection	Yes	
Surge Protection	Yes (in accordance with IEC61000)	

#### Load compatibility and maximum ratings

Load	500W	800W
Resistive, Inductive and Electronic transformer <sup>(5)</sup>	500VA or 2.1A rms	800VA or 3.3A rms
LED	See Shuttle LED compatibility chart for maximum ratings <a href="http://www.shuttlelighting.cm">www.shuttlelighting.cm</a>	

#### Software features

Microprocessor Control	Yes
Soft start and Soft Off	Yes
Rotary Control	Yes single turn with switch on/off
Minimum Intensity Control	Yes

### TECHNICAL SPECIFICATIONS continued

#### Environmental

Operating Temperature	-5 – +45°C
Storage Temperature	-30 – +80°C
Maximum Housing Temperature	85°C
Relative Humidity	90% (non condensing)
Enclosure	44 x 29 x 20mm Black Aluminium

#### Conformity

EMC and Immunity	CISPR 15 (2018-05 ED.9.00), IEC 61547 (2009)
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) After a power failure the lamp intensity is restored to the rotary knob position
- (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





### DIMMER MAXIMUM LOAD RATING

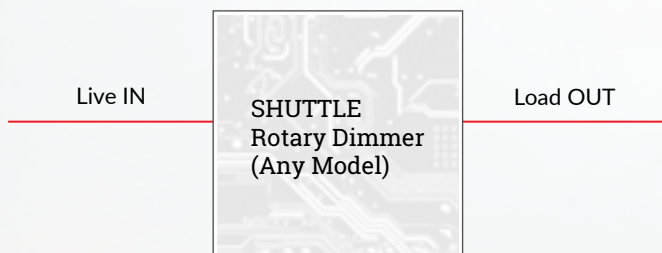
#### More than one dimmer per wall box

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. Ideally the additional dimmers should be installed remotely (in the ceiling or roof), or the dimmers should be de-rated.

Shuttle recommends that the maximum dimmer VA rating (or maximum load per dimmer) be derated by 1.2 times the number of dimmers inside the same enclosure, as follows:

$$\text{Dimmer reduced VA (max load) rating} = \frac{\text{Dimmer VA rating (calculated max load)}}{1.2 \times (\text{Number of dimmers})}$$

### WIRING DIAGRAM



### 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 wiring diagram
- Install only one dimmer per wall box
- Internal use only
- Do not install or operate close to flammable materials

### OPERATING INSTRUCTIONS

#### Turning the light on or off and dimming up or down

The rotary knob is equipped with a built in on/off switch which is engaged when the knob is turned anticlockwise to it's locking position. In this position the lamp will be off. Turning the knob clockwise will turn the lamp on and lamp intensity will increase as the knob is further rotated clockwise to it's maximum position.

If the rotary knob is in it's on position and there is a power failure, the lamp will return to the same intensity when power is restored.

### CONTACT

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