

# High Power 500W LED Trailing Edge Dimmer Push ON/OFF Multi-way Switch



## ATE-HVR500EU INSTALLATION INSTRUCTION

### IMPORTANT !





It is illegal for persons other than an appropriately licensed electrical contractors or other persons authorised by legislation to work on the fixed wiring of any electrical installation.

“This dimmer shall be protected by a 6A or up to a 16A maximum miniature circuit breaker, which is special use with this dimmer.”

### WARNING : ELECTRIC SHOCK HAZARD

Hazardous voltage maybe present at the output of the dimmer despite setting the dimmer to zero brightness level. Look out and tag the input circuit before accessing the wiring connections. Failure to follow this warning can result in death or serious injury.

### ELECTRICAL SPECIFICATIONS

Parameter	Value
Supply voltage & Frequency	220-240V ~ 50Hz
Rating	10-500W: incandescent lamps, high voltage halogen lamps and electronic step-down converter for extra low-voltage incandescent lamps. 2-500W: dimmable LED lamps. <b>Total connected lamps must be less than 25pcs</b>
Compatible loads	 LED Dimmable  Dimmable LED lighting with compatible Electronic Transformers
	 Incandescent lighting, MV Halogen lamps
	 LV Halogen Lighting with electronic transformers
Operating Temperature	0° - 45°C
Operating Humidity	10 - 90% R.H.
Mounting Centres	82mm EU Pattern Plate

NOTE :  
Operation at elevated temperatures or voltages may cause the thermal protection circuit to operate. If this happen, decrease the connected load to prevent re-occurrence.

### MIN. / MAX. BRIGHT LEVEL SETTING

How to set the Min. / Max. bright level :



Max. Bright Set Sw2

Min. Bright Set Sw1

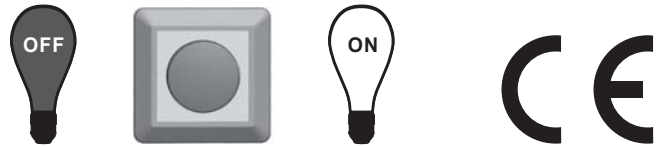
Min. / Max. bright level set :  
Remove front plate cover.  
Push ON the lamp, turn Sw1 to set desire min brightness level;  
turn Sw2 to set desire max. brightness level.

### FEATURES :

- Suitable for 1-way or Multi-way ON/OFF switching.
- Minimum load down to 2W of capacitive or resistive load, such as Dimmable LED Lighting, Incandescent Lighting, MV Halogen / LV Halogen Lighting with electronic transformers.
- Lamps soft-start operation, to extend longer lifetime for the lamp.
- User setting for the minimum / maximum bright Level.
- Build-in overload circuit protect, designed to ensure the dimmer can survive in case of wiring fault or catastrophic failure of the load.
- Build-in re-settable thermal cut-off to protect the dimmer over normal operation temperature caused by overloads.
- Complies with IEC EN60669 and International safety standards.

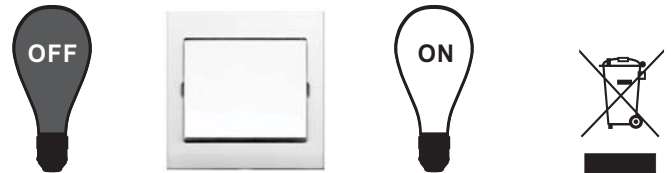
### NORMAL OPERATION

Operation of Dimmer Knob and Switch :



Push knob **ON** or **OFF** the lamp.  
Turn knob right to increase brightness to maximum level.  
Turn knob left to decrease brightness to minimum level.

### Operation of Multi-way Retractive Switch :



Short press button to **ON** or **OFF** the lamp.

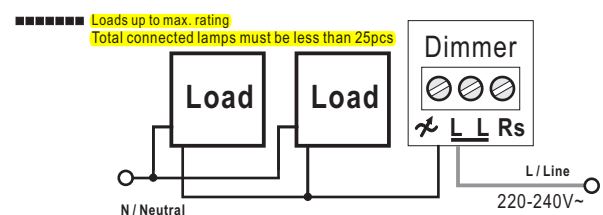
### INSTALLATION

Wiring Details :

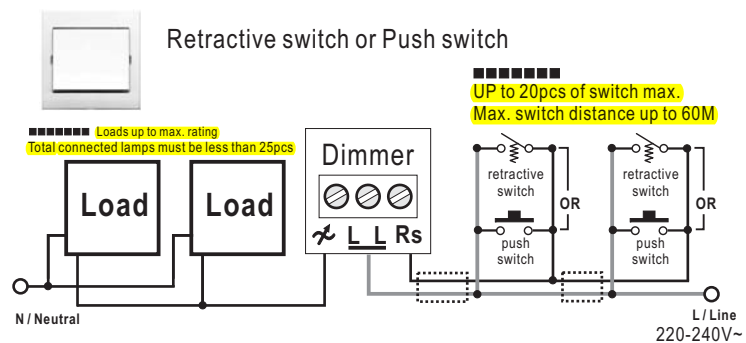
1. Disconnect power. Lock out and tag the relevant circuit at the mains switchboard.
2. Remove existing switch from wall.
3. Connect the dimmer in accordance with the wiring diagrams.  
\*The copper conductors for the terminals is 1,0 to 1,5mm rigid wire.
4. Refit switch plate to wall and fit the dimmer knob to the shaft.
5. Reconnect power. Push ON and dim with turning knob.

### WIRING DIAGRAMS

#### One Way Operation



#### Multi-way ON/OFF switching operation



### NOTE:

The Dimmer must always be connected to the LINE side of the load.  
Multi-way retractive switch or push switch can be control up to 20 units for ON/OFF switching function.  
Two or more dimmers **MUST NOT** be connected in parallel or series to control the same load from two different locations.