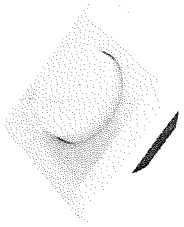
Comfort dim

El- nummer:1400107

Auto Detect Intelligent Universal dimmer



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.

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	230-240V ~ 50Hz
Maximum Load	400W @ 240V~
Dimming Technology R.C.L	Auto Detect Trailing / Leading edge driven control Also, Leading edge dimming mode can be set by user manually.
Compatible loads for**TEauto mode**	LED Dimmable — Dimmable LED lighting with compatible Electronic Transformers
	Incandescent lighting, MV Halogen lamps
	LV Halogen Lighting with electronic transformers
Compatible loads for**LE mode** Must be manual change to LE mode	LV Halogen Lighting with Iron-core transformers
	Small motor loads, ceiling sweep fans
Operating Temperature	0? 45?C
Operating Humidity	10 - 90% R.H.
Mounting Centres	82mm EU Pattern Plate
Safety Compliance	IEC EN 60669-2-1 : 2013
EMC Compliance	IEC EN 60669-2-1 : 2002+A1:2008+A2:2015 Excepting when used in conjunction with electronic load

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-occurance.

THERMAL OVERLOAD PROTECTION

Build-in thermal protect circuit. Apply a re-settable thermostat component, when module temperature raise achieve 110□ will activate the protection, while temperature cool down approx. 75□ it will become normal operation. If occur frequently, please reduce loading.

SHORT CIRCUIT PROTECTION

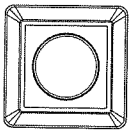
Build-in short circuit protect, once activate, the dimmer will suspend operation around 5 second after that, it will auto-ON again. If detect remain short circuit or over current, the module will suspend operation until disconnect dimmer power and Push ON dimmer again reset to normal operation. In this case, please check the circuit with electrical technician.

FEATURES :

- Suitable for 1-way or 2-way switching.
- Minimum load down to 5W 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 dim Level.
- Build-in short 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 CE 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.

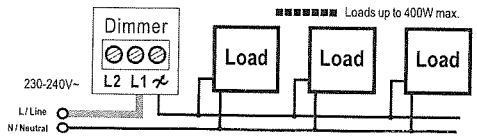
INSTALLATION

Wiring Details :

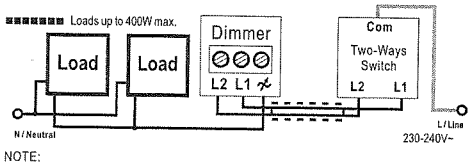
1. Disconnect power. Lock out and tag the relevant circuit at the mains switchboard.
2. Remove existing switch from wall.
3. Connect the dimmer in accordance with the wiring diagrams.
4. Refit switch plate to wall and fit the dimmer knob to the shaft.
5. Reconnect power. Push ON and dim with turning knob.

WIRING DIAGRAMS

One Way Operation



Two Way Operation

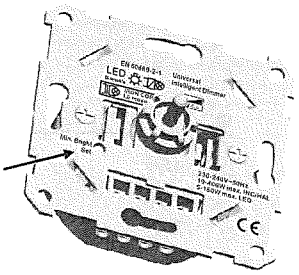


NOTE:
The Dimmer must always be connected to the LINE side of the load.
Two or more dimmers MUST NOT be connected in parallel or series to control the same load from two different locations.

MINIMUM BRIGHT LEVEL SETTING

How to set the Minimum bright level :

Min. Bright Set Sw



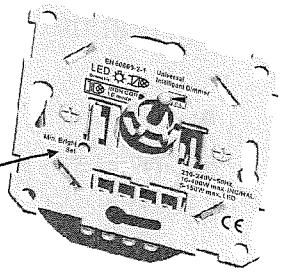
Minimum bright level set :
Remove front plate cover, push ON the lamp, then push Sw once. lamp will appear half-bright level, now is entry minimum Brightness setting.
Turn central knob to set desire min brightness level, then push Sw for once. lamp will appear at min brightness level then return to normal bright level it's confirmed and save setting.

Note :
Setting must be performed within 10 seconds, if no, it will time out and auto exit program without save

MODE SELECT OPERATION

This dimmer built-in 2 Mode for user select.
* TEauto Mode (Factory default) , suitable for most LED lamps. (SEE COMPATIBLE LOADS)
* Leading Edge Mode (LE), for special required for LE lamp only, (SEE COMPATIBLE LOADS)

Mode set Sw



For select TEauto mode (Factory default)
***SEE COMPATIBLE LOADS**

Remove front plate cover, Push ON the lamp at min. bright level, then push and hold Sw for 5 second until lamp will appear haft-brightness level and release the Sw, lamp will flash 1 time to confirm and save setting.

For select LE mode (for special required*)
***SEE COMPATIBLE LOADS**

Remove front plate cover, Push ON the lamp at max. bright level, then push and hold Sw for 5 second until lamp will appear min-brightness level and release the Sw, lamp will flash 3 times to confirm and save setting.

COMPATIBLE LOADS

Compatible loads for **TEauto mode**	
LED Dimmable	Integral Dimmable LED lamps
	Dimmable LED lighting with compatible Electronic Transformers
	Incandescent lighting, MV Halogen lamps
	LV Halogen Lighting with Electronic Transformers
Compatible loads for LE mode *Must be manual change to LE mode	
	LV Halogen Lighting with Iron-core Transformers
M	Small motor loads, ceiling sweep fans

NOTE :
When connect with IRON-CORE transformers or MOTOR-LOADS, Only Leading Edge mode (LE) could be applied, the TEauto mode can not be used in this case.

Multiple compatible loads can be used as the total lamp wattage does not exceed the maximum load rating of the dimmer.

Some lamps may exhibit unexpected performance characteristics when cold. Dimming performance should improve after the lamp warms up. Or in case off amp appears unstable status, it could be changed to LE mode.

NOTE :

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