

European in-line dimmer

INSTRUCTIONS

The Corston in-line dimmer module uses electronics to control the dimming of LEDs and incandescent bulbs. It allows toggles to dim lights, keeping the style consistent throughout the property.

The dimmer has a memory function so the lights turn on at the same brightness as they were last used. The dimmer has trailing edge and leading edge modes which maximises the bulb's life. The module can be used with our retractive or centre-retractive switches. To change the settings of the dimmer the DIP switches must be correctly set prior to installation.

FEATURES

- Suitable for one-way or multi-way full digital dimming and switching.
- Minimum circuit load down to 2W, including dimmable LED and incandescent lighting.
- Trailing edge (TE) and leading edge (LE) operation.
- Soft-start operation to extend bulb life.
- Programmable minimum brightness.
- Built-in thermal cut-off and short circuit protection.
- Complies with IEC EN60669.
- Can be used with centre-retractive as well as retractive switches.
- Multiple modules can combine to increase total load per circuit for higher wattage circuits.





SETTING THE MINIMUM BRIGHTNESS

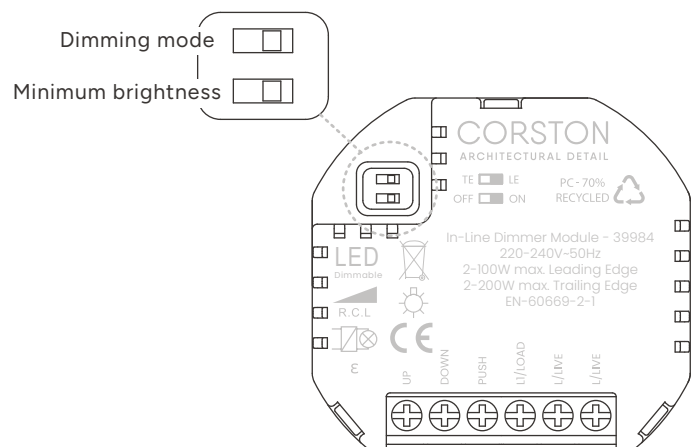
With the lamp OFF, change the minimum brightness DIP switch to ON. The lamp will appear at half brightness in three to five seconds. Adjust the brightness to set the desired minimum level. Switch the DIP switch to OFF to save the setting.

MODE SETTING

There are two DIP switches on the module which control the type of toggle used and the dimming mode of the module. These should be set prior to installation.

- TE MODE = trailing edge mode
- LE MODE = leading edge mode
- OFF = minimum brightness setting not active
- ON = minimum brightness setting active

Parameter	Value
Supply voltage & frequency	220-240V ~ 50Hz
Rating	10-200W: incandescent lamps, high-voltage halogen lamps and electronic step-down converter for extra low-voltage incandescent lamps 2-100W: dimmable LED lamps
Compatible loads for TE mode	 Dimmable LED lighting with compatible electronic transformers
	 Incandescent lighting, MV halogen lamps
	 LV halogen lighting with electronic transformers
	 LV halogen lighting with iron-core transformers
Operating temperature	0-35°C
Operating humidity	10-90% R.H.



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WARNING & INSTALLATION INFORMATION

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.

The dimmer should be protected by a 6A or up to 16A maximum circuit breaker.

The dimmer must always be connected to the live side of the load.

The in-line dimmer module can be connected to up to a maximum of 20 retractive or centre-retractive toggles. Modules can be wired to increase maximum circuit output. Each module has a max. output of 200W.

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

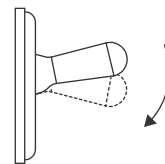
When connected with steel-core transformers, Only leading edge mode (LE) should be used. Trailing edge (TE) mode cannot be used in this case

Some lamps may exhibit unexpected performance characteristics when cold. Dimming performance should improve after the lamp warms up. If the lamp begins to flicker or there are dimming issues, the dimmer may need to be changed from TE to LE mode or vice versa.

WIRING DIAGRAMS

These wiring diagrams are examples of common installations. Consult an electrician if in any doubt. Multiple retractive switches can be used with a Corston in-line dimmer module on the same circuit. Two-way and intermediate switches cannot be used.

When finished there should be no exposed wire. The connections should be secure and tight. Earth sheathing should be used on any exposed earth wire. The switch assembly should push back into the mounting box without forcing or trapping any wires.

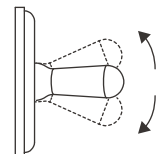


RETRACTIVE SWITCH

Short press down: on/off

Long press down: brighter/dimmer

Twin and earth cables between switches



CENTRE RETRACTIVE SWITCH

Short press up: on/off

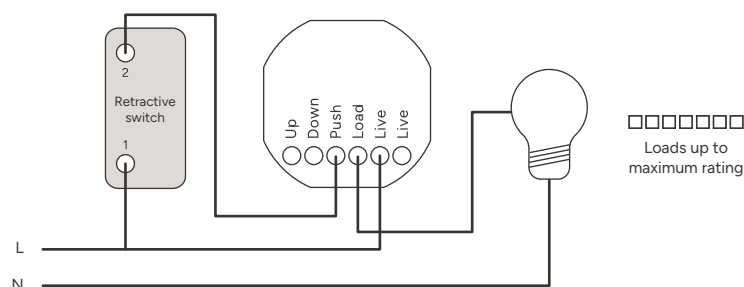
Long press up: brighter

Short press down: on/off

Long press down: dimmer

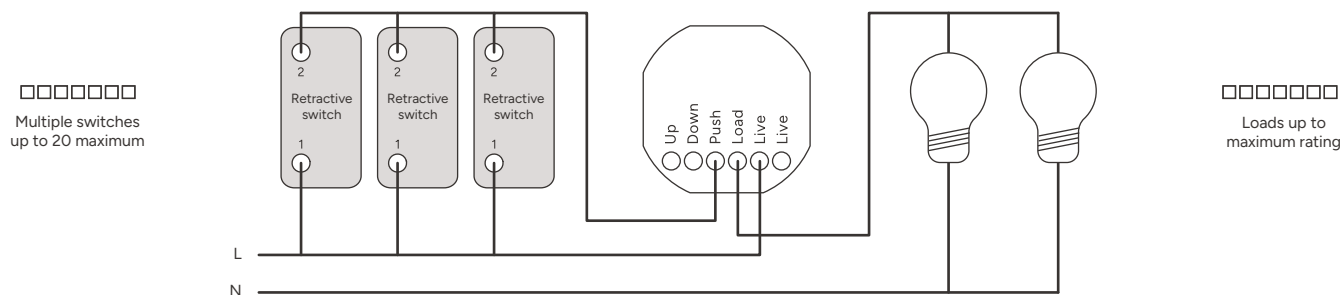
Four-core cable between switches

WIRING DIAGRAM: ONE-WAY RETRACTIVE SWITCH

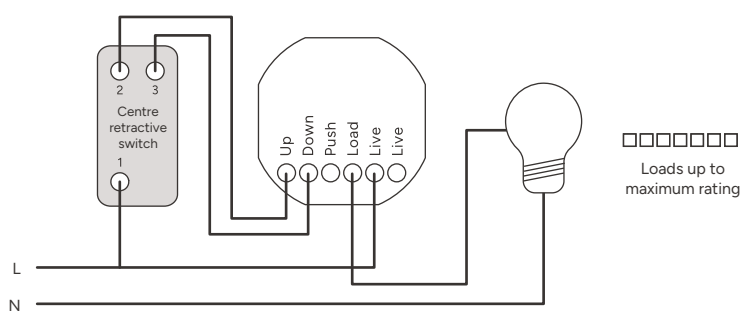


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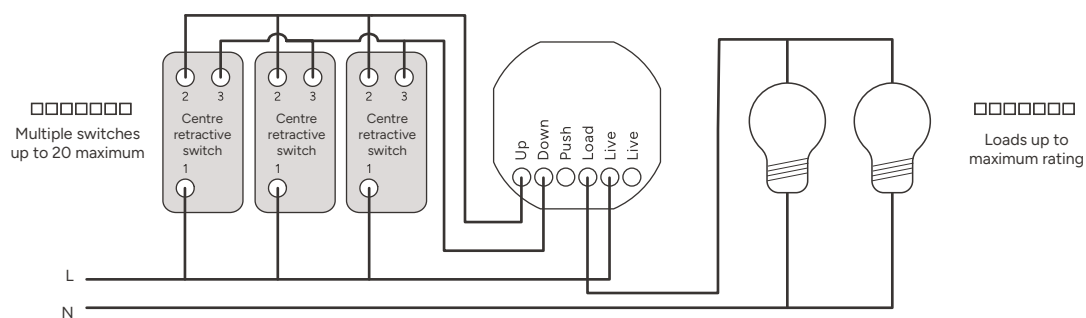
WIRING DIAGRAM: MULTI-WAY RETRACTIVE SWITCH



WIRING DIAGRAM: ONE-WAY CENTRE RETRACTIVE SWITCH



WIRING DIAGRAM: MULTI-WAY CENTRE RETRACTIVE SWITCH



TROUBLESHOOTING

The dimmer must always be connected to the Live side of the load. One circuit can have up to 20 units for UP/DOWN dim and ON/OFF function.