

DIMMABLE & SWITCH DIMMABLE CFLs

VARILIGHT®

Revolutionary Technology

VARILIGHT® dimmable compact fluorescent lamps (CFLs) feature our innovative patented FlexDigit® technology enabling smooth dimming from 2%-100% brightness and having many advantages over competing analogue attempts at dimming (see Features & Benefits). They are available in two versions:

DIMMABLE CFL – dimmable (2% - 100%) with any standard dimmer

SWITCH DIMMABLE CFL - dimmable (2% - 100%) using an ordinary switch

Fluorescent lamps are undoubtedly the most energy-saving and efficient light sources. The efficiency of compact fluorescent lamps (CFLs), measured by light stream intensity obtained from 1W of energy, is 60 lm/W (compared with only 12 lm/W for a conventional GLS lamp). The environmental benefits of CFLs are considerable due to a resulting 5-fold decrease in energy consumption, and therefore greenhouse gas emissions, compared with conventional GLS lamps. Remarkably, the lifetime of an CFL is 8 to 12 times longer than that of most GLS lamps. Additionally, the possibility of brightness control not only improves comfort but leads, on average, to a further 40% decrease in energy consumption.



Features and Benefits

Disadvantages of analogue dimming	Advantages of FlexDigit® technology
Dimming range: 20% - 100%	Dimming range: 2% - 100%
Full dimming range only available at a stable voltage of 230V	Full dimming range irrespective of voltage fluctuations (195-254V)
Fluctuations of +/-5% in the mains can translate into +/-50% brightness fluctuations	Constant brightness level regardless of voltage fluctuations (195-254V)
Dimmable only with a few types of dimmer	Dimmable with any dimmer (Dimmable CFL) or with any switch (Switch Dimmable CFL)
Problems with ignition at low brightness settings	Guaranteed ignition at any brightness level even at lowest 2% brightness setting
Flickering at ignition	Preheated and flicker-free ignition
Low Power Correction Factor <0.6	High Power Correction Factor >0.95 (Dimmable CFL)

Economy:

- Significant decrease in energy consumption
- Long lamp life: up to 15,000 hrs
- Lamp life unaffected by frequency of switching

Safety:

- Smooth brightness regulation
- No stroboscopic effect
- Constant and flicker-free brightness level, irrespective of voltage fluctuations in the range of 195-254V

Convenience:

- Broad dimming range: 2% - 100%
- Dimmable with any dimmer (Dimmable version)
- Dimmable with an ordinary switch (Switch Dimmable version)
- Guaranteed flicker-free ignition at any brightness level even at lowest 2% brightness setting
- Can be used as a direct replacement for traditional incandescent bulbs

Not yet available:

DIMMABLE CFL – dimmable (2% - 100%) with any standard dimmer