

KEYLIGHTING
LIGHTING TECHNOLOGY

pirtech



Of all the electricity generated 20% is used for lighting. Efficiency of luminaires, lamps and control gear has improved enormously over the last 20 years and will continue to do so. However future gains will be progressive rather than revolutionary and no massive increases in lumen efficiency can be expected in the near future.



Energy saving will become more difficult and the best strategy will be to dim or turn off any non-required lights.

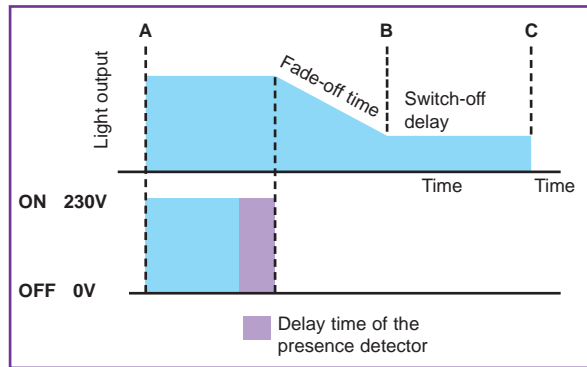
The market offers a wide variety of simple and complicated dimming and automatic switching options. Many of these require significant investment in wiring, software and controls; these leave the end user with lengthy payback periods and significant additional capital outlay. Retro fitting of these systems into existing buildings is difficult due to the additional wiring required when replacing existing luminaires.

Keylighting have developed a simple flexible in-luminaire based system that offers the significant energy saving for the user utilising both presence detection and daylight monitoring of illumination.

The controls can be installed at the time of manufacture into a wide variety of popular energy efficient luminaires. The controls are very simple and offer a variety of options for the end user. All the ballasts we use are premium branded warm start dimmable units connected directly to an adjustable sensor which monitors ambient light levels and presence.



The luminaire turns on at 100% of its light output when activated and then remains on for a period of between 5 and 30 minutes (decided by end-user) after it is last activated. After this time over a period of 2 minutes the luminaire will dim to 10%. The luminaire can either remain at the 10% level until re-activated or be turned off completely after a further 2-minute period of non-activation.



Fittings will also dim to the 10% level or switch off completely if the ambient light level exceeds the chosen lux level the sensor is set to. Fittings will then only return to 100% light output if the ambient level within the area is lower than the programmed level. If the luminaire is re-activated by presence and the ambient light level is above the programmed level the luminaire will either remain at 10% or off.

Luminaires can be connected together for group switching; where any sensor is activated all luminaires in that group will be activated. One sensor can be used to activate several luminaires; remote sensors can be added at doorways or around corners if required. The system allows for the incorporation of door switches for automatic activation on entry.

The savings achieved with the PIRTECH system vary depending on the type of installation and the activation levels. You could expect a saving of between 40 and 80%. This is a significant saving and will drastically reduce the electricity cost of any organisation.

The installation cost of these luminaires is exactly the same as with a standard luminaire, and fittings can be replaced on a one-for-one basis.



There are health and safety benefits as managers can guarantee all essential corridors and store areas are immediately illuminated on entry eliminating risks of trips and falls. Operation without switches removes one potential path for the transmission of dirt and disease.

Keylighting manufacture a wide range of luminaires incorporating the PIRTECH controls. These cover our most popular and energy efficient luminaires with the latest lamp technologies. All luminaires will meet the new L2 building regulations and the Governments Enhanced Capital Allowance Scheme run by the Energy Saving Trust. A selection of the fittings also meets the new LG7 lighting guide for office interiors.



PRODUCTS AVAILABLE WITH INTEGRAL PIRTECH SENSOR



Non Corrosive



Profile



T5 Batten



Gemini



Downlighter



Versillus II



Gul



Orizon Flux Master



Versillus I

- **Between 40 and 80% Energy Consumption Reduction**
- **L2 Building Regulation Compliant**
- **Meets Requirements of Enhanced Capital Allowance Scheme**
- **Same Installation Costs as Standard Fittings**
- **Health & Safety Benefits**
- **Other fittings may be available with Pirtech sensor on request**

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