

Electronics in lighting

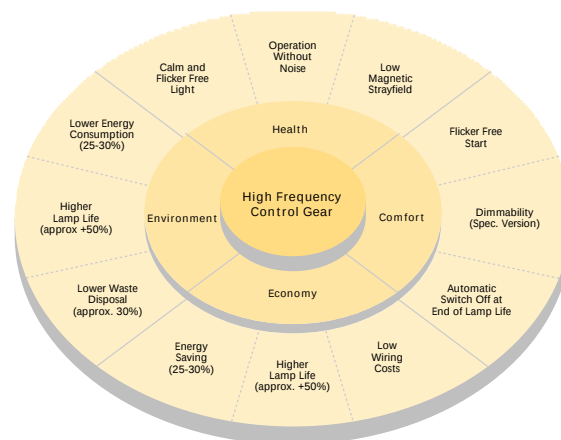
The use of high frequency and other electronic control gear within fluorescent luminaires has become widespread. Fluorescent lighting controlled in such a way is flicker-free and considerably more efficient than ordinary types, in respect of the quality and output of light, and in terms of energy efficiency. Indeed, Section L of the Building Regulations requires an energy efficient lighting design in all non-domestic buildings.

Furthermore, fluorescent lighting controlled in this way may be dimmed to avoid excess task illumination for times of low activity, or increased to provide maximum illuminance as required.

When coupled with a suitable control system, high frequency fluorescent lighting can provide flexibility of use to allow the precise provision of lighting to suit various tasks within an environment. In a typical office environment, secretaries may be alternating between paperwork and word-processors, whilst in another section of the office, draughtsmen may work between detailed drawings and CAD stations.

Research has shown the importance to individuals of control over their personal environment, to be a major factor in human motivation and productivity.

High frequency and electronic control for luminaires is therefore a most important consideration when planning office lighting schemes.



The benefits of high frequency control gear



Section L
Building
Regulations



HF dimming



Command 3
intelligence
see p127



Central lighting
control systems
see p120-125



Javelin Feature Recessed, Virgin Atlantic, Crawley