

horsellelectrics

70 years of innovation in lighting

Lighting Solutions for Facility Management Companies

Drallim Industries Ltd Trading as Horsell Electrics



Horsell Electrics supporting the Facility Management Industry

About Us

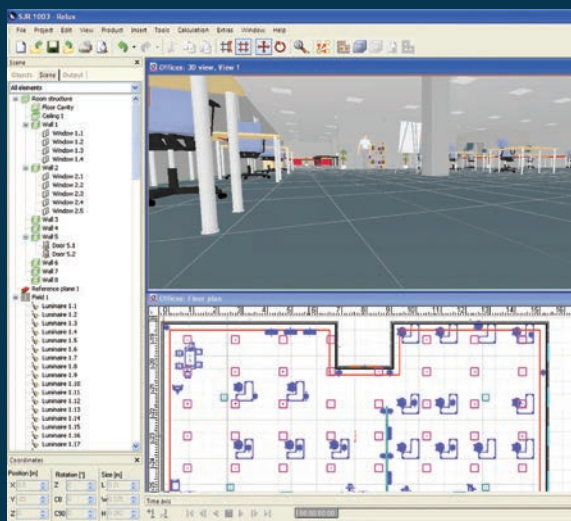
Horsell Electrics have been designing and manufacturing industrial and commercial lighting from our Sussex factory for over 70 years. In 2010, Horsell Electrics was reborn with a new and revitalised image after its acquisition by the Drallim Group.



The Drallim Group, an innovative technology driven British engineering company, have been providing engineering skills, manufactured equipment & custom-built systems for the Aerospace, Industrial and Utility markets for more than 50 years.

Building on both companies strong heritage Horsell Electrics has been rebuilt in every aspect of the business, striving to reach World Class standards in design and production. Our highly motivated team is always ready to meet your needs.

*Bespoke Fittings
Lighting Design
OEM Services
Downlighters, Signs & Compact Lighting
Commercial Buildings & Offices
Clean Area Lighting
Sports, Colleges, Schools & Universities
External IP Rated & Vandal Resistant
Energy Saving & Control
Replacement Diffusers & Louvres
Replacement Gear Trays
LED Tubes
LED Panels
Energy Saving*



What can Horsell Electrics offer you?

High Quality

Horsell Electrics aim has always been to offer high quality lighting products with a service to match. The current range of luminaires and associated lighting accessories cover a vast range of different applications, but because we understand that customers' requirements are varied we also offer the production of bespoke products even in small quantities. With an in-house lighting design team plus extensive on-site manufacturing plant, we work with clients throughout the United Kingdom to design and then produce lighting solutions that meet their exact requirements.

Energy & CO² Saving Calculations

Calculating electricity bill savings comes from some very basic industry formulas. For example, lighting components use consistently measurable amounts of electricity, and are the basis of many of the initial calculations. Essentially, the decrease in demand for electricity is predictable and substantial savings made with energy efficient technology. The net result is a cleaner looking, brighter, and more comfortable work environment that uses less electricity. It is not just a comparison of lamp wattage; there are considerable hidden losses in control gear; the older the type of gear the bigger the loss!



Lighting Schemes

Horsell Electrics offer a Lighting Scheme service for new build and re-fit projects, using the latest lighting planning software.

BREEAM

BREEAM gives up to 15 energy credits if the whole building CO² emissions are lower than the Building Regs target. Energy efficient lighting, including lamps, luminaires and lighting controls, can help achieve these credits.

BREEAM also gives credit for separate sub-metering of energy uses including lighting; and for energy efficient external lighting (minimum lamp lumens/circuit Watt, daylight sensing).



Energy Saving Lighting Solutions & Control Protocols



Horsell Electrics have a large range of energy efficient luminaires that can significantly reduce energy consumption. From efficient T5 fluorescent fittings to the latest in LED technology where energy and carbon savings of up to 70% can be achieved. Microwave and PIR sensors can also be fitted to offer daylight control and corridor functions.

Analogue 1-10v

This is one of the earliest and simplest electronic lighting control signalling systems. Dimming fluorescent ballasts and LED drivers often use 0-10v control signals to control dimming functions. In many cases, the dimming range of the power supply or ballast is limited.

Switch Dim

Switch Dim applications use the mains voltage as the control signal for the digital dimmable ballasts. This is the simplest form of lighting management, which makes Switch Dim uncomplicated, cost-effective and extremely user-friendly. Only simple conventional mains voltage switches are therefore needed to dim and switch the lighting system from several locations.

Digital Addressable Lighting Interface (DALI)

DALI enables up to 64 digital dimmable ballasts to be individually addressed on a single line, 16 groups to be assigned and 16 lighting scenes to be programmed. Regrouping is possible at any time without the need for costly rewiring, for example after renovation or a change of function for a room.

With individual addressability and status feedback, the DALI-based lighting control systems not only offer top-quality monitoring functions but also open up new opportunities for developing high-quality lighting solutions because the various parameters can be easily programmed.

Digital Signal Interface DSI

To optimise the energy consumption of extensive groups of luminaires, for example in sports stadiums or factories, there are solutions based on the modular system and the DSI digital interface. The attractive functions of a DSI lighting management system include simple programming of scenes and the option of common routing of the control line and mains power supply cabling in one duct. Digital transmission means no problems of interference and an identical dimming value for all the luminaires

Corridor Function

In presence-controlled lighting systems the Corridor Function integrated in dimmable ballasts provides a new level of energy efficiency, safety and comfort. Instead of being switched-off abruptly if no movement is detected in stairwells, corridors, underground car parks or entrance halls, the lighting is dimmed to a low level and then switched-off after a delay of one minute. As soon as someone enters the room the light is switched back up to its full level.





Daylight Linking

Simple, cost-effective and energy-efficient constant lighting systems can be produced on the basis of digital dimmable ballasts. Sensors, which are connected to the ballasts via an interface, register the available ambient light or the presence of a person in the room. The level of light can be regulated to a user-defined constant light value or the luminaire can be switched-off if there is no-one in the room.

Occupancy Sensors for Lighting Control

Motion sensors are often used in indoor spaces to control electric lighting. If no motion is detected, it is assumed that the space is empty, and thus does not need to be lit. Turning off the lights in such circumstances can save substantial amounts of energy. In lighting practice occupancy sensors are sometimes also called “presence sensors” or “vacancy sensors”. Occupancy sensors for lighting control typically use infrared (PIR) and microwave sensors. The field of view of the sensor must be carefully selected/adjusted so that it responds only to motion in the space served by the controlled lighting. For example, an occupancy sensor controlling lights in an office should not detect motion in the corridor outside the office.

Lighting Management Systems

A lighting control system is an intelligent network based lighting control solution that incorporates communication between various system inputs and outputs related to lighting control with the use of one or more central computing devices. Lighting control systems are widely used on both indoor and outdoor lighting of commercial, industrial, and residential spaces. Lighting control systems serve to provide the right amount of light where and when it is needed.

Lighting control systems are employed to maximize the energy savings from the lighting system, satisfy building codes of practice, or comply with green building and energy conservation programs. Lighting control systems are often referred to under the term Smart Lighting.

A major advantage of a lighting control system over stand-alone lighting controls or conventional manual switching is the ability to control any light, group of lights, or all lights in a building from a single user interface device. Any light or device can be controlled from any location. This ability to control multiple light sources from a user device allows complex lighting scenes to be created. A room may have multiple scenes pre-set, each one created for different activities in the room. A major benefit of a lighting control system is reduced energy consumption; longer lamp life is also gained when dimming and switching off lights when not in use. Newer, wireless lighting control systems provide additional benefits including reduced installation costs and increased flexibility of where switches and sensors may be placed.

KNX

KNX can provide integrated control of lighting, heating, security, and smart metering monitoring. Interoperability is the key to flexible control and the KNX/EIB International Standard for home and building control ensures that a wide range of off the shelf devices from over 300 manufacturers can interact over a common network. The technology can facilitate lowering energy costs, enables remote management and flexible control. KNX can also interact with other systems such as DALI, DMX and many others via gateway devices. Training can be provided by a registered training centre such as BRE (www.bre.co.uk).

Why Replace When You Can Refurbish?

Diffusers & Louvres

Horsell Electrics offer a replacement diffuser and louvres service where they are able to supply standard and bespoke replacements in a comprehensive range of materials and thicknesses.

Diffusers are not only available in sheet form for lay-in luminaires but fabricated diffusers can also be manufactured to a drawing or sample.

Materials include:

Clear Prismatic, Clear Smooth & Opal Smooth in Polystyrene, Acrylic and Polycarbonate.

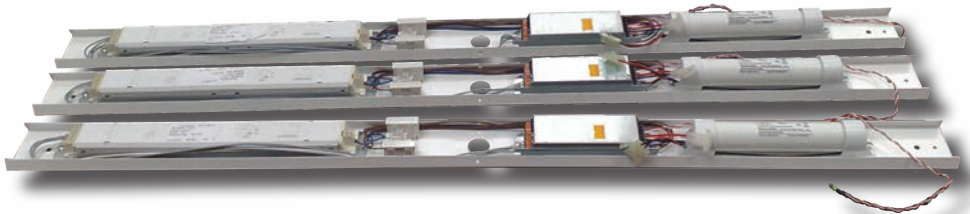
Louvres can also be repaired or replacements supplied from a drawing or sample.

Materials include:

Polished & Satin Aluminium, Eggcrate & Paracube.

Gear Trays

Horsell Electrics can refurbish your current lighting gear tray, or manufacture a replacement using the latest efficient control gear, saving the cost of replacing the complete luminaire.



Refurbishment

Horsell Electrics have taken on luminaire refurbishment projects where replacement lights are not an option.

English Heritage sites, listed buildings or antique luminaires where the fittings are of great importance can be brought up to the latest electrical regulations and efficiency. We can also manufacture parts to replace broken or damaged fittings or complete fittings to match existing luminaires.

Car Park Lighting

Horsell Electrics have recently supplied LED tubes for the multi-storey car parks at Gatwick Airport, this not only saving them 40% in energy usage and carbon emissions but also on installation costs as they were able to retrofit them to their existing light fittings.





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