



Protect, monitor and control electrical circuits



Distribution



Protection



Transformers



Site Lighting

Experts in **high performance**  
power and lighting products

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# Protection of people and property from the harmful effects of electricity

Our comprehensive range of electrical protection safety devices are designed to constantly monitor the electric flow through a circuit and if a fault is detected, automatically switches the circuit off to prevent harm to persons and damage to property and equipment. At the heart of many of these products, manufactured in the UK, are our earth leakage sensors and earth continuity monitors, designed to protect people from the risks of an electric shock and damage to property and equipment.

Our range of Protection products has grown since the late 1960s. Over a period of nearly 50 years we have developed a close association with a number of industry sectors, including Transport, Construction, Military, Film & TV, Education and Heavy Industries such as Nuclear, Steel and Ship Building and Maintenance.

In addition, to our specialist earth leakage sensors and earth continuity monitors, we also use conventional RCCBs and RCBOs within our assemblies. These are selected on the basis of their performance characteristics, such as test circuit range, number of switched poles, selectivity, breaking capacity, etc.

Our detailed knowledge of these devices, and their application, enables us to continue to develop protection solutions for our diverse customer base.

This brochure provides an overview of our comprehensive range of Protection products, our full range can be found on our website at [www.blakley.co.uk](http://www.blakley.co.uk). If you can't find what you are looking for, please contact our Customer Service Centre, who will be pleased to help. If you require a non-standard product or wish to discuss a specific application, our Project Sales Team is on hand to discuss your requirements. They can also be contacted via our Customer Service Centre.



## About Blakley Electrics

Established in 1957, Blakley Electrics Ltd are a market leader in the design and manufacture of high performance power and lighting products.

Harnessing over 60 years of experience in fabrication and electrical assembly, most Blakley products are designed and manufactured in-house, within our Quality Management System, which is accredited to British Standard ISO9001:2015.

Our manufacturing expertise is underpinned by a combination of investment in leading production technology, modern facilities and machinery, and a skilled workforce at our Engineering and Manufacturing Centre in Essex and our assembly plant in Kent.

At our Sales and Customer Support offices in Kent and Leeds, our knowledgeable teams are always on hand to provide advice and guidance.

Product demonstrations, project discussions and customer training are also available at our dedicated Customer Demonstration Centre in Kent.

### What we do

**Permanent Distribution**

**Temporary Distribution**

**Transformers**

**Site Lighting**

**Protection**

Blakley Electrics manufacture a range of Sensor Based RCD assemblies with overcurrent protection in ratings from 1A to 2000A, single or three phase, housed in steel or insulated enclosures. A wide range of sensitivities is offered, assemblies generally comprise of an MCCB working in conjunction with an earth leakage sensor with adjustable sensitivity and adjustable time delay, which is essential if discrimination with sub-circuit RCDs is to be achieved.

## Steel RCD Assemblies IP54



SRC Series RCD / Overcurrent Protection, rated from 100A to 800A, TP&N or 4P, housed in IP54, steel enclosures.

## Steel RCD Assemblies with kWhr Meter



SRC series 100A to 250A 4P variable RCD assemblies with integral kWhr meter, housed in steel IP54 enclosures.

## Combined CT Chamber and RCD



Rated from 200A to 2000A designed to house Current Transformers used to meter LV supplies and the RCD provides fault protection for the site. Widely installed in the London Region and similar assemblies can be supplied to meet South-Eastern Region and Scottish & Southern requirements.

## Insulated RCD Assemblies



Earth leakage protection assemblies with overcurrent protection, rated from 100A to 1600A, 4P, housed in IP55, all insulated enclosures. All models incorporate variable sensitivity and variable time delay.

## Steel RCD Assemblies IP30



Earth leakage protection assemblies with overcurrent protection, rated up to 100A, DP or TP&N, housed in IP30, steel enclosures. All models are classified as Network Rail "DC Immune".





Mains Voltage Industrial Socket Outlet Assemblies to BS EN 60309-2, rated from 16A to 125A, single or three-phase.

Sockets can incorporate RCD and Monitored Earth protection, with or without MCB protection.

Dependent on the overall configuration, assemblies can incorporate mechanical or electrical interlock, to prevent insertion or withdrawal of plugs on load.

Standard assemblies are housed in all-insulated enclosures and non-standard assemblies can be housed in mild steel or stainless steel enclosures with a range of paint finishes.

### RCD Protected Sockets



Safelink combination assemblies incorporate industrial sockets to BS EN 60309-2 with protection by integral 2P or 4P RCCB. They are available in IP ratings of IP44 or IP66, with an interlocked switch as an option, which prevents withdrawal or insertion of plugs on load.

**Enclosures**  
Safelink enclosures are moulded from high impact resistant thermoplastic and the RCCB is located behind a hinged protective window.

**Sockets**  
Socket outlets are to BS EN 60309-2 and available in voltages of 110V, 230V or 400V. IP66 socket available in current ratings of 16A, 32A, 63A and 125A. IP44 sockets available in current ratings of 16A and 32A.

**RCD Protection**  
Safelink assemblies incorporate 2P or 4P Type AC 30mA RCDs to BS EN 61008. At 125A the RCD sensitivity is 300mA.

### RCD / Monitored Earth Protected Sockets



A range of all-insulated RCD and Monitored Earth protected industrial socket outlets in current ratings of 16A, 32A or 63A. Assemblies are available in voltages of 230V or 400V, single or three-phase. Pin configurations are dependent on the current rating of the assembly.

As standard, assemblies up to 32A have an ingress protection rating of IP44 and at 63A they have an ingress rating of IP67. If required, an ingress rating of IP67 can be provided for assemblies rated at 16A and 32A.

### IP44 RCD Protected Sockets



A range of all-insulated, IP44 rated, RCD protected socket outlets to BS EN 60309-2, with or without mechanical interlock, in current ratings of 16A and 32A and voltages of 110V, 230V and 400V.

### IP66 RCD Protected Sockets

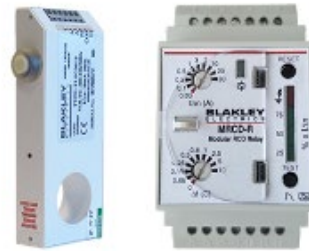


A range of all-insulated, IP66 rated, RCD protected socket outlets to BS EN 60309-2, with or without mechanical interlock, in current ratings of 16A, 32A, 63A and 125A and voltages of 110V, 230V and 400V.

## PEMS Protected Sockets



RCD and Monitored Earth protected sockets provide protection in accordance with MOD Technical Bulletin TB 03/05, and their use is mainly within military aircraft hangars and hardened shelters.



Core balance earth leakage sensors with fixed and variable sensitivity to work in conjunction with circuit breakers and contactors to provide RCD protection.

Devices are available with a wide range of sensitivities, suitable for current ratings from 1A to over 1000A, single or three phase.

## BNFL Welding sockets



RCD and Monitored Earth protected socket outlet, 32A 400V 6 pin, with the addition of MCB protection, surface mounting steel enclosure. Manufactured in accordance with the requirements of Sellafield Sites / BNFL.

## ELS Series Earth Leakage Sensor



The ELS series is a fixed sensitivity device and is suitable for load currents up to 125A. Available in sensitivities from 5mA to 500mA.

## NHS Specification Monitored Earth Sockets



Monitored earth / RCD protected socket assemblies with integral POAG sockets, for 230V single phase or 400V three-phase applications, in current ratings of 16A, 32A, 63A or 125A.

## MRCD Series



MRCD Series Variable Modular RCD and CTS Loose MRCD sensors and CTs have a sensitivity adjustment range of 30mA to 30A (dependent on the ID of the CT) and the time delay adjustment range is 0 to 10 seconds.

Designed for installation in locations, where the proximity of children, water and mains voltage electricity creates an extremely hazardous environment requiring the highest level of protection against electric shock. Safe Supply Units provide a threefold level of protection:

- RCD sensitivity of 1.25 mA or 5 mA
- Shock current restricted to 10 mA
- Reduced line to earth shock voltage of 115V

Enclosures are of robust construction to ensure longevity and to minimise vibration and noise and are ventilated to assist with cooling and fine mesh is fitted behind the louvres to prevent the insertion of litter and other debris.



## CELU SERIES



Safe Supply Unit in floor standing console style enclosure, 3 or 5 kVA rating, 1.25mA or 5mA sensitivity, 3 no. outgoing DP MCBs.

## FELU SERIES



Safe Supply Unit in floor standing enclosure, 5, 8 or 10 kVA rating, 1.25mA or 5mA sensitivity, option of 2, 3 or 4 outgoing DP MCB ways.

## WELU SERIES



Safe Supply Unit in wall mounting enclosure, 2 or 3 kVA rating, 1.25mA or 5mA sensitivity, option of 2 or 3 outgoing DP MCB ways.

## Variable Laboratory Supply Units



Variable Laboratory Supply Units (VLSUs) provide a separated extra low voltage supply, which enable experiments to be carried out in safety. They provide an AC or DC output, which is selected from a switch at the front of the assembly. The output voltage can be adjusted from 0 to 20V via a Variac and analogue voltmeters and ammeters display the voltage and current at the VLSU output terminals.

Enclosures can be floor standing or wall mounting, dependent on the power rating of the VLSU.

Bench sockets with a range of termination types are also available.



**1. Leeds**

Sales

**2. Harlow**

Manufacturing  
Engineering  
Design

**3. Crayford**

Manufacturing  
Sales

# **BLAKLEY**

E L E C T R I C S

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