REACTA WIRELESS

REACTA-LINK

Dextra GROUP PLC

Reacta Wireless combines simplicity with control.

By choosing a wireless system you can reduce installation time and cost and simultaneously implement a connected lighting control system offering everything from linked sensor control through to a full lighting management solution. Reductions in energy usage, emergency testing and installation costs can be made without the expense and inconvenience of installing a wired BUS system throughout your site.

Reacta Wireless is available in a range of tiers, from a web based full lighting management and emergency testing system through to more simplistic linked sensor and wall switch operation, Reacta Wireless can offer a solution to meet your needs at all levels.

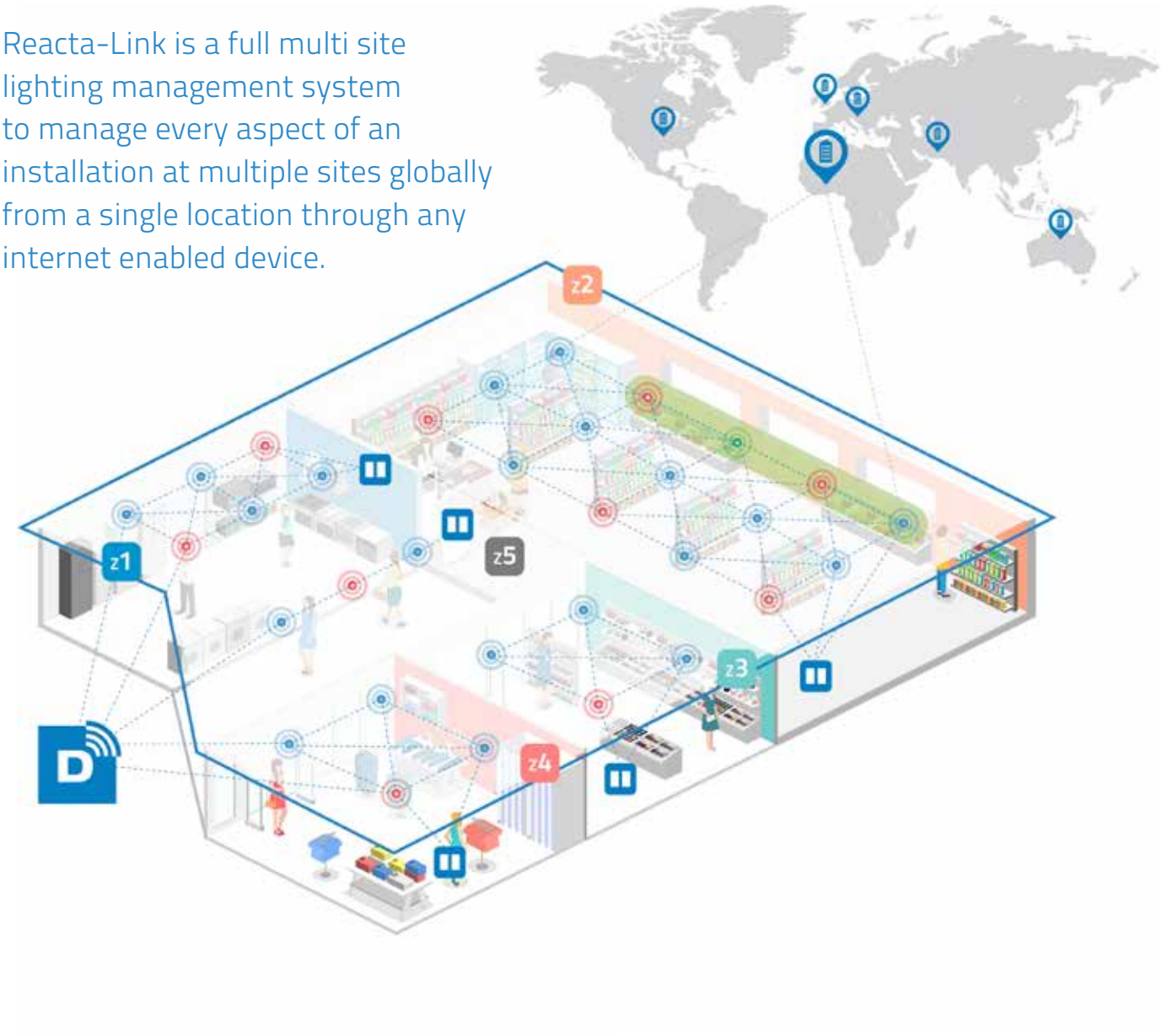
The Reacta Wireless range incorporates four separate systems.

Reacta-Link is used for internet based reporting of every aspect of your installation across multiple sites including energy, faults and emergency reporting amongst others. Where more basic linked sensor operation is required Reacta-Air is used for internal IP20 applications and Reacta-Wave is used for IP65 applications.

	REACTA-CONTROL	REACTA-LINK	REACTA-AIR	REACTA-WAVE
OPERATION				
Presence detection	Y	Y	Y	Y
Daylight regulation	Y	Y	Y	Y
Grouped mains operation	Y	Y	Y	Y
Wireless wall switching	Y	Y	Y	N
White tunable	Y	Y	N	N
Local Control Key Fob	N	Y	N	N
Local Control Mobile App	Y	Y	N	N
REPORTING				
Mains fault reporting	Y	Y	N	N
Energy reporting	Y	Y	N	N
Heat mapping	Y	Y	N	N
Emergency Reporting	Y	Y	N	N
Central Battery Reporting	N	Y (optional extra)	N	N
OTHERS				
Multiple Site internet based control	N	Y	N	N
Building drawing upload for graphical interface	N	Y	N	N
Individual Site PC based control	Y	N	N	N
Integration with Wired DALI	Y	N	N	N
Interior & External	Y	Y	N	Y

REACTA-LINK

Reacta-Link is a full multi site lighting management system to manage every aspect of an installation at multiple sites globally from a single location through any internet enabled device.



Luminaire
RLI Wireless Connection
or
RLS Wireless Connection and Integral Presence Sensor

Emergency
STR

Daylight Sensor
RLS

Switches
RLW

Reacta-Link Hub
RLI HUB

REACTA-LINK OVERVIEW

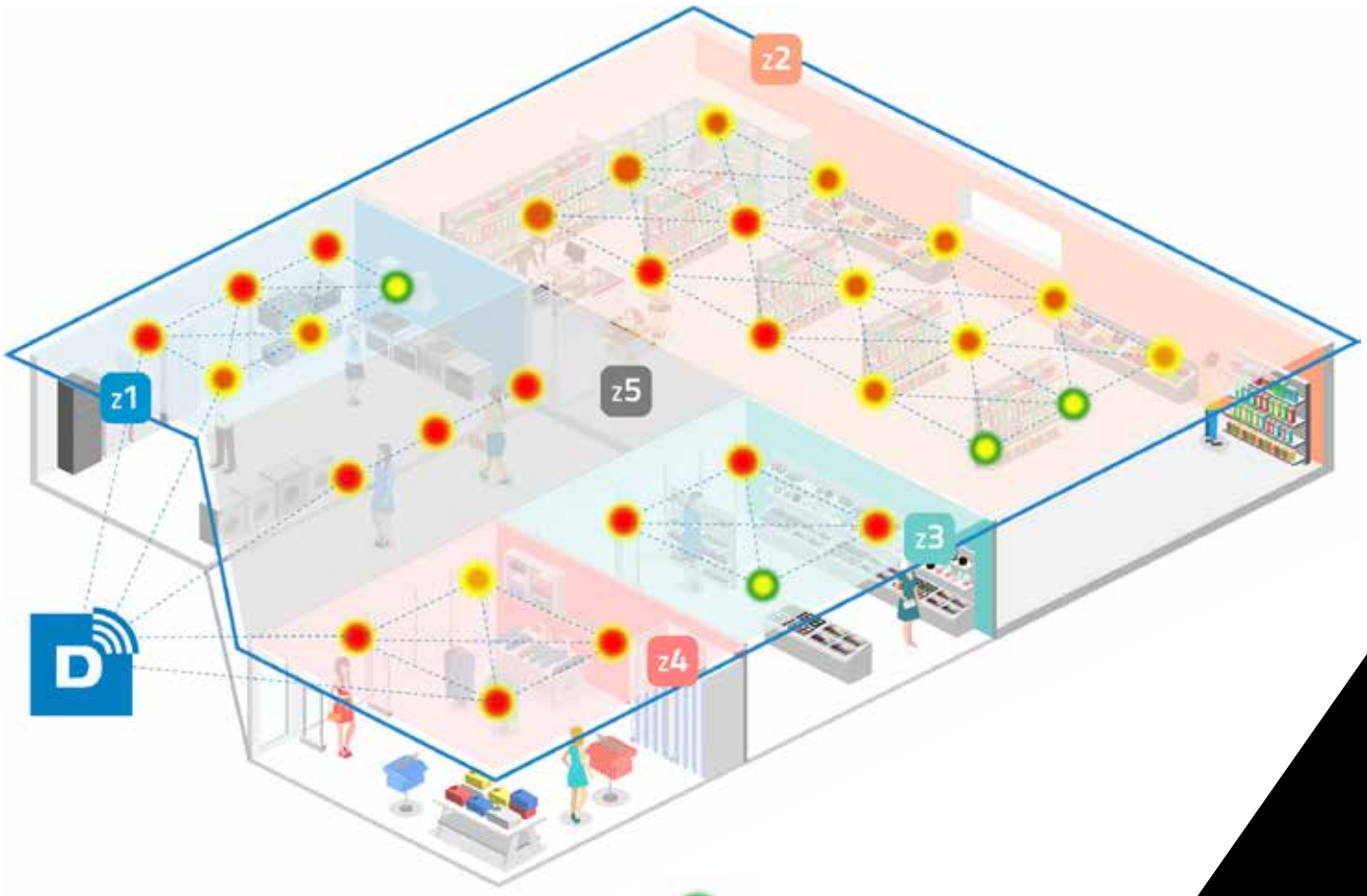
- Group your luminaires and control devices in any configuration required, any sensor or wireless wall switch can be wirelessly linked to control any luminaire on the installation.
- Use a single daylight enabled sensor in one luminaire to wirelessly daylight regulate all other luminaires in the same group.
- Battery powered wireless wall switches eliminate the need to run power feeds down walls, simply mount them on the wall and group them to the required luminaires, significantly reducing installation costs.
- Quick and simple adjustment of groups. In the event of a change of use of an area or building layout sensors and wall switches can be regrouped without the need to adjust wiring.
- Central reporting of emergency failures allows compliance to BS 5266 without the cost of manual testing on site providing a rapid return on investment over standard emergency installations. Please note that emergency test times can not be scheduled, and require an RLI Hub with internet connection to enable reporting.
- Central reporting of mains luminaire failures allows prompt and effective maintenance to be undertaken.
- Simple and low cost alternative to a traditional wired DALI installation eliminates control wiring and routers, ideal for retrofit applications where only power cabling is present yet minimal installation costs are required.
- Heat Mapping enables monitoring of room usage allowing space to be utilised to maximum effect and allowing retailers to monitor customer movements and optimise store layouts.
- Graphical room layouts provide a user friendly website interface.
- All drawings and data backed up to the cloud to ensure safe and secure storage.
- Energy consumption reporting allows you to monitor usage and identify opportunities for savings to be achieved.
- BACnet compatible allowing simple interface with your BMS and other building systems.
- Automatic healing, a single failed device on an installation will recommission itself when it is replaced.
- Mobile phone app allows local control override of luminaires for dimming and switching.
- Key fob providing local override of luminaires for dimming and switching.
- 5 year warranty on Reacta-Link components.

HEAT MAPPING

Monitor your installation hour by hour, day by day, to better understand the movements of your staff and customers allowing you to optimise store layouts or maximise area usage increasing sales or reducing the operating costs of buildings.

Reacta-Link allows you to heatmap your installation by energy, occupancy, and utilisation to allow monitoring of footfall, luminaire on time and energy usage.

- Ideal for schools and universities, understand the occupancy levels of each lecture hall and classroom allowing under utilised spaces to be identified and classes moved to smaller rooms thereby reducing running costs.
- Allows facilities managers to determine how to move staff to use space to best effect and close areas of buildings with low levels of occupancy.
- Retailers can quickly and easily gain an understanding of the movements of customers around the store identifying successful promotions and displays, identify high footfall areas for premium promotions, and locate store areas where footfall is poor and customer interest needs to be stimulated.



Low Occupancy

Medium Occupancy

High Occupancy

CENTRAL BATTERY

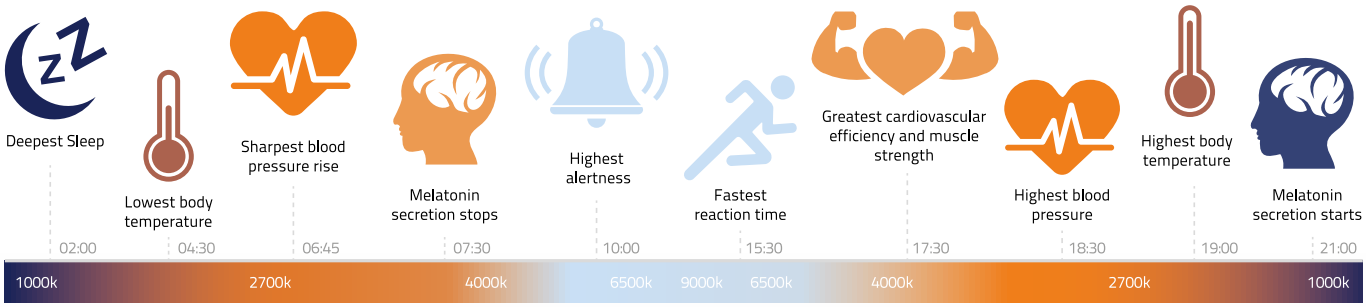
Reacta-Link offers wireless compatibility with locally switched central battery systems allowing you to centrally monitor the status of your emergency luminaires for driver or LED failures.

- Minimise the cost of maintaining your emergency lighting system with automated testing of emergency luminaires.
- Centralised off site storage of all emergency failure reports ensuring compliance with BS 5266.

WHITE TUNABLE

Reacta-Link is available with DT8 twin channel white tunable functionality allowing adjustment of colour temperatures through the day.

- Use the Reacta-Link web portal to set and adjust colour changes automatically over the course of a day.
- Simulate the colour temperatures of natural daylight to enhance well being for employees and customers.
- Use colour temperatures to enhance your environment, warm colour temperatures can be used to create an inviting and comforting atmosphere while cooler colour temperatures can enhance areas where a clean and sterile appearance is required.
- **Click here** for more white tunable information.

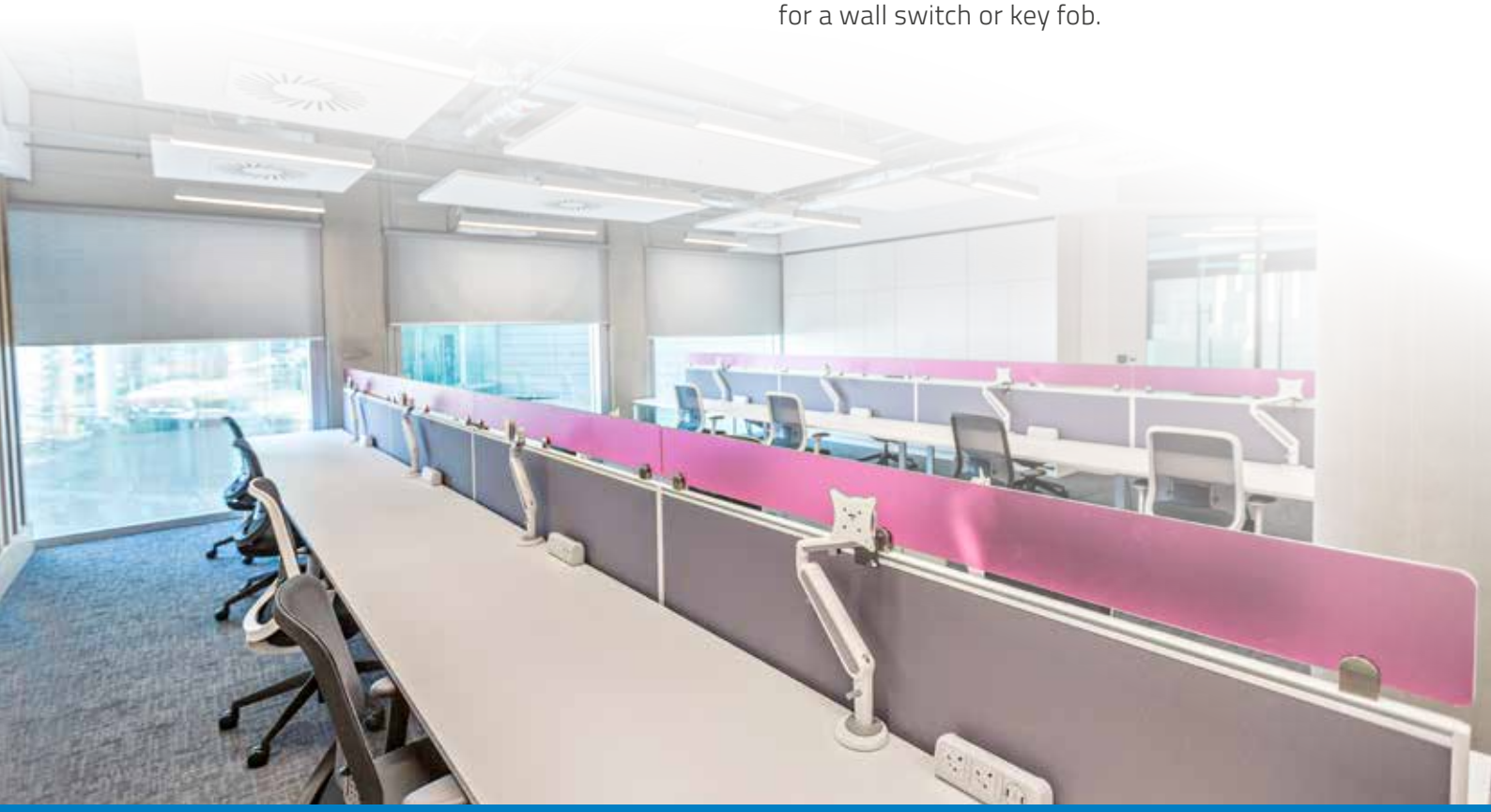


KEY FOB

Where local control of luminaires is required the key fob provides a small and simple solution allowing luminaires to be scene controlled, ideal for classrooms and lectern applications where adjustment of lighting to new scenes is required without the presenter moving to a wall switch.

MOBILE APP

The mobile app allows any permitted user to adjust scenes within a room without the need for a wall switch or key fob.

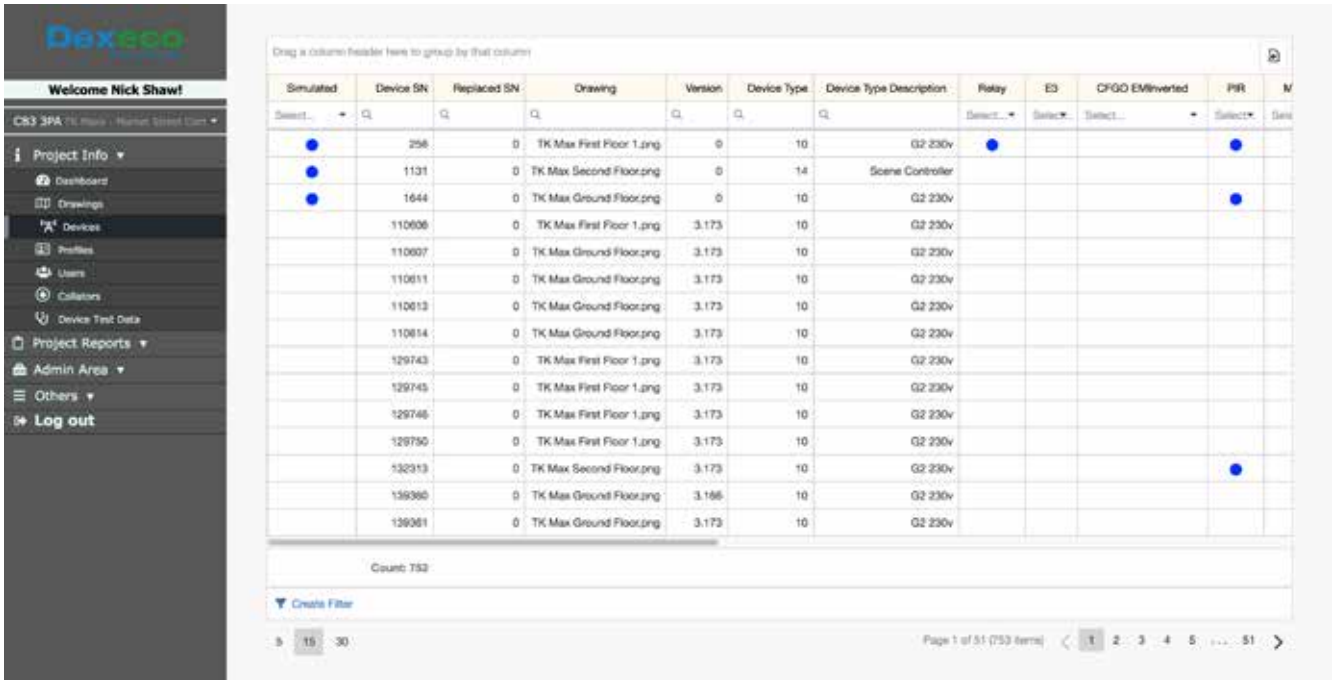


REACTA-LINK, YOUR WEBSITE PORTAL

The global map overview allows you to select any of your installations anywhere in the world and manage your lighting remotely from any web enabled device.

Dashboard overview provides user friendly and accessible summary of your installation.

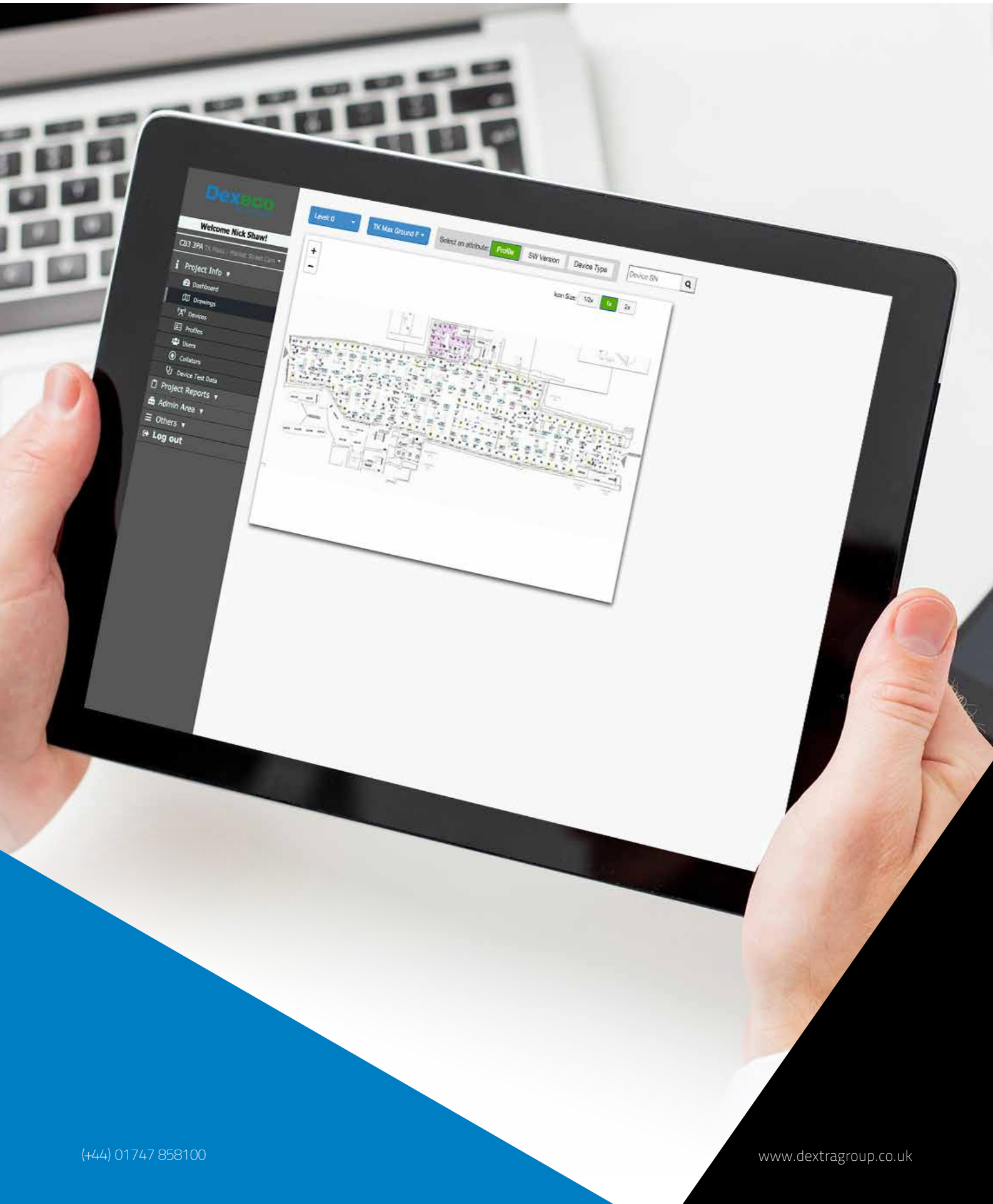
REACTA-LINK, YOUR WEBSITE PORTAL



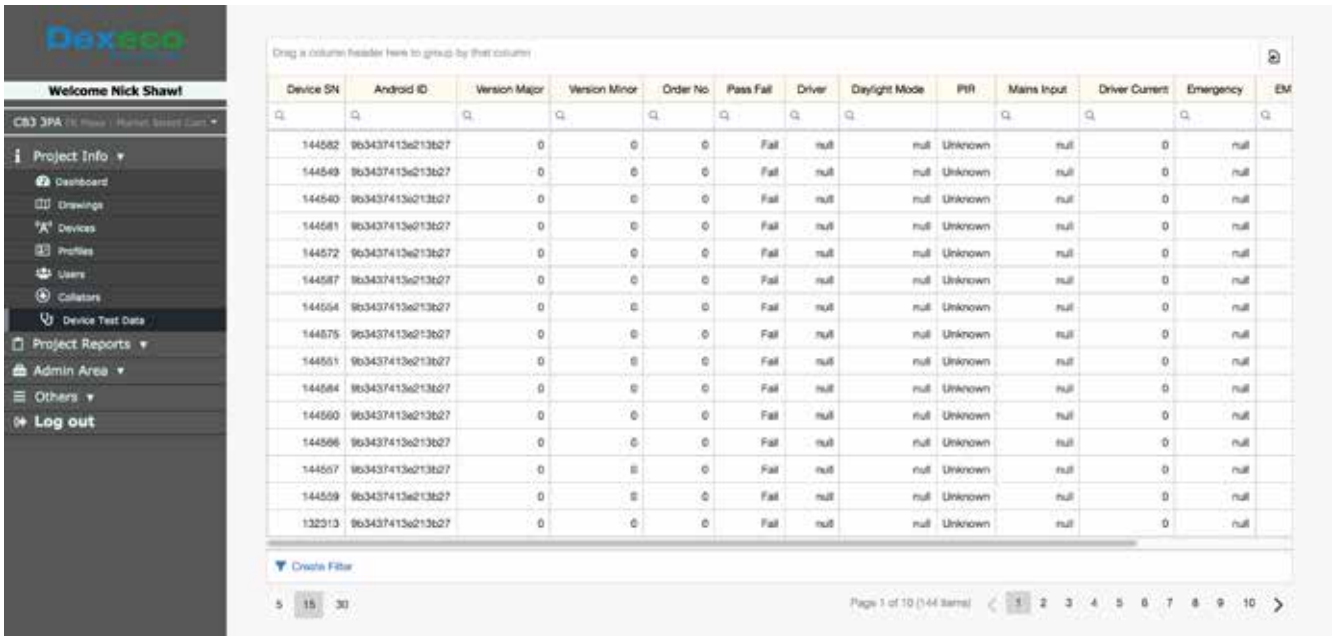
Remotely view settings such as time delays, fade rates and lux levels amongst many others.

REACTA-LINK, YOUR WEBSITE PORTAL

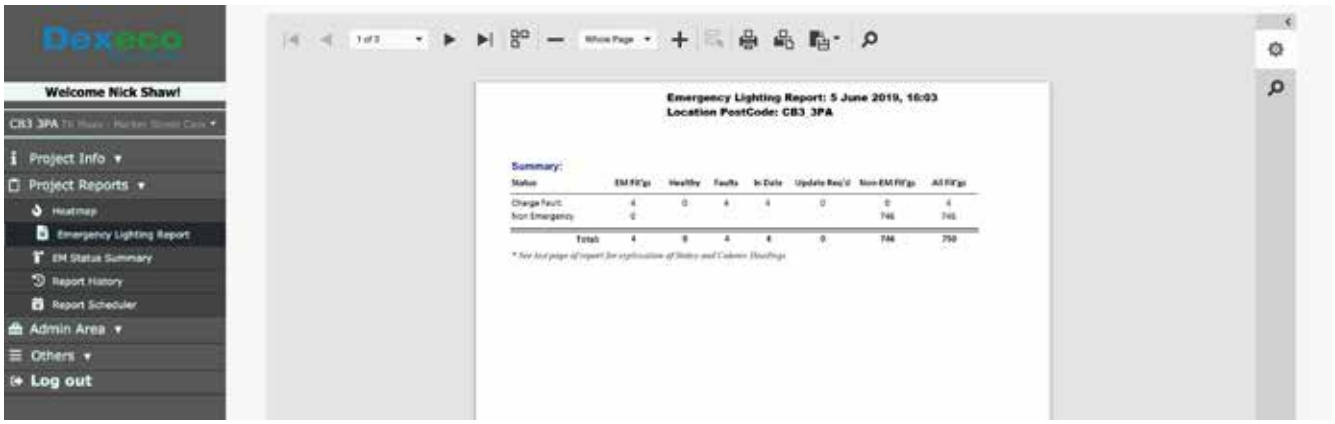
Upload drawings to provide a user friendly graphical interface to manage your lighting and direct engineers to undertake repairs quickly and accurately, with the correct replacement parts.



REACTA-LINK, YOUR WEBSITE PORTAL

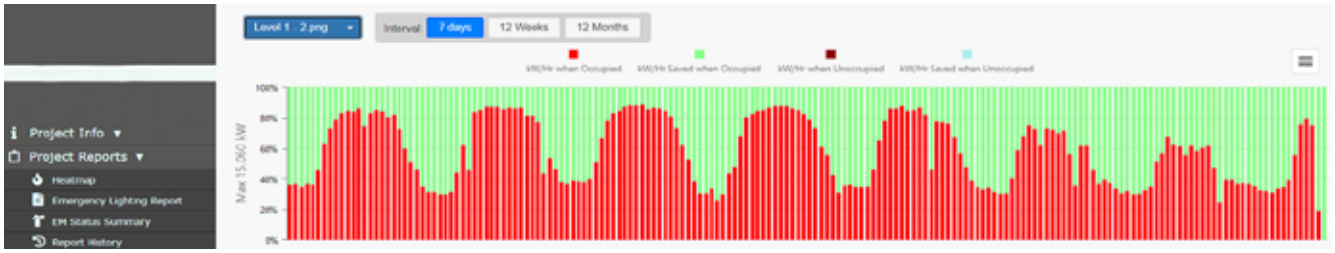


Access reports for the status of each device on site for luminaires, emergency, sensors and switches.



Access the last emergency test undertaken to identify any failures enabling urgent rectification.

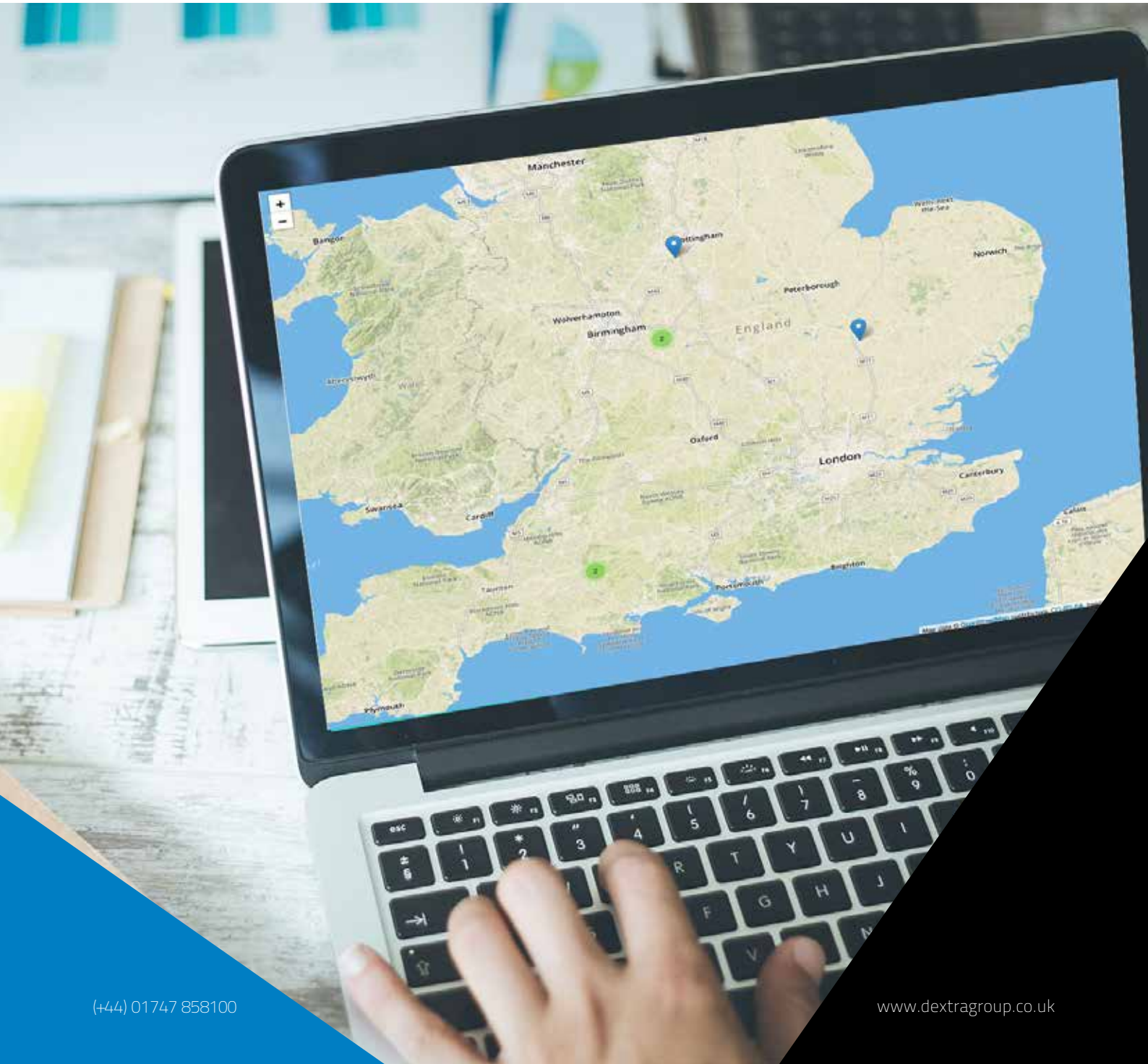
REACTA-LINK, YOUR WEBSITE PORTAL



- Energy graphs showing trends in energy usage over varying time scales and at individual drawing or site levels.
- Individual luminaire energy consumption data.
- Energy, utilisation and occupancy heat maps allow area usage to be monitored and energy saving potential to be identified.

Why Reacta-Link?

- Install a DALI system at reduced cost, there is no need to install DALI cabling, power supplies or routers and wall switches are entirely wireless.
- The installation of a wireless network throughout your building brings the potential to integrate with other systems with appropriate connecting software.
- Automate your emergency testing without the need to install a full wired DALI system eliminating the cost of manual testing, Reacta-Link can be installed as an emergency only system where controls of mains luminaires is not required.
- There are no annual maintenance fees to operate the Reacta-Link system, only the initial purchase price and commissioning cost.



What do I need to consider with regards to signal strength and wireless communication?

The mesh networking system should provide reliable communication in most instances, however it is important to consider factors such as the fabric of the building , the luminaire design and luminaire spaces.

What is involved in commissioning and set up?

Commissioning of installations is typically provided by Dextra by our team of experienced commissioning engineers.

What happens in the event of internet failures?

Should the internet connection on an installation fail the luminaires on site will continue to operate normally and users on site should see no interruption at all. It will not be possible however to log into the website and collect any energy, heat mapping or emergency test data from that installation until the internet connection is restored. The Reacta-Link hub can be connected to the internet via a 4G dongle if needed to overcome these issues in case of a long term disconnection.

How secure is my wireless installation?

Various security measures are in place to minimise the risk of your system being compromised, full details are available on request.

COMPONENT CODES

RLS
Reacta Link wireless sensor
Max height 6M

RLI
Reacta-Link D4i Wireless module

STR
Reacta Link wireless emergency

RLI HUB
Reacta Link Hub

RLW
Battery powered wireless wall switch

RLKF
Reacta-Link Key Fob

REACTA LINK PHOTOCELL F
Reacta-Link Standalone Photocell Recessed

REACTA LINK PHOTOCELL
Reacta-Link Standalone Photocell Trunking Mount

RLS REMOTE SENSOR
Reacta-Link Standalone Presence Sensor

Frequency – 868MHz