REACTA WIRELESS

REACTA-AIR

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.

Reacta-Air is commissioned through any Bluetooth enabled mobile device, and uses its own bespoke 2.4gHz communication protocol between wireless nodes.

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 offers more advanced wireless control and integration into single site wireless emergency reporting.

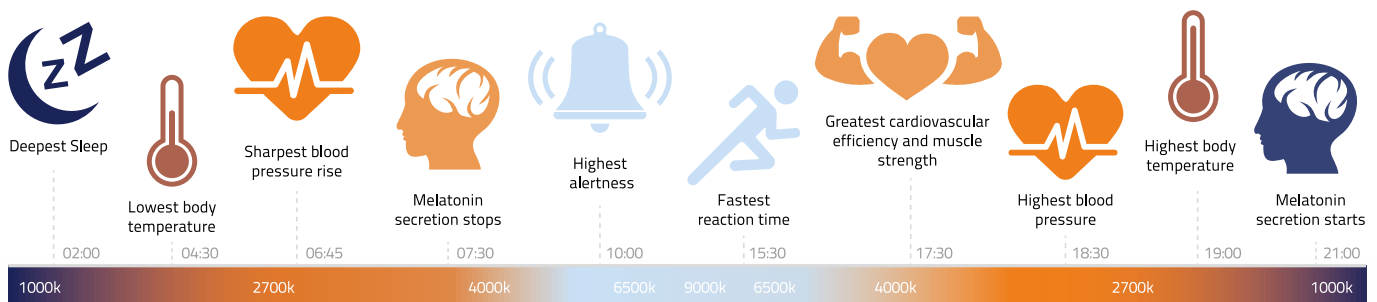|	REACTA-CONTROL	REACTA-LINK	REACTA-AIR	REACTA-WAVE
OPERATION				
Presence detection	Y	Y	Y	Y
Daylight regulation	Y	Y	Y	Y
Grouped mains operation	Y	Y	Y	Y
Wireless wall switching	Y	Y	Y	N
White tunable	Y	Y	N	N
Local Control Key Fob	N	Y	N	N
Local Control Mobile App	Y	Y	N	N
REPORTING				
Mains fault reporting	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

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.
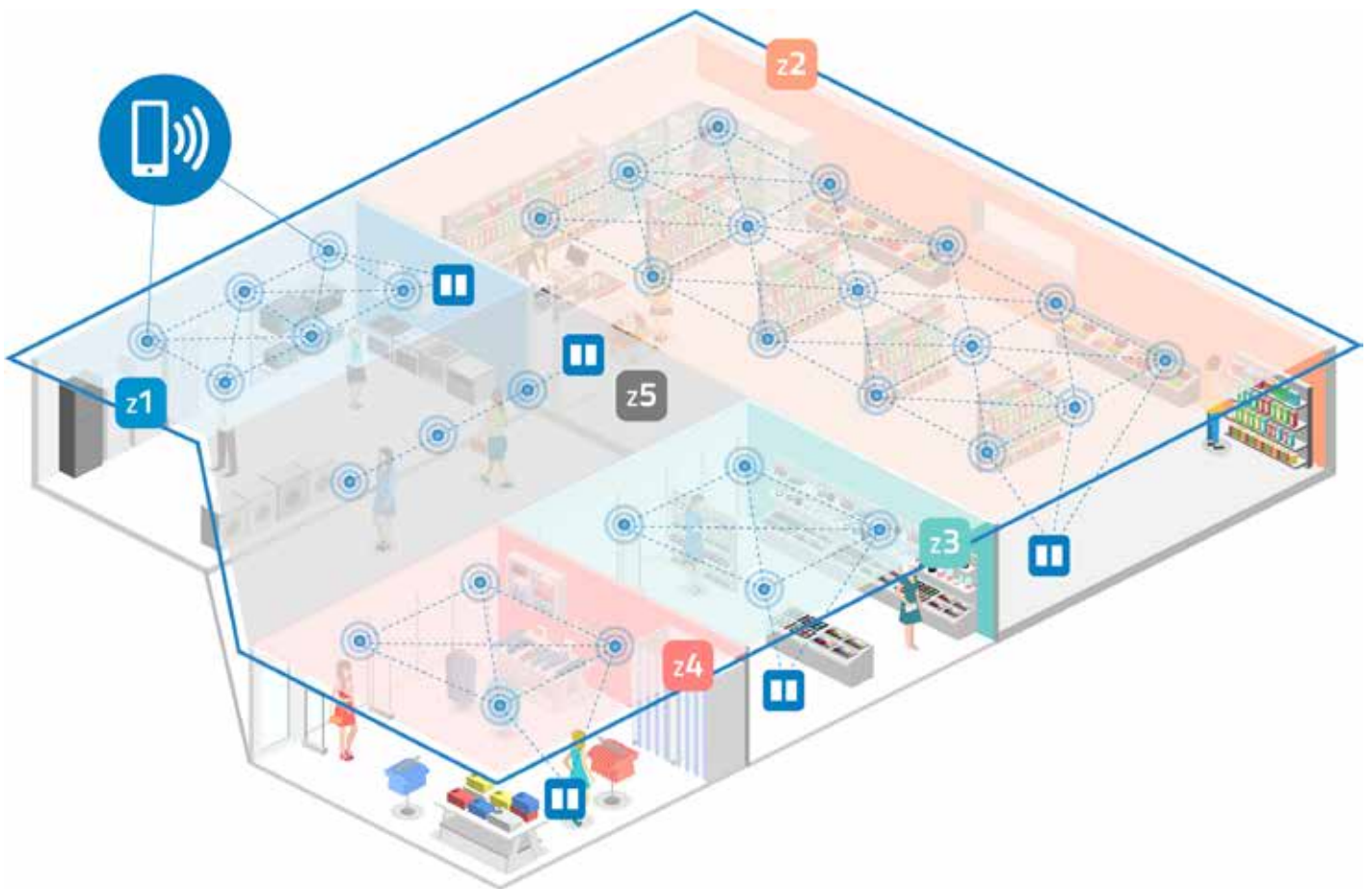
- Use the Reacta-Link web portal to set and adjust colour changes automatically over the course of a day.

- 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.

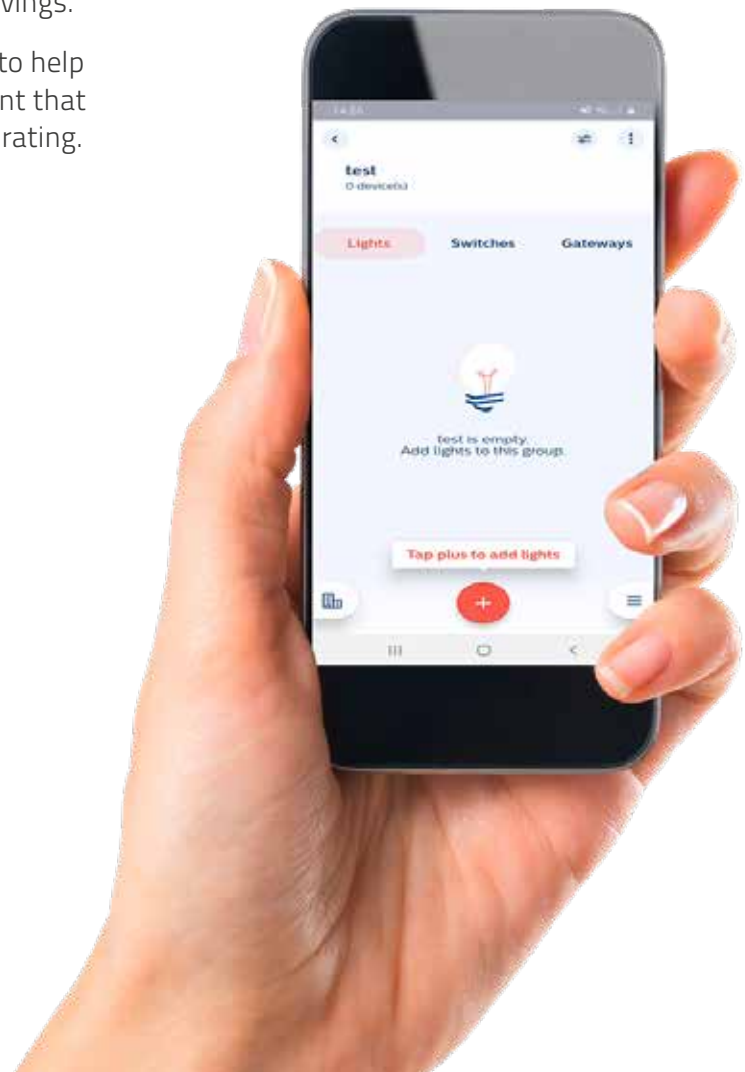| Deepest Sleep	Lowest body temperature	Sharpest blood pressure rise	Melatonin secretion stops	Highest alertness		Fastest reaction time	Greatest cardiovascular efficiency and muscle strength	Highest blood pressure	Highest body temperature	Melatonin secretion starts
02:00	04:30	06:45	07:30	10:00		15:30	17:30	18:30	19:00	21:00
1000k		2700k	4000k	6500k	9000k 6500k		4000k	2700k		1000k

Whilst Reacta-Link offers a full multi-site management system, often clients require a more basic approach where luminaires, sensors and switches can be linked together without the cost and expense that is incurred with the installation of a wired system. In these instances Reacta-Air and Reacta-Wave offer the optimal solution.

In internal applications the Reacta-Air system offers an IP20 solution ideal for schools, hospitals, offices and universities amongst many others, whilst Reatca-Wave is suited to IP65 installations such as external, industrial, multi storey car parks and internal amenity applications such as corridors and stairways.

As with Reacta-Link these systems offer simplicity and control, mobile based commissioning allows quick and user friendly grouping of luminaires and wireless wall switches without incurring the expense to install DALI cabling, routers and power supplies or commissioning.

- Group devices so that any activation can operate all luminaires within the group.

- Wireless battery powered wall switches and sensors allow quick and simple installation to be undertaken, simply mount the switch or sensor on the wall and group with the appropriate luminaires, there is no need to run power feeds to switches or BUS cabling between devices.

- Commissioning is undertaken through Bluetooth Android or Apple mobile devices with a user friendly interface. The simplicity of the system avoids the expense of employing commissioning experts.

- Adjust all parameters via your mobile device, enable and disable PIRs, daylight regulation levels, time delays and fade rates amongst many others.

- Reacta-Air allows power monitoring of groups allowing you to validate your energy savings.

- White Tunable control is now included to help create a welcoming healthy environment that contributes to your buildings Wellness rating.

- Simple adjustment of groups should building layout or area usage change, there is no need to modify wiring, simply allocate your wireless switches or sensors to the luminaires required.

- Ideal for grouped operation in corridors and stairways with multiple points of access, group all luminaires to light the entire area ensuring safe lighting.

- In open plan offices group luminaires so lone workers have sufficient lighting from surrounding luminaires.

- Up to 120 devices per group, please note maximum group sizes may be reduced with wireless switching and energy reporting, please contact our technical department for full details.

- 5 year warranty on Reacta-Air components

Occupancy based control
Turns the PIR on / off

Daylight based control
Turns daylight regulation on / off

Daylight dependent override
Will hold the luminaires off when there is sufficient daylight in the area. Once there is presence in the area they will only switch on when the lux level drops below 150% of the set value (Field Task Value).

Daylight dependent switching
When turned off the luminaires will not dim below the Background Light Level regardless of daylight level. With this turned on the luminaires will turn off when the lux level exceeds 150% of the set value (Field Task Value).

Group Light Behaviour
Background Light level: Any luminaire that is triggered will increase output to Field Task Level, others in the group will increase level to Background Light Level.

Field Task Level: If any luminaire in a group is triggered all luminaires in that group will increase output to Field Task Level.

Occupancy Mode
Auto on/off: The luminaires will only turn on and off from the sensor

Manual on/off: The luminaires will only turn on and off from the grouped wireless wall switch

Manual on/Auto off: The luminaires will only turn on from the wall switch, and turn off from either the wall switch or through absence (Absence Detection)

Field Task Level
Determines the output required in areas of occupancy, the working lux level.

Eco On Level
Determines the output of the luminaires when first switched on.

Background Light Level
The level to which the luminaires will dim during periods of absence, or the level to which luminaires in a group will operate when motion is not detected when Group Light Behaviour is set to "Background Light Level".

Hold time
The amount of time the luminaires spend at full output after the last seen motion before dimming to the Background Light Level.
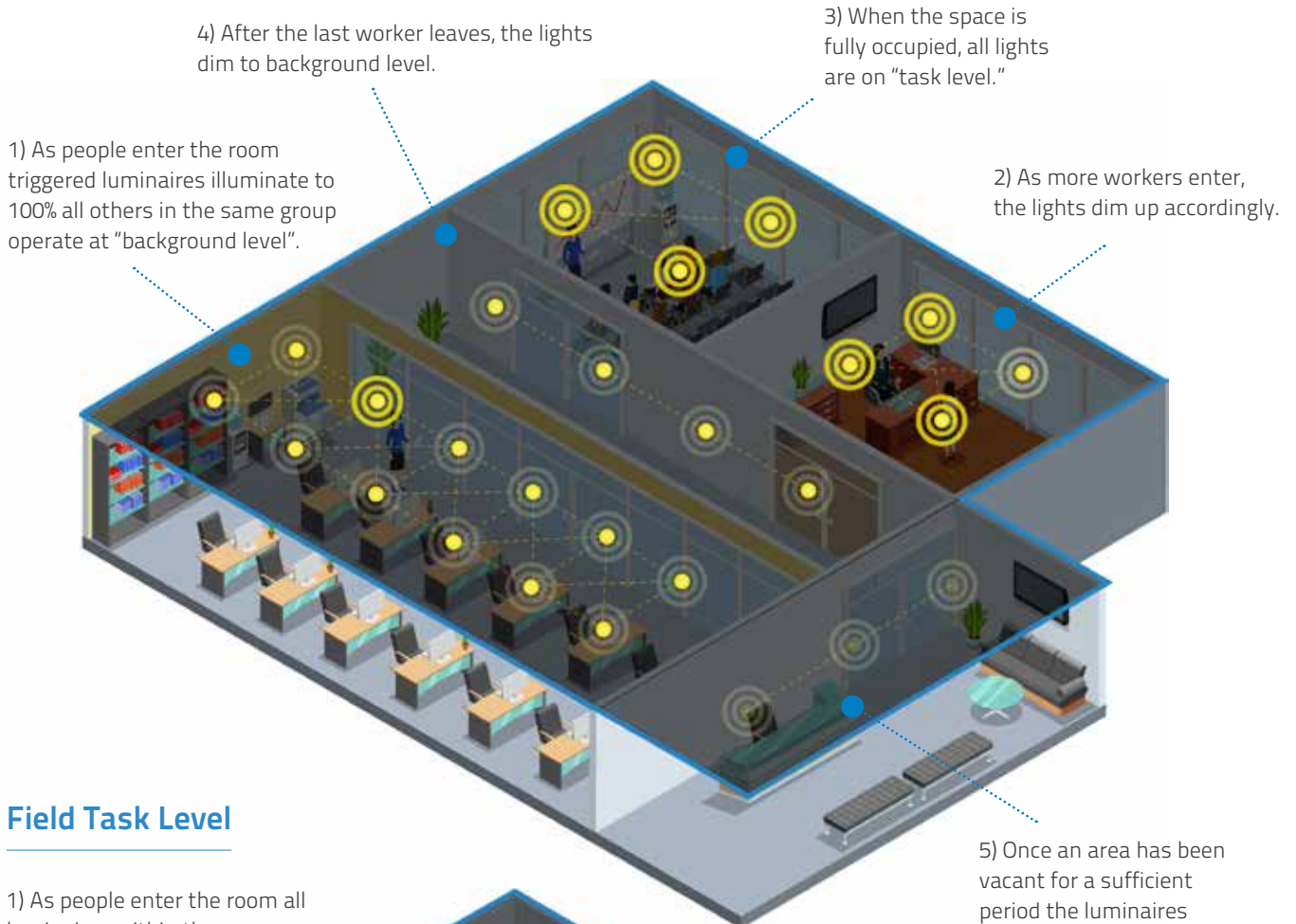
Prolong Time
The amount of time the luminaires spend at the Background Light Level before turning off altogether.
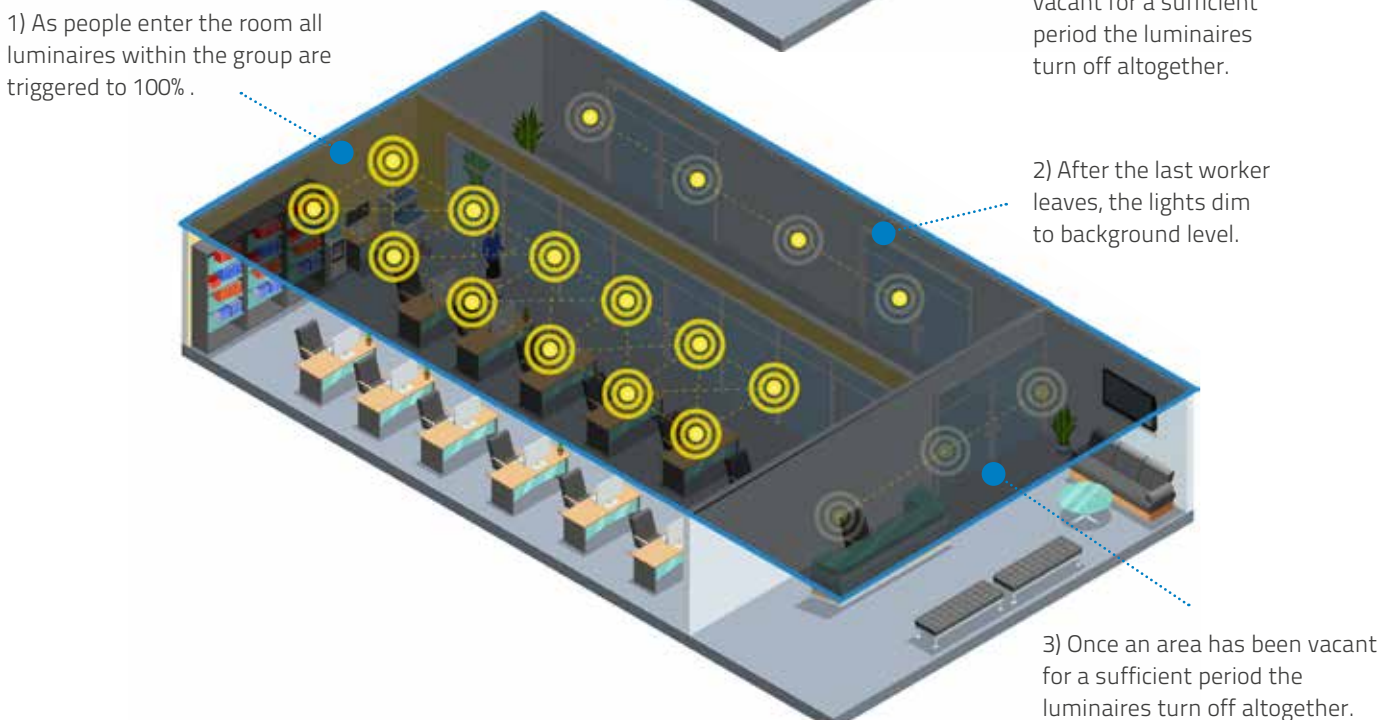
Grace Fading
The amount of time the luminaires take to dim from the Field Task Level to the Background Light Level.

Configure your Reacta-Air installation to suit your requirements for background light levels across the group when areas are only partially occupied.

Background Light Level

4) After the last worker leaves, the lights dim to background level.

3) When the space is fully occupied, all lights are on "task level."

1) As people enter the room triggered luminaires illuminate to 100% all others in the same group operate at "background level".

2) As more workers enter, the lights dim up accordingly.

5) Once an area has been vacant for a sufficient period the luminaires turn off altogether.

Field Task Level

1) As people enter the room all luminaires within the group are triggered to 100% .

2) After the last worker leaves, the lights dim to background level.

3) Once an area has been vacant for a sufficient period the luminaires turn off altogether.

Commissioning

Bluetooth wireless communication allows for quick and simple commissioning via two methods.

Proximity Commissioning

Ideal for smaller installations, proximity commissioning will allow all devices within Bluetooth range to be visible on your mobile device. When a device is selected on the list the associated luminaire will begin to flash allowing you to group them as required.

Torch Commissioning

For larger installations it may be helpful to be able to group luminaires with a directional device for speed and simplicity. Simply activate grouping mode on your mobile device and all luminaires within Bluetooth range will be added to the group when the photocell sees sufficient light, this allows luminaires to be rapidly grouped by simply shining a reasonably powerful focused torch into the sensor.

Security

When commissioning your installation the devices will be permanently linked to the mobile device used. When completed it is important to synchronise your settings with the cloud through the Philips Masterconnect App, this enables access rights to be granted to other devices through a password protected system and ensures that your sensors can still be adjusted in the event that the original commissioning device is lost or damaged.

REACTA-AIR WIRELESS COMPONENTS

RAS
Reacta-Air Integral presence and daylight sensor

RAD
Reacta-Air Driver for use with RASS and RASSD Sensors

RAN
Reacta-Air Node

RASS
Reacta-Air Standalone Presence Sensor for control of luminaires containing RAD drivers. Battery powered and wireless, no wiring required.

RASSD
Reacta-Air Standalone Presence and Daylight Sensor for control of luminaires containing RAD drivers. Battery powered and wireless, no wiring required.

REACTA-AIR WIRELESS COMPONENTS

RASW 2B
Dimmable, kinetic battery less wireless wall switch

RASW 4B
Dimmable, kinetic battery less wireless wall switch

REACTA-AIR APP
Available on both Android and Apple devices, commissioning is undertaken through Bluetooth.

Please note that Reacta-Air and Reacta-Wave are not interoperable, they must be used as stand alone systems.
Frequency 2.4GHz
Please download the Philips Masterconnect App for commissioning purposes

REACTA-AIR APPS USER MANUAL