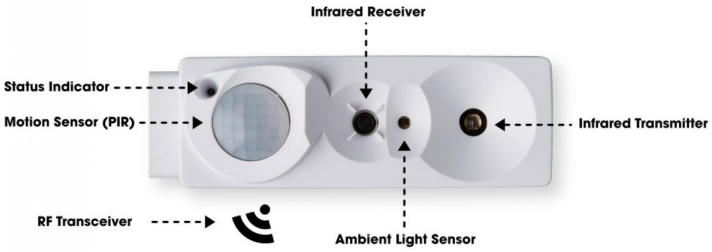
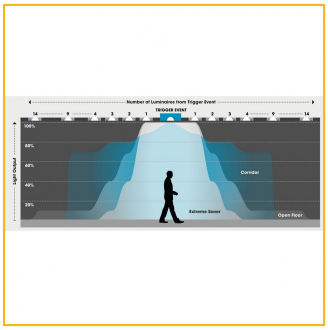
Organic Response® Integral Sensor Node (SN3)

Integrated wireless lighting control with connectivity at its core

IP20





Pre-Set Personalities

Third Generation Sensor Node

Bluetooth® Low Energy Wall Switches

Overview

One sensor node, unlimited flexibility

Organic Response® uses an innovative Proximity Limited Communication system that reacts to occupancy and daylight sensed by a single luminaire detector and then transmits data to nearby luminaires.
The detector is integrated into every luminaire and includes an infrared transmitter and receiver to create the send and receive signal for the building wide wireless communications. The patented Proximity Limited Communication system will react to complex occupancy patterns and modify its behaviour as the building use changes.
Take The Tour to see how Organic Response® operates.

Creating connected spaces with the Organic Response® Portal platform

A secure and simple, yet powerful cloud-based data analytics and lighting control platform, which allows remote monitoring and control of lighting assets as well as visibility into occupancy data, enabling ongoing workplace efficiency improvements and savings.

Emergency Lighting Testing & Reporting

Schedule and record emergency lighting central automatic testing in accordance with local standards to support the scheduling of predictive maintenance.

Features

- Four levels of system interaction
  - Instant Functionality (Tier One)
  - Optimise Lighting Behaviour (Tier Two)
  - Configure Lighting Scenes (Tier Three)
  - Cloud-based data analytics and lighting control platform (Tier Four)
- Pre-set lighting personalities for the ultimate balance between occupancy comfort and energy efficiency
- Dual layer communication architecture
  - Proprietary infrared messaging for real time communication between neighbouring sensor nodes
  - Low energy RF mesh network for communication via a gateway to the BMS and / Cloud
- Schedule and record emergency lighting central automatic testing in accordance with local standards
- No need for expensive and disruptive commissioning or re-commissioning, the system intuitively adapts to the building use
- Compatible with a wireless range of wall switches
- Remote version available for luminaires which cannot accommodate sensor node integration
- Download the Organic Response brochure for more information.

Specification

- Node to Node Communication Protocol
  - Control - Organic Response® Wireless Infrared
  - Data - Wirepas Wireless RF (2.4 GHz)
- Detection Range
  - 2.5M circular radius
  - 2.7M luminaire height
- Distance between sensor nodes
  - 1M to 3M
- Ambient Temperature 0ºC to 50ºC
- Ethernet Gateway required for Organic Response® Portal
  - Maximum 150 nodes per IoT Gateway

Order codes

Organic Response® Accessories

Organic Response® Gateway Kit	ORGGWKIT
BLE Wall Switch (Single)	BLEWSSW
BLE Wall Switch (Double)	BLEWSDW
Battery Wall Switch	ORGWP
Battery Wall Switch (Classroom)	ORGWPC

Organic Response® integrated sensor nodes require luminaires to be fitted with DALI drivers, for luminaire integrated sensor codes, please visit the corresponding product page.

Dimensions

	L	W	H	KG
SN3 Integrated Node	62mm	22mm	28.35mm	0.25

To Specify

Wireless Proximity Limited Communication lighting control system with dual layer communication architecture. Integrated or remotely housed sensor nodes detect motion and ambient daylight levels and transmit and receive infrared messages wirelessly for intelligent decisions about light levels required. Can be customised to provide an interface with building management systems and vital building management information via a web based portal - as Whitecroft Lighting ORGANIC RESPONSE®.