Product Description

HC005S/BT is a Bluetooth built-in microwave motion sensor with ON/OFF control. It is designed for professional lighting manufactures who would like to incorporate wireless control into their luminaires. HC005S/BT is suitable for any typical indoor applications such as office, classroom, car park, warehouse and other commercial/industrial areas. With Bluetooth wireless mesh networking, it makes communication much easier without any hardwiring, which eventually adds values to luminaires and saves costs for projects. Meanwhile, simple device setup and commissioning can be done via Lena Lighting Clue app.
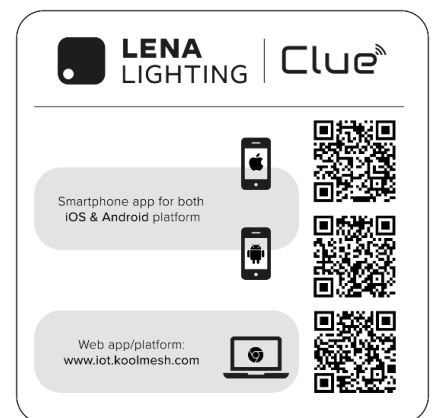
App Features

- Quick setup mode & advanced setup mode
- Floorplan feature to simplify project planning
- Web app/platform for dedicated project management
- Koolmesh Pro iPad version for on-site configuration
- Grouping luminaires via mesh network
- Scenes
- Detailed motion sensor settings
- Dusk/Dawn photocell (Twilight function)
- Schedule to run scenes based on time and date
- Astro timer (sunrise and sunset)
- Staircase function (primary & secondary)
- Compatible with EnOcean BLE switches
- Internet-of-Things (IoT) featured
- Device firmware update over-the-air (OTA)
- Device social relations check
- Bulk commissioning (copy and paste settings)
- Power-on status (memory against power loss)
- Offline commissioning
- Different permission levels via authority management
- Network sharing via QR code or keycode
- Remote control via gateway support HBGW01
- Interoperability with other Bluetooth product portfolio
- Continuous development in progress...

Hardware Features

- Photocell Advance
- ON/OFF control with load ratings of:
  - 300VA (capacitive)
  - 400W (resistive)
- Compact design
- Zero crossing detection circuit to reduce in-rush current and prolong relay lifetime
- Loop-in and loop-out terminals for effient installation
- 5-year warranty

LENA LIGHTING | Clue

Smartphone app for both iOS & Android platform

Web app/platform: www.iot.koolmesh.com

❋ EnOcean
Self-powered IoT

Fully support EnOcean self-powered switch module PTM215B (HBES01/W & HBES01/B)

Technical Specification

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	**8** Bluetooth® 5.0 SIG Mesh

Sensor Data	
Sensor principle	High Frequency (microwave)
Operation frequency	5.8GHz+/-75MHz
Transmission power	<0.2mW
Detection range	Max installation height : 6m Max detection range : 10m (diameter)
Detection angle	30°~150°

Environment	
Operation temperature	Ta: -20₀C ~ +50₀C
Case temperature(MAX.)	Tc:+75°
IP rating	IP20

Input & Output Characteristics	
Operating voltage	220~240VAC 50/60Hz
Stand-by power	<1W
Load ratings	300VA(capacitive),400W(resistive)
Warming-up	20s

Safety & EMC	
EMC standard (EMC)	EN55015, EN61000, EN61547
Safety standard (LVD)	EN60669-1/2-1 AS/NZS 60669-1/-2-1
Radio Equipment (RED)	EN300400, EN301489-1/-3 EN301489-17, EN62479, EN300328
Certiﬂcation	Semko,CB, CE , EMC, RED, RCM

* The detection range is heavily inﬂuenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.
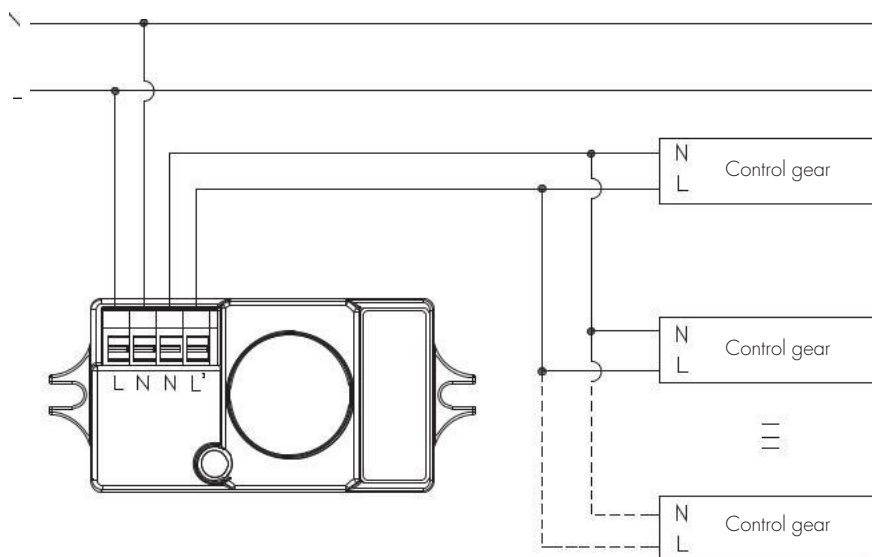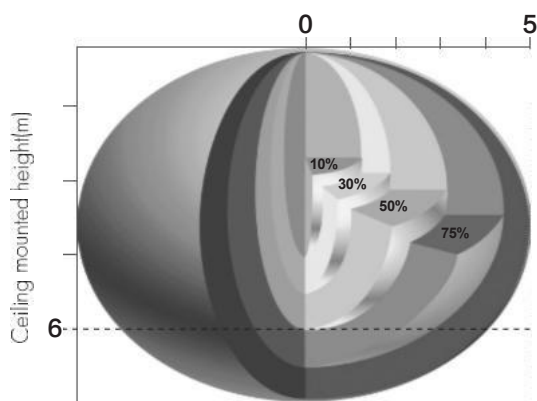
Mechanical Structure & Dimensions
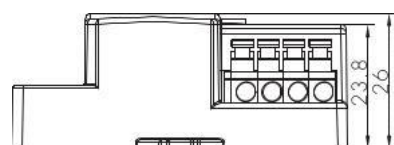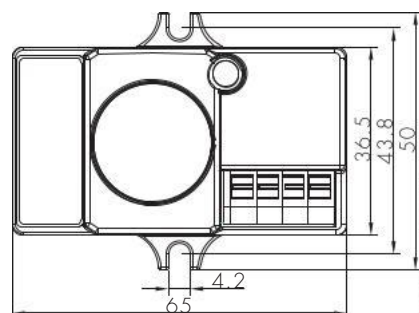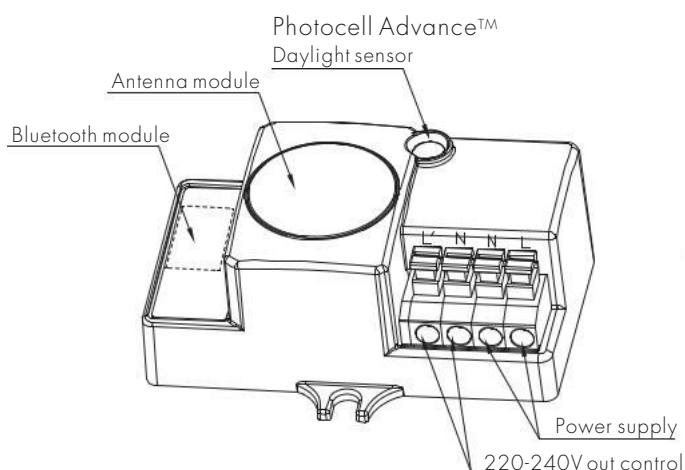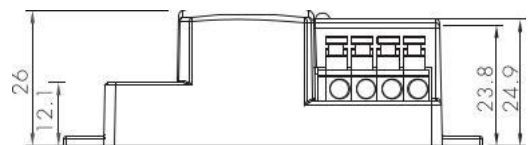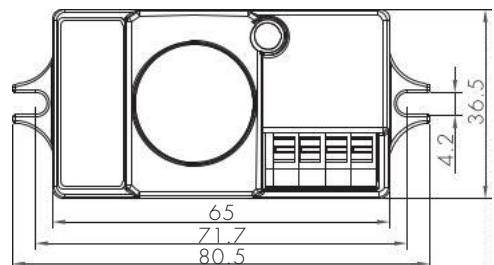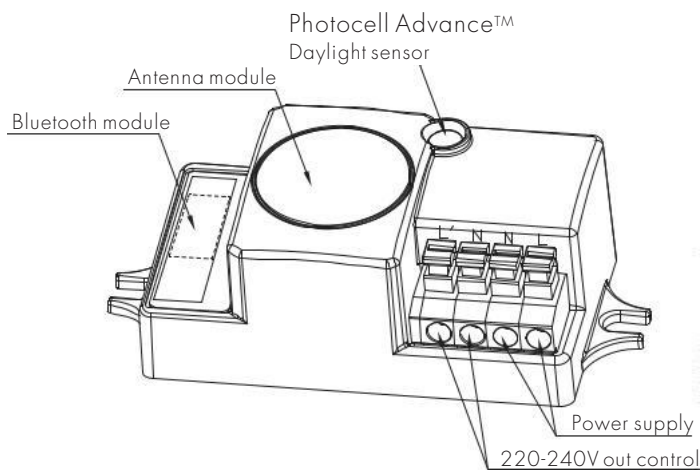
Cable preparation

0,75~1,5 mm

8 mm

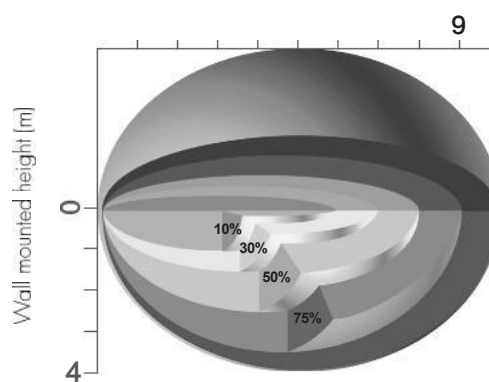To make or release a wire from the terminal,
Use a screwdriver to press the button.

Wiring Diagram

N
L Control gear

N
L Control gear

N
L Control gear

L N N L'

Detection Pattern

0   5

10%
30%
50%
75%

6

Ceiling mounted height(m)

Ceiling mounted detection pattern (m)

9

10%
30%
50%
75%

0

4

Wall mounted height [m]

Wall mounted detection pattern (m)

For more information contact iot@lenalighting.pl