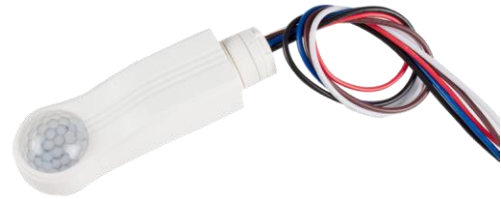


























Product Description

HC049V/BT is a Bluetooth 0/1-10V high-bay PIR motion sensor, with capability of up to 15m installation height. HC049V/BT has a daylight sensor built-in, and is specifically designed for mounting onto a batten style luminaire. It is also designed for professional lighting manufactures who would like to incorporate wireless control into their luminaires. HC049V/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
-  Web app/platform for project deployment & data analysis
-  Koolmesh Pro app on iPad for on-site configuration Floorplan feature to simplify project planning
-  One-key device replacement
-  Device social relations check
-  Staircase function (primary & secondary) Remote control via gateway support HBGW01 Heat map
-  Dynamic daylight harvest auto-adaptation
-  Grouping luminaires via mesh network
-  Scenes
-  Dusk/Dawn photocell (Twilight function)
-  Tri-level control
-  Daylight harvest
-  Detailed motion sensor settings
-  Schedule
-  Astro timer (sunrise and sunset)
-  Power-on status (memory against power loss)
-  Offline commissioning
-  Bulk commissioning (copy and paste settings)
-  Different permission levels via authority management
-  Network sharing via QR code or keycode


-  Compatible with EnOcean BLE switches
-  Interoperability with Bluetooth product portfolio Internet-of-Things (IoT) featured
-  Device firmware update over-the-air (OTA)
-  Continuous development in progress...


Hardware Features


-  IP65
-  Fixing washers accessory
-  High-bay (up to 15m height)
-  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 Specifications

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

| Input & Output Characteristics | |
|--------------------------------|---|
| Operating voltage | 220 ~ 240VAC50/60Hz |
| Stand-by power | < 1 W |
| Load ratings | 400VA (capacitive) 800 W (resistive) |
| Warming-up | 30s |

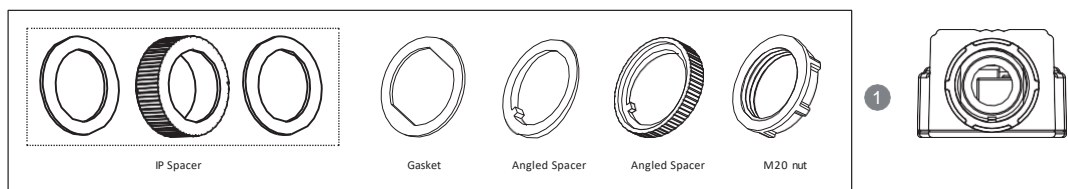
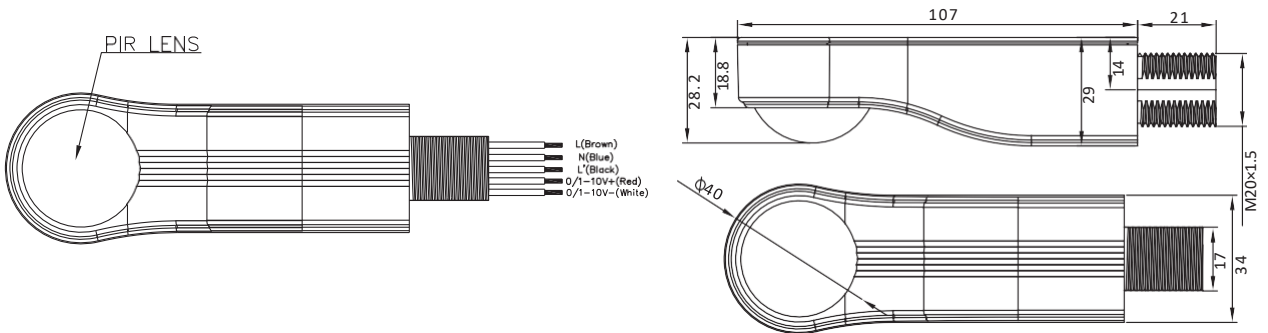
| Environment | |
|-----------------------|-------------------|
| Operation temperature | Ta: -20°C ~ +50°C |
| IP rating | IP65 |

| Sensor Data | |
|------------------|---|
| Sensor principle | PIR detection |
| Detection range* | Max installation height : 15m (forklift) 12m (single person) Max detection range : 16m (diameter) |
| Detection angle | 360° |

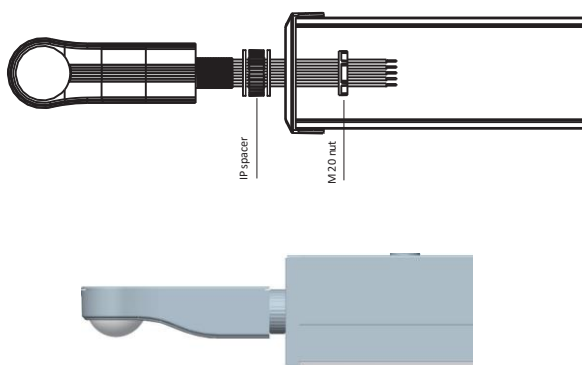
* The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

| Safety & EMC | |
|-----------------------|--------------------------------------|
| EMC standard (EMC) | EN55015, EN61547 EN61000-3-2/-3-3 |
| Safety standard (LVD) | EN61347-1, EN61347-2-11 |
| RED | EN300328, EN301489-1 EN301489-17 |
| Certification | ENEC, CE, EMC, LVD, RCM |

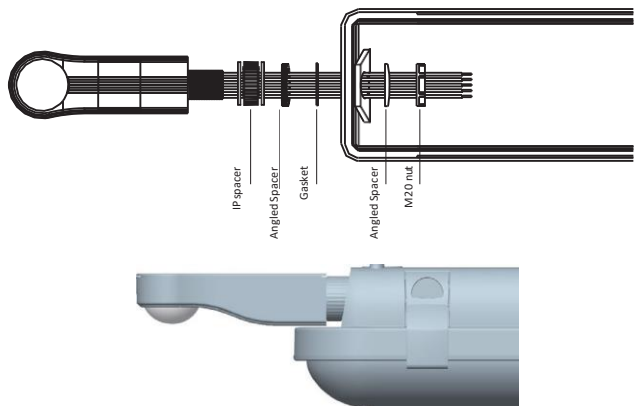
Mechanical Structure & Dimensions



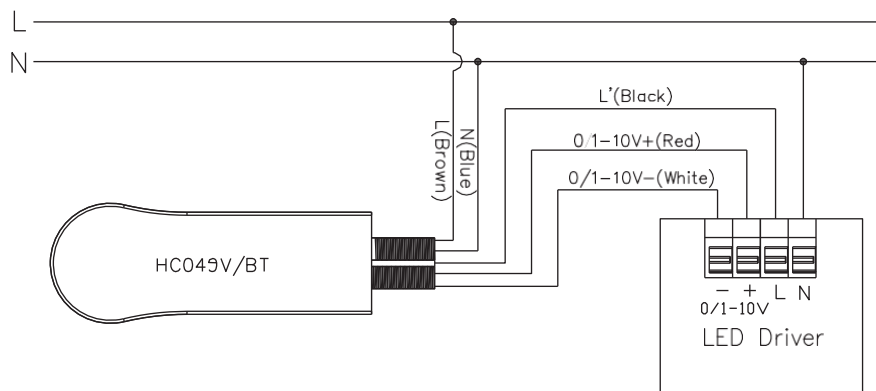
Typical Installation 1



Typical Installation 2

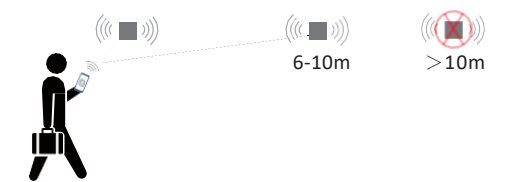


Wiring Diagram



Placement Guide and Typical Range

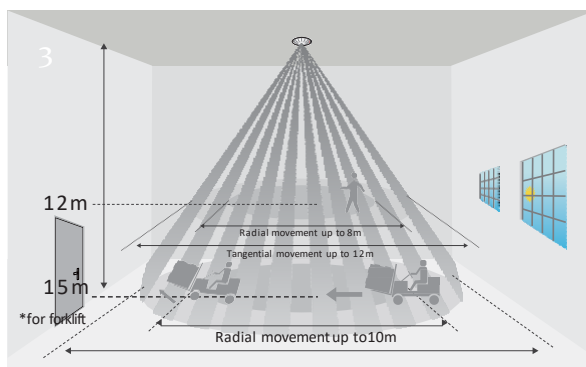
Smart Phone to Device Range



The smart device with the App installed will have a typical range of 10m, but varies from device to device. During commissioning, the installer will need to be in range of the devices when searching for devices to add to the network.

Once the devices have been added to the network via the App, the devices will start communicating within the wireless mesh. This means that once the network is complete, all devices are accessible from the smart device when in a 20m range of a single point.

Detection Pattern



For more information, contact iot@lenalighting.pl