DALI PIR Motion Sensor with HRC-11 Remote Control

WSEL381 (HCD049)（High-bay）
DALI/DALI-2 Bolt-on/Batten-fit PIR Sensor

LENA LIGHTING | Clue

CE | emc | ⌖ | IP65

Product Description

HCD049 is a DALI high-bay PIR motion sensor, with capability of up to 15m installation height. HCD049 has a daylight sensor built-in, and is specifically designed for mounting onto a batten style luminaire. All sensor parameters can be programmed through remote controller HRC-11.

Hardware Features

- 30mA DALI Broadcast output
- IP65
- Fixing washers accessory
- High-bay (up to 15m height)
- 5-year warranty, designed for long lifetime up to 50,000 hours
- Daylight Harvest
- Remote controllable

Technical Specifications

Input Characteristics

Model No.	HCD049
Operating voltage	220 ~ 240VAC 50/60Hz
Stand-by power	<1W
Output	30mA, 12VDC (max. 15 devices)
Warming-up	30s

Sensor Data

Model No.	HCD049
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 and EMC

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

Environment

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

Mechanical Structure & Dimensions

(unit:mm)

PIR Lens

600

L (Brown)
N (Blue)
DA(White)
DA(White)

107   21

28.2   18.8   29   14

M20×1.5

Φ40   34   17

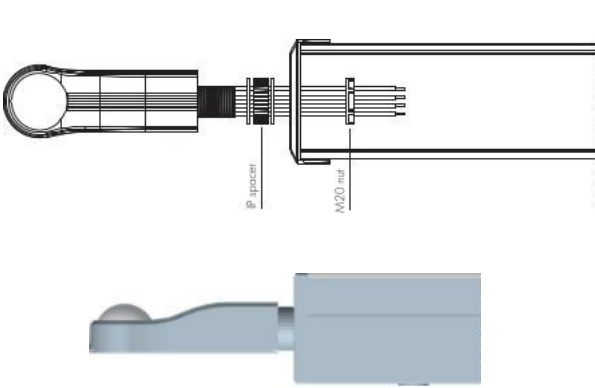IP Spacer   Gasket   Angled Spacer   Angled Spacer   M20 nut

1

2

Typical Installation 1

IP spacer   M20 nut

Typical Installation 2

IP spacer   Angled Spacer   Gasket   Angled Spacer   M20 nut

Wiring Diagram

L

N

DA (White)

DA (White)

L (Brown)

N (Blue)

DA DA L N

LED Driver

Ver. A0

12m

15m
*for forklift

Radial movement up to 8m
Tangential movement up to 12m
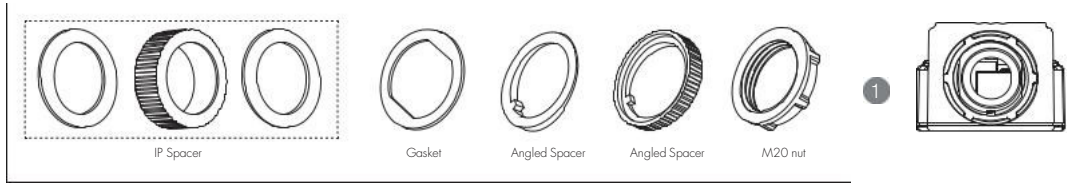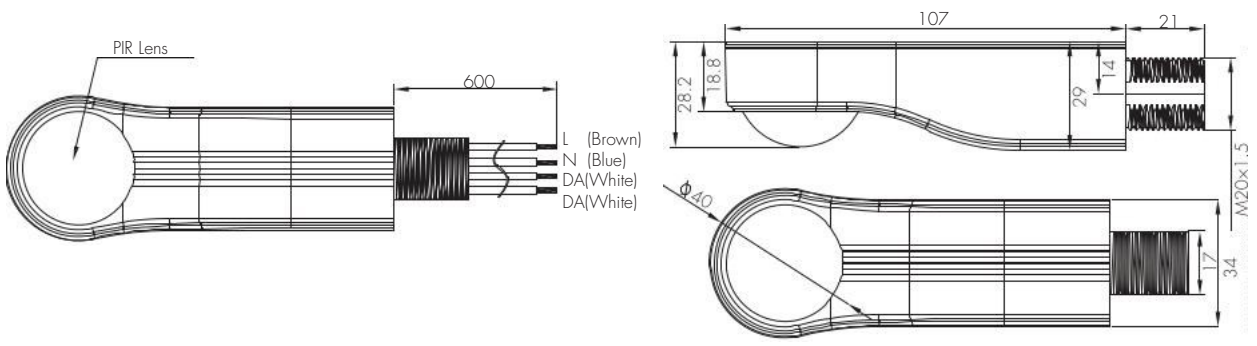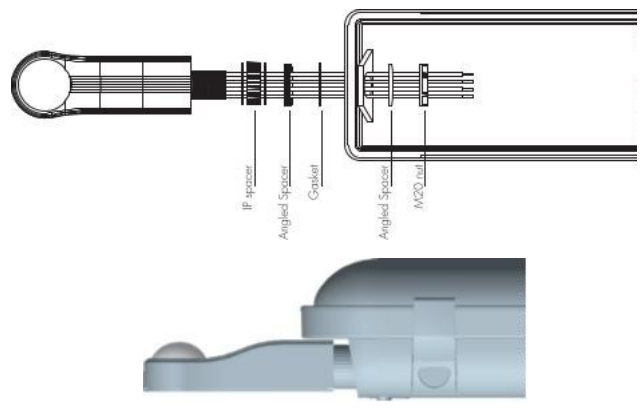
Radial movement up to10m
Tangential movement up to 16m
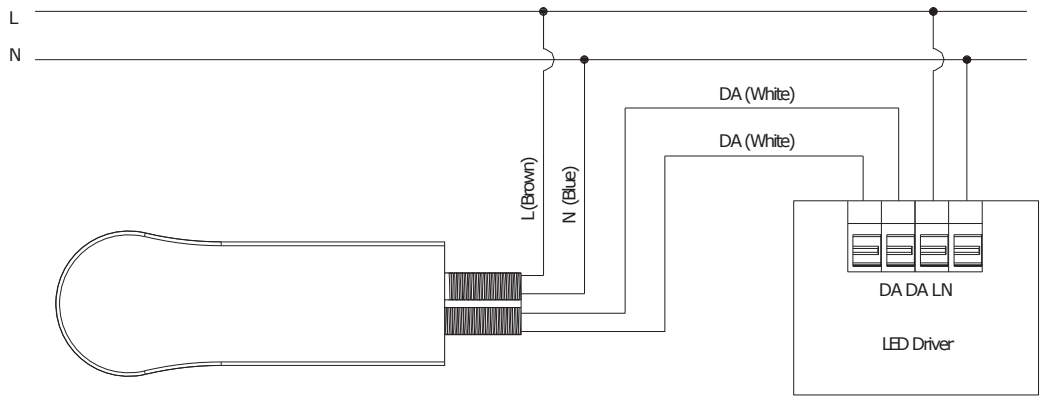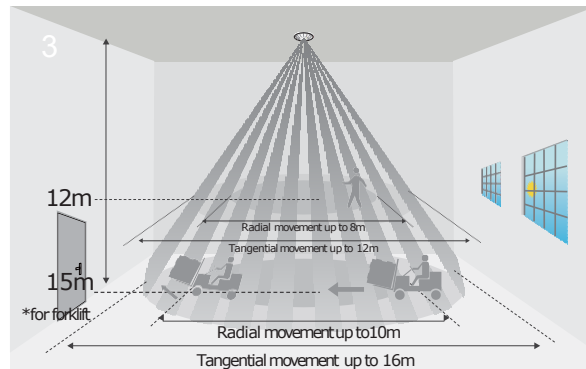
*The detection patterns are based upon 5km/h movement speed.

Additional Information / Documents

1. To learn more about detailed product features/functions, please refer to
   www.hytronik.com/download ->knowledge ->Introduction of App Scenes and Product Functions

2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to
   www.hytronik.com/download ->knowledge ->Bluetooth Products -Precautions for Product Installation and Operation

3. Regarding precautions for PIR sensor installation and operation, please kindly refer to
   www.hytronik.com/download ->knowledge ->PIR Sensors -Precautions for Product Installation and Operation

4. Data sheet is subject to change without notice. Please always refer to the most recent release on
   www.hytronik.com/products/bluetooth technology ->Bluetooth Sensors

5. Regarding Hytronik standard guarantee policy, please refer to
   www.hytronik.com/download->knowledge ->Hytronik Standard Guarantee Policy