DNS360HB-CS-PIR-Zigbee

Multifunction Sensor

Specification Sheet

Sensors > High Bay



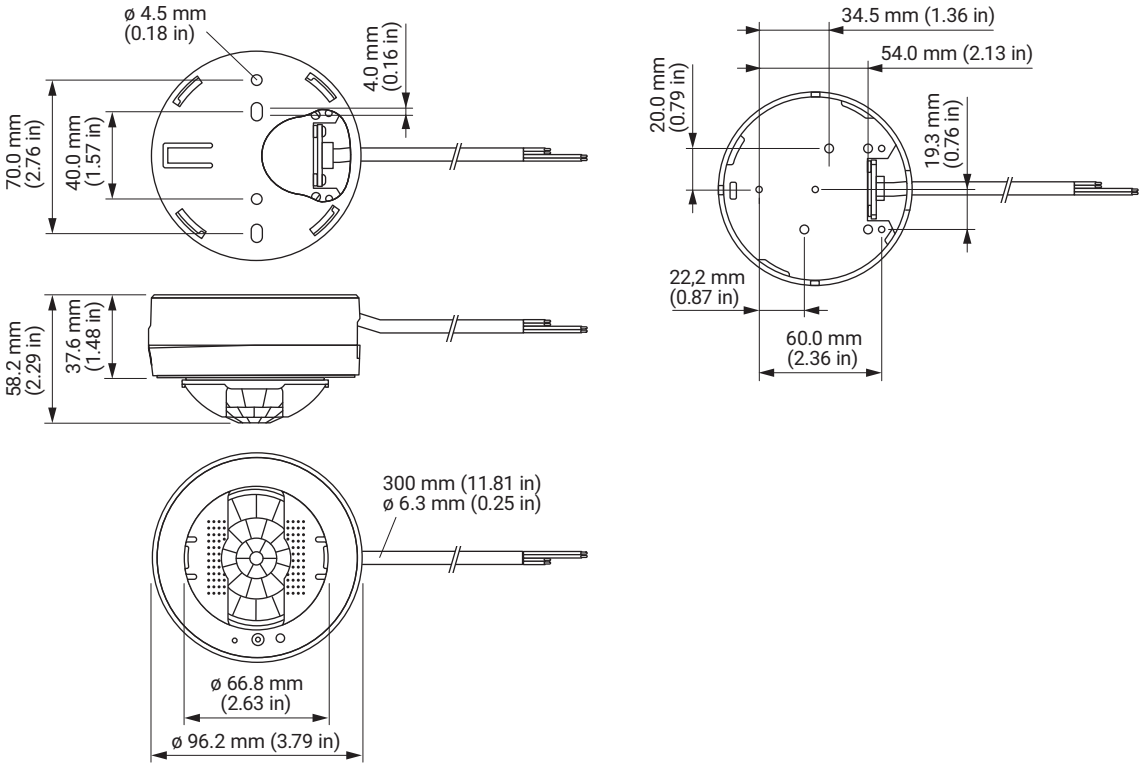
Surface-mounted 360° Zigbee ceiling sensor

The Dynalite DNS360MB-CR-PIR-Zigbee is a wall or ceiling surface-mounted 360° multifunction sensor that combines PIR motion detection and lux level detection with infrared remote reception. This mains-powered sensor is suitable for up to 12m heights and connects wirelessly to the Dynalite system via the PDZG-E Zigbee gateway.

Key Features

- **Motion detection feature** – Adjusts lighting in response the presence or absence of motion.
- **Removable lens shield** – Masks the detection area to prevent nuisance detection from adjacent doorways or corridors.
- **Ambient light level regulation** – In applications where precise, consistent lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.
- **Infrared receive capability** – Inbuilt IR sensor enables control from a compatible hand-held RC5 IR remote.
- **Wireless operation** – Connects seamlessly to the Dynalite system via 2.4GHz Zigbee mesh networking.
- **Mains powered** – Easy installation and wiring.
- **DALI-2 output** – Control up to 10 compatible DALI-2 luminaires.

Dimensions



Specifications

Electrical

Supply Voltage	220-240 VAC 50/60Hz or 186-250 VDC
Supply Current	≤10 mA
Electrical Protection	2 kV (line to neutral) 4 kV (line/neutral to earth)
IEC Overvoltage Category	II

Motion Detection (PIR)

Sensor	Passive infrared
NOTE:	PIR detection requires a temperature difference between the subject and background surfaces of at least 4°C (7.2°F)

Light Detection (PE)

Lux Range	1-1,500 lux

Control

Supported Protocols	Zigbee Bluetooth DALI-2
Control Channel Outputs	1 x DALI-2 (Compatible with DALI-2 certified drivers with DiiA DALI part 251, 252, and 253)
User Controls	Infrared (RC5 IR remote control) 1 x hardware reset switch
Indicators	1 x motion LED (red) 1 x vacant LED (yellow), 1 x status LED (green)

Wireless Connectivity

Protocols	BLE Zigbee
Frequency	2.4GHz (IEEE 802.15.4)
Antenna Type	Internal
Range	**Zigbee:** 50 m (line of sight) **Bluetooth:** 15 m (line of sight)
Notes	Zigbee range is sensor-to-sensor. Range between sensors and wireless luminaires or other devices may vary, and should be tested before final design-in and installation.

Physical

Dimensions	96.2 x 58.2 mm (3.79 x 2.29 in)
Net Weight	206 g (0.45 lb)
Construction	Plastic enclosure
Colour	White
DALI Terminals	DA+ (Black), DA- (Gray)
Supply Terminals	Line (Brown), Neutral (Blue)
Terminal Conductor Size	Tin stripped 0.75 mm² (#18 AWG)
Flylead Length	0.3m cable **Type:** H05RN-F 60245 IEC 57(YZW)

Environment

Operating Temperature	-40° to 65°C ambient (-40° to 149°F)
Storage/Transport Temperature	-40° to 85°C ambient (-40° to 185°F)
Relative Humidity	20-85% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only

Compliance

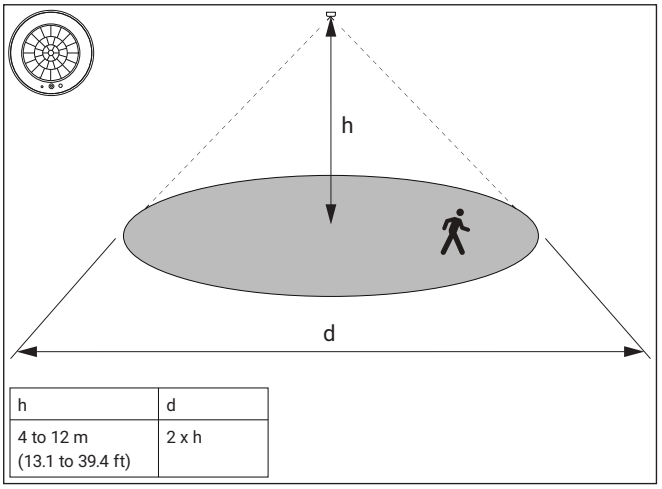
Certifications	CE, CB, RCM, UKCA, ENEC, DALI-2
Sustainability	RoHS, WEEE
IP Rating	IP66

Control Channel Ratings

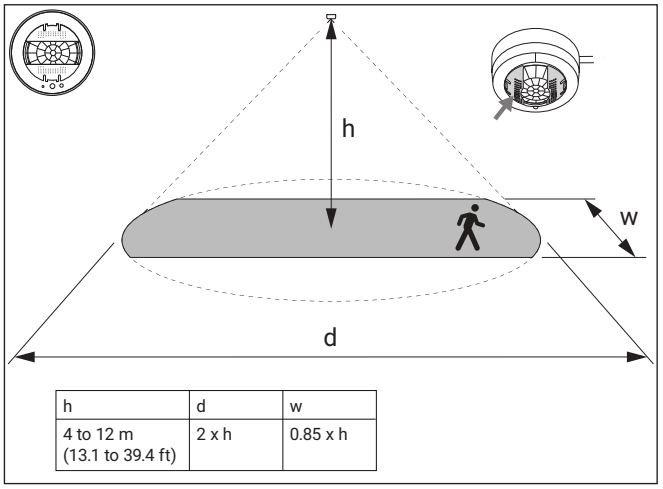
DALI	
Output Voltage	16 VDC
Guaranteed Current	20 mA
Maximum Current	30 mA **Max external DALI PS bus current:** 250 mA
Maximum Drivers/Channel	10
Insulation	Reinforced (If any connected driver or power supply has basic insulation, then DALI bus insulation will be basic only.)

Note: Overload protection DA+ to DA-: 500 V (1.2/50 µs per IEC 61000-4-5)

Detection Area



h	d
4 to 12 m (13.1 to 39.4 ft)	2 x h



h	d	w
4 to 12 m (13.1 to 39.4 ft)	2 x h	0.85 x h

Ordering Codes

Product		12NC
DNS360HB-CS-PIR-Zigbee	White	TBA

Policies and Notices

Specific Data Notice

TBA

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