DNS360HB-CS-PIR-ZGBMNS

Multifunction Sensor

Specification Sheet

Sensors > High Bay



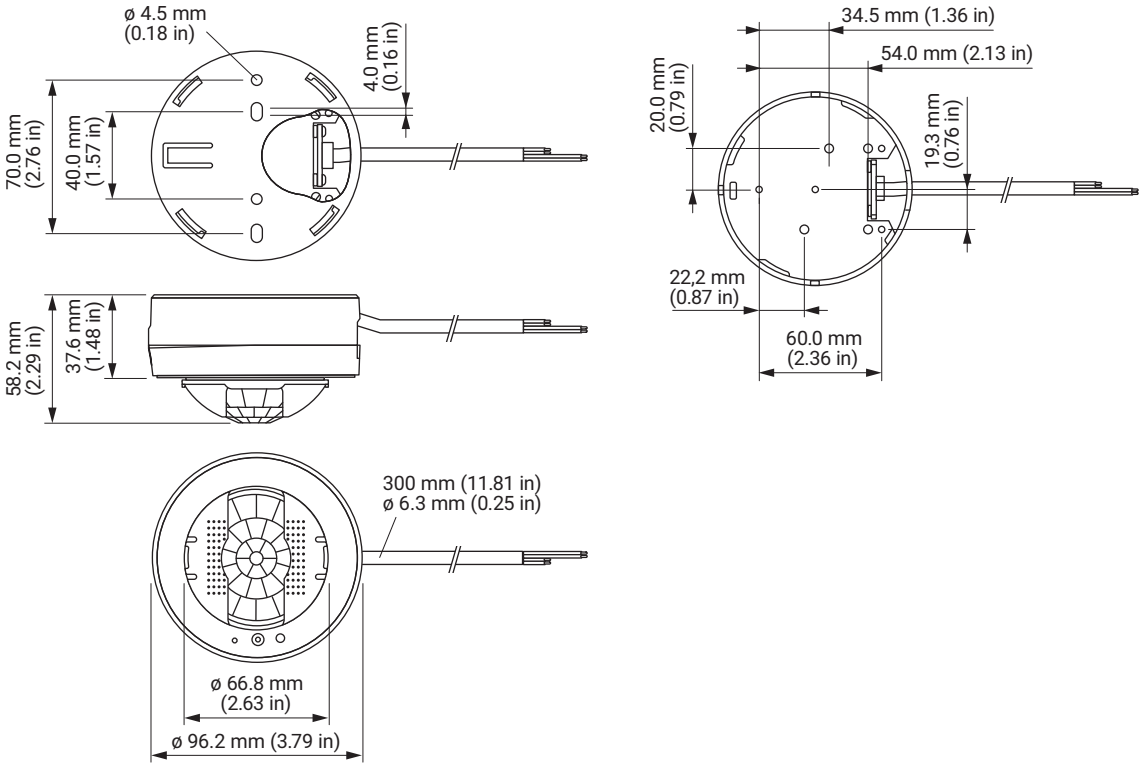
Surface-mounted 360° Zigbee ceiling sensor

The Dynalite DNS360MB-CR-PIR-ZGBMNS 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 (#24 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

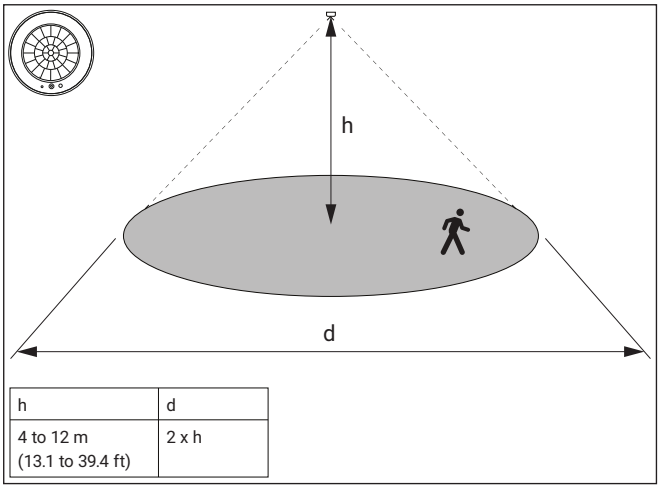
Certifications	CE, CB, RCM, UKCA, ENEC, DALI-2
Sustainability	RoHS, WEEE
IP Rating	IP66

Control Channel Ratings

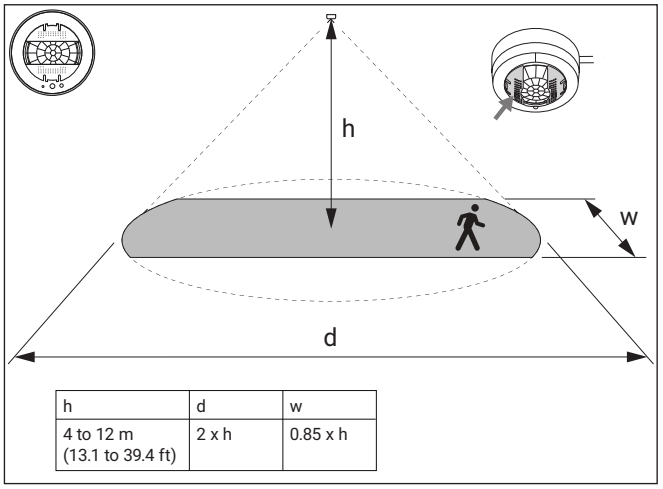
DALI	
Output Voltage	16 VDC
Guaranteed Current	20 mA
Maximum Current	30 mA **Max external DALI PS bus current:** 250 mA
Maximum Drivers/Channel	10
Insulation	Reinforced (If any connected driver or power supply has basic insulation, then DALI bus insulation will be basic only.)

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-ZGBMNS	White	913703274409

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the sensors as specified in this product specification sheet (the **"Sensor"**) that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at https://www.signify.com/global/resources/policies-announcements (the **"Generic Data Notice"**) by providing additional and/or more specific details specific to this Sensor.

Terms starting with a capital in this Specific Data Notice will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a Signify professional lighting system in combination with a Dynalite Gateway with either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the Sensor can generate the Data as specified below (The type and volume and format of Product Data that is generated depends on the product and/or software configuration and subscription to the relevant software service):

- Operational Data: energy consumption, failures (of light points and driver), burning hours (read from the driver as per DALI-2 protocol).
- Sensor Data: occupancy state for the last minute as per Zigbee wireless communication protocol.

The Data generated in this combination is communicated via the network to the gateway and is stored on the gateway. If configured to do so, the gateway can forward the Data to Dynalite Cloud or to Dynalite System Manager. For applicable retention period and means of access to Data that is Readily Available Data, please refer to the Dynalite Cloud software specification sheet. Data cannot be accessed directly from the Sensor (In typical use, once the connected product has been commissioned, data generated on the device is not directly accessible). Data can be accessed from the Gateway using Dynalite System Builder or directly from any of the APIs of the Gateway. The Gateway will persist the Data for 28 days on a rolling basis.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.

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