

DUS90WHB-D

Multifunction DALI Sensor



Specification Sheet

Sensors > Directional



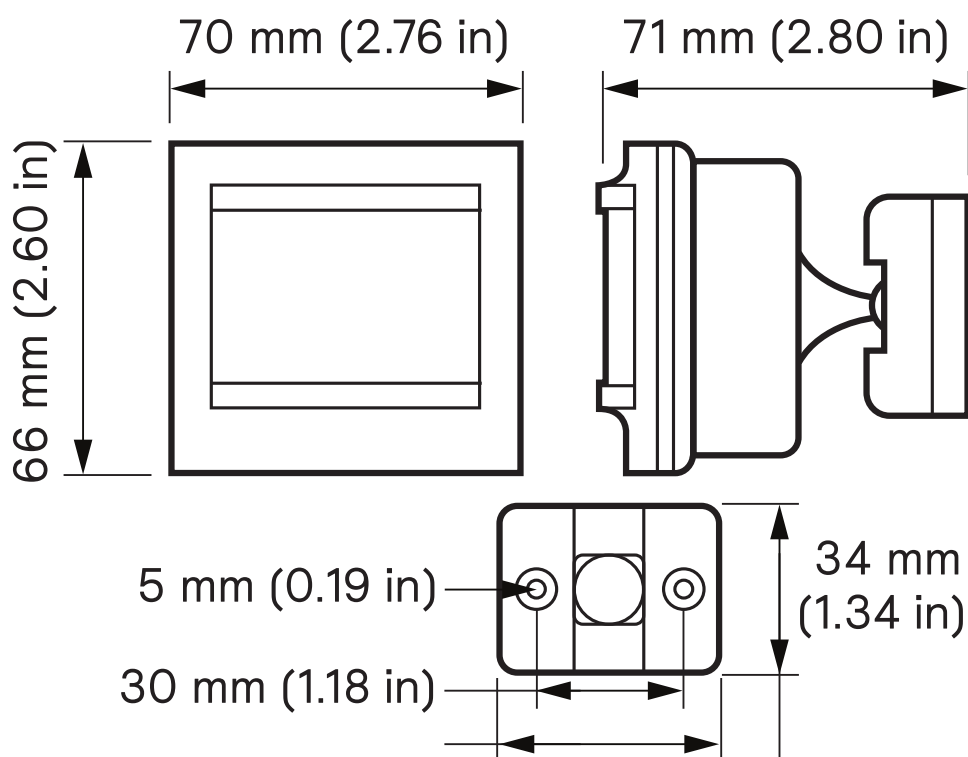
Wide-angle high bay DALI network sensor

The Dynalite DUS90WHB-D is a 90° multifunction sensor that combines motion detection (PIR) and ambient light level detection (PE) in one device. The sensor uses the DALI protocol for power and communications to a network control system, eliminating the need for additional network field wiring, and is suitable for wide-angle general-purpose coverage.

Key Features

- **DALI device** – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller
- **Powered directly by DALI network** – Eliminates the need for additional network field wiring.
- **Motion detection feature** – Detects the presence or absence of motion and triggers a programmed action.
- **Ambient light level regulation** – In applications where precise, even lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.
- **Daylight harvesting** – When used in conjunction with a networked open loop daylight sensor.
- **Infrared receive capability** – Enables sign-in identification to the networked system.
- **Corridor hold** – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.
- **Targeted positioning** – Directional wall-mounting block allows sensors to be easily mounted and directed at the required area.

Dimensions



Specifications

Electrical	
Supply Type	DALI / ELV
Supply Voltage	9.5-22.5 VDC
Supply Current	9 mA
DALI Insulation	Basic
IEC Overvoltage Category	III

Motion Detection (PIR)	
Sensor	Dual element pyroelectric
Max Detection Range	18 m (59 ft) Typical range at ≤25°C (77°F) Range reduced at higher temperatures
Scan Beam Angle	90°

Light Detection (PE)	
Lux Range	5-10,000 lux

Control	
Communication Ports	1 x DALI
User Controls	Infrared (RC5 IR remote control) 1 x service switch
Indicators	1 x motion LED (red)

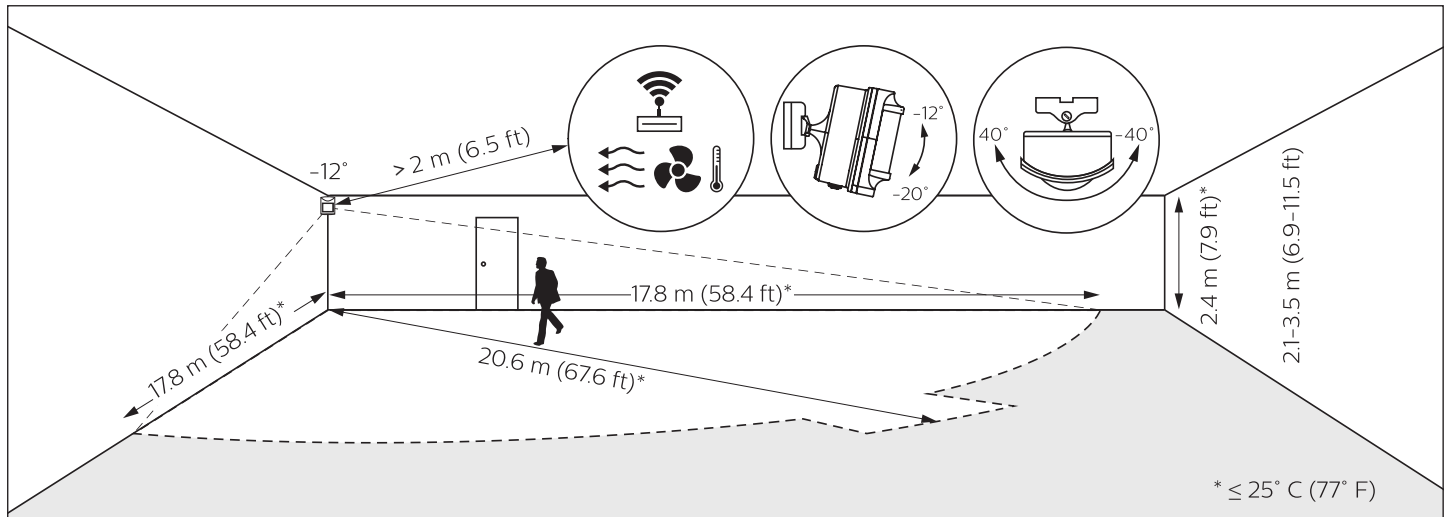
Physical	
Dimensions	66 x 70 x 71 mm (2.60 x 2.76 x 2.80 in)
Packed Weight	0.116 kg (0.26 lb)
Construction	Polycarbonate enclosure
Colour	RAL9010 (White)
Serial Ports	1 x 2-way screw terminal
Serial Port Conductor Size	≤0.75 mm² (#18+ AWG) (Flylead included)

Environment	
Operating Temperature	-5° to 50°C ambient (23° to 122°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II

Compliance	
Certifications	CE, RCM, UKCA, RoHS
IP Rating	IP40 (When installed per manufacturer instructions)



Detection Area



Ordering Codes

Product	12NC
DUS90WHB-D	913703015509

Accessory		12NC
IRT9090/01	Commissioning & testing RC5 IR remote control	913700359103

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 Data that is generated depends on the product and/or software configuration and subscription to the relevant software service):

- Operational Data: Lighting control commands based on sensor events as configured in this sensor via the RS-485 DyNet network
- Sensor Data: Motion event count, lux levels reporting via the RS-485 DyNet network.

The Data generated in this combination is communicated via the DALI Controller and 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.