

DUS90CS

Multifunction Sensor



Specification Sheet

Sensors > Directional



Wall/ceiling mount 90° multifunction sensor

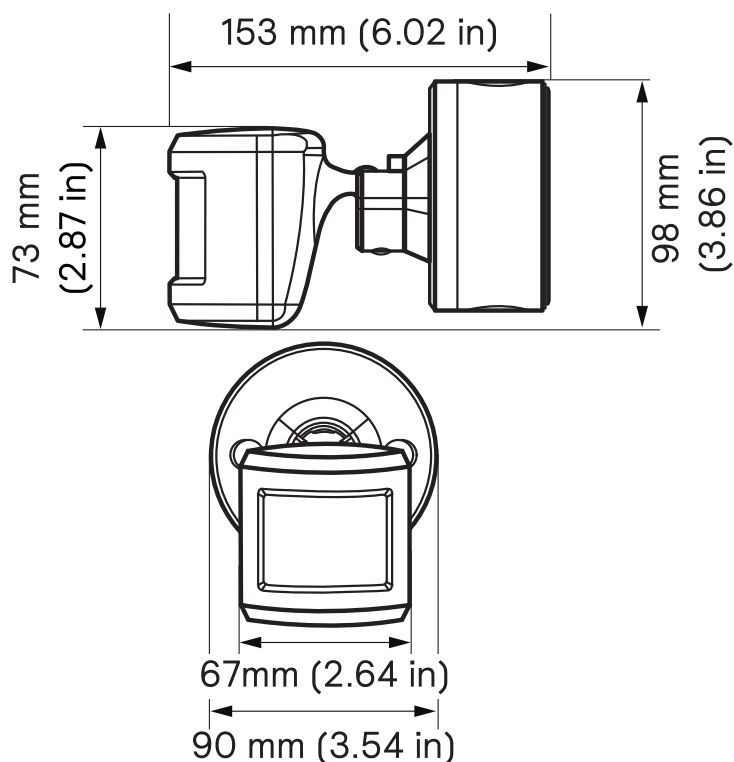
The Dynalite DUS90CS is a wall/ceiling-mountable multifunction sensor that combines motion detection (PIR), infrared remote control reception (IR), and ambient light level detection (PE) into one device for applications such as offices, lecture theaters, and residential.

Manufactured with an IP54 rating, the DUS90CS is resistant to dust and splashing, making it suitable for use in both indoor and sheltered outdoor areas.

Key Features

- **Motion detection** – Detects the presence or absence of motion and adjusts lights accordingly. The sensor has a 90° scan pattern with flexible angle adjustment.
- **Ambient light level regulation** – In applications where precise, even lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.
- **Infrared receive capability** – Inbuilt IR sensor lets you manually adjust light levels using a compatible hand-held RC5 IR remote.
- **Daylight harvesting mode** – Delivers automatic energy savings.
- **Multiple mounting options** – Surface mount (wall/ceiling), or partially recessed (ceiling only) using the supplied junction box or butterfly clips.
- **IP54 rating** – dust- and splash-resistant housing supports a variety of indoor and outdoor applications.

Dimensions



Specifications

Electrical	
Supply Type	DyNet
Supply Voltage	12/24 VDC
Supply Current	20 mA max
IEC Overvoltage Category	II

Motion Detection (PIR)	
Sensor	Dual element pyroelectric
Max Detection Range	20.6 m (67.6 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 RS-485
Supported Protocols	DyNet
User Controls	Infrared (RC5 IR remote control, 6m range)
Indicators	1 x motion LED (red)

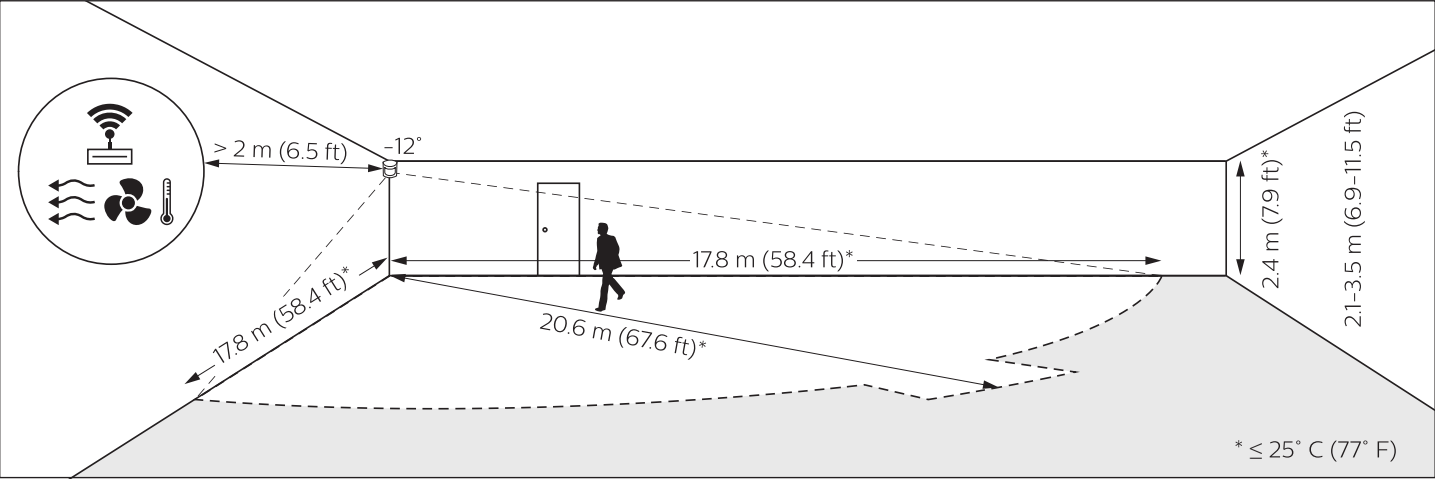
Physical	
Dimensions	98 x 90 x 153 mm (3.86 x 3.54 x 6.02 in)
Packed Weight	0.26 kg (0.57 lb)
Construction	Polycarbonate enclosure
Colour	RAL9010 (White)
Serial Ports	1 x screw terminal
Serial Port Conductor Size	0.3-2.5 mm² (#22-12 AWG)

Environment	
Operating Temperature	-20° to 45°C ambient (-4° to 113°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, UL/cUL, FCC, ISED, UKCA
Sustainability	RoHS
IP Rating	IP54 (When installed per manufacturer instructions)



Detection Area



Ordering Codes

Product	12NC
DUS90CS	913703244209

Accessory		12NC
D-DUS-DINGUS-RJ12-QTY10	Dual RJ12 connector (pack of 10)	913703254409
D-DUS-DINGUS-RJ45-QTY10	Dual RJ45 connector (pack of 10)	913703254609
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 Product 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 level reporting via the RS-485 DyNet network.

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.