

DUS90WHB-D

Multifunction DALI Sensor



Specification Sheet

Sensors > Directional



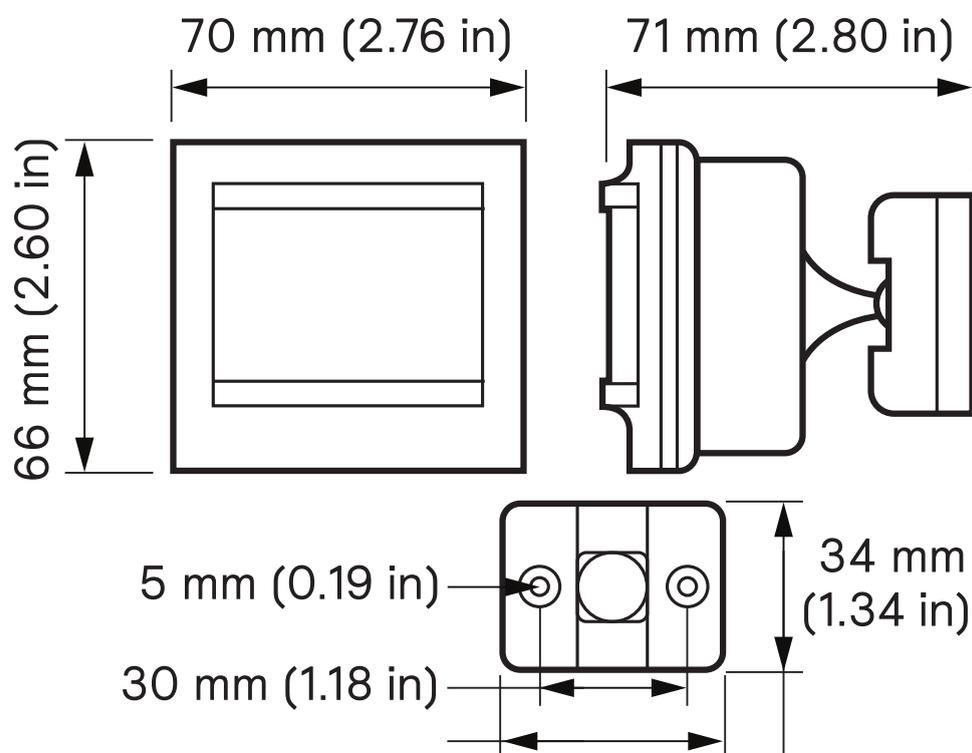
Wide-angle high bay DALI network sensor

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 Dyalite 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 $\leq 25^{\circ}\text{C}$ (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)

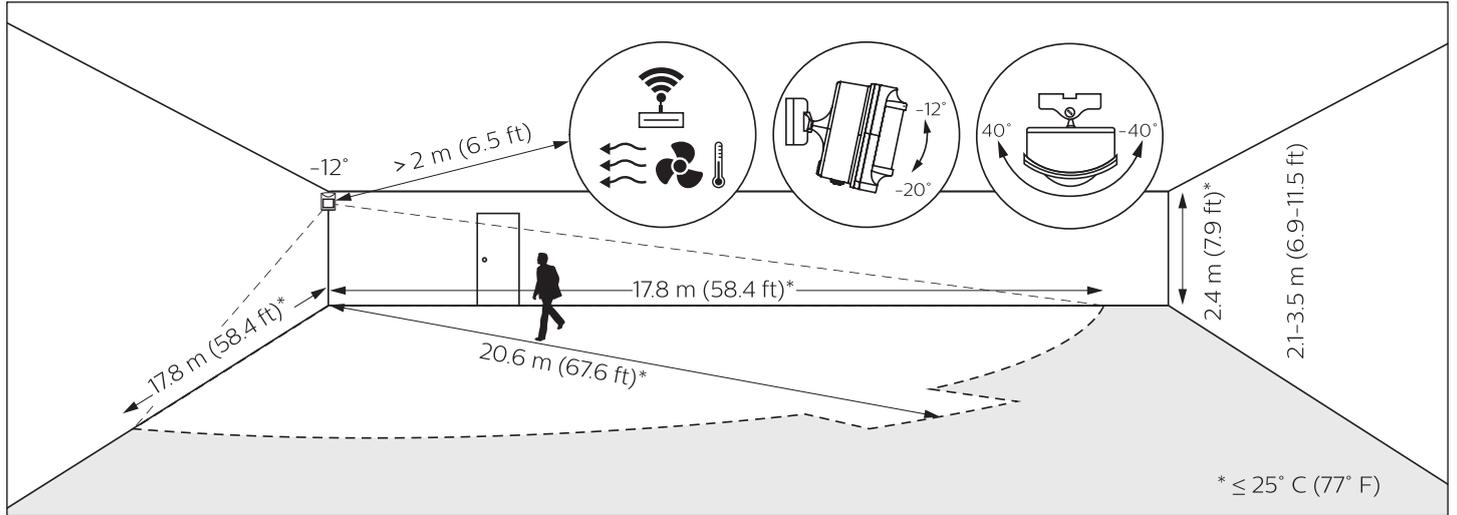
Physical	
Dimensions	66 x 70 x 71 mm (2.60 x 2.76 x 2.80 in)
Packed Weight	0.116 kg (0.26 lb)
Construction	Polycarbonate enclosure
Colour	RAL9010 (White)
Serial Ports	1 x 2-way screw terminal
Serial Port Conductor Size	≤ 0.75 mm ² (#18+ AWG) (Flylead included)

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	$\leq 90\%$ 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