PHILIPS
dynalite

Sensors

DUS804CS-UP
Multifunction Sensor

Surface mount ceiling sensor with ultrasonic capability

The Philips Dynalite DUS804CS-UP is a surface mountable 360 degree multifunction sensor that combines ultrasonic (UP), motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, industrial buildings and secure areas of public buildings.

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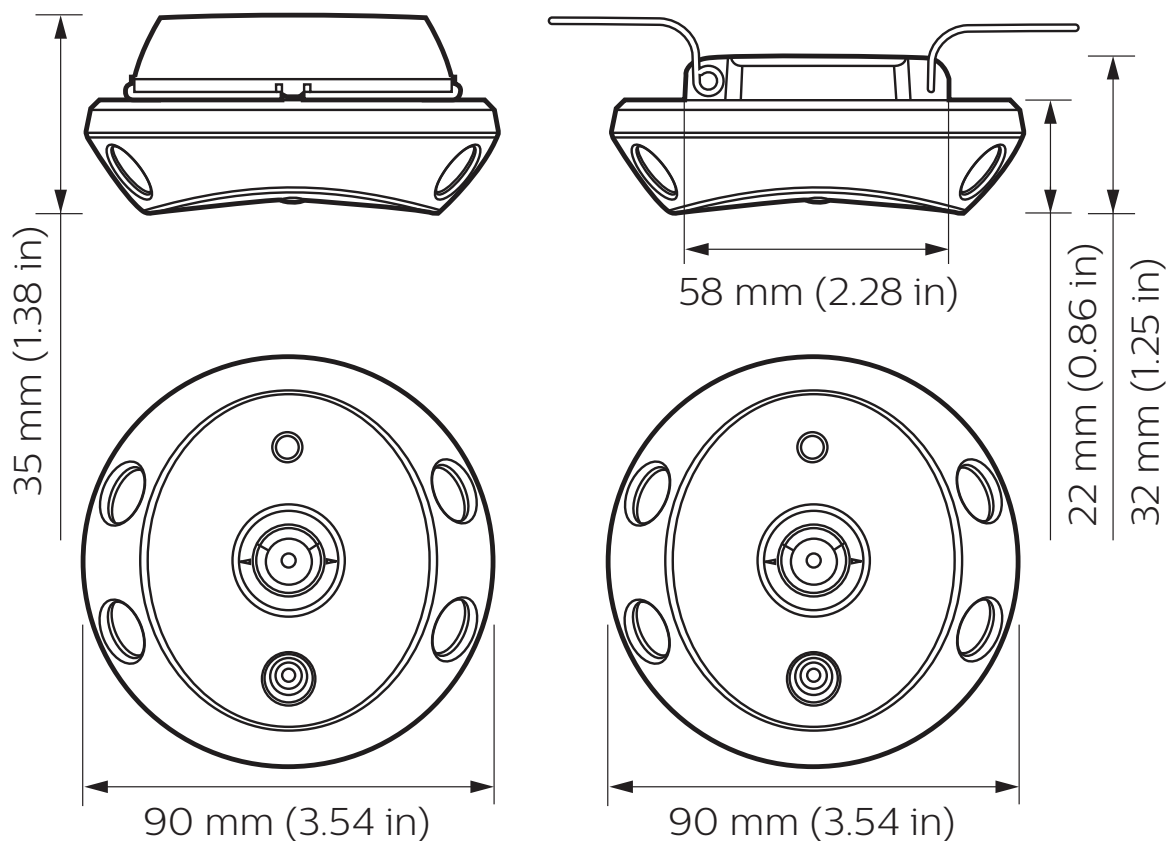
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DUS804CS-UP
Surface mount ceiling sensor with ultrasonic capability

- **Motion detection feature** – Detection of motion within scanned area triggers a programmed lighting action. Ultrasonic technology enables motion detection behind fixed objects.

- **Ambient light level regulation** – In applications where it is critical to maintain precise light levels, the PE function reads ambient levels and adjusts artificial light accordingly.

- **Infrared receive capability** – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor of the DUS804CS-UP.

- **Daylight harvesting mode** – Delivers automatic energy savings.

- **Corridor hold** – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions

35 mm (1.38 in)

58 mm (2.28 in)

22 mm (0.86 in)

32 mm (1.25 in)

90 mm (3.54 in)

90 mm (3.54 in)

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

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Multifunction Sensor

Electrical

Supply Type	DyNet
Supply Voltage	12 VDC
Supply Current	80 mA
IEC Overvoltage Category	III

Motion Detection (Ultrasonic)

Transducer Pairs	2
Operating Frequency	32 KHz
Detection Area	See next page

Motion Detection (PIR)

Sensor	Quad element pyroelectric
RFI Immunity	>15 V/m @ 10-1000 MHz
Maximum Detection Range	5 m (16.4 ft)*
Detection Area	See next page

Light Detection (PE)

Lux Range	5-5000 lux

Control

Serial Ports	1 x RS-485
Supported Protocols	DyNet
User Input	Infrared (RC5 IR remote control) 1 x service switch
Indicators	1 x red motion LED

Physical

Dimensions (H x W)	32 x 90 mm (1.26 x 3.54 in)
Packed Weight	0.25 kg (0.55 lb)
Construction	Polycarbonate plastic enclosure
Color	Off-white
Serial Ports	1 x 5-way screw terminal +V, D-, D+, GND, SHLD
Screw Terminal Conductor Size	2.5 mm^2 (#12 AWG) (max)
Mounting Substrate Thickness	3-25 mm (0.12-0.98 in)

Environment

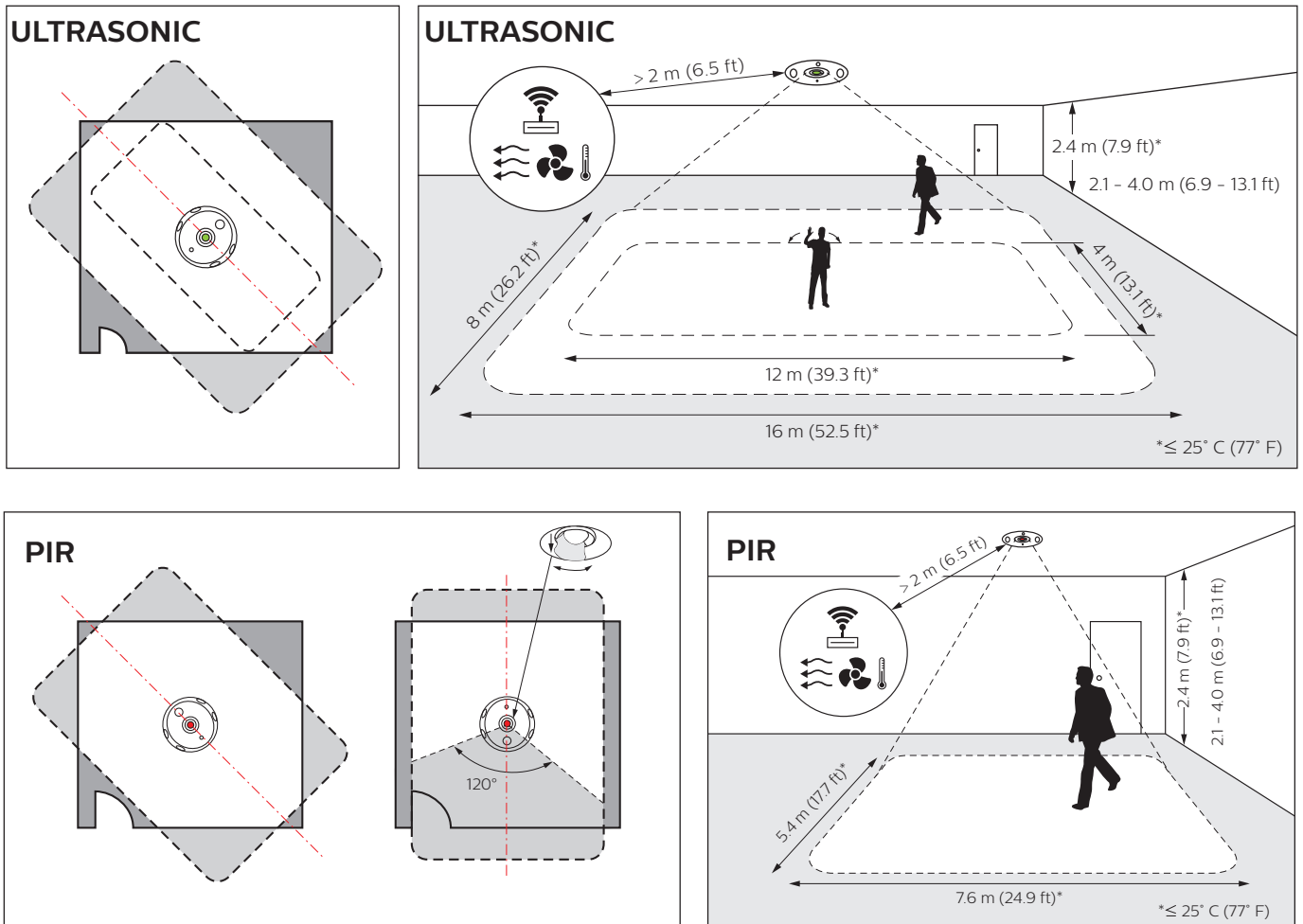|	
Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Compliance

Certification	CE, RCM, RoHS

* Typical detection range at ≤ 25°C (77°F). Range is reduced at higher temperatures.

Detection Area

ULTRASONIC

ULTRASONIC

> 2 m (6.5 ft)

2.4 m (7.9 ft)*

2.1 – 4.0 m (6.9 – 13.1 ft)

8 m (26.2 ft)*

4 m (13.1 ft)*

12 m (39.3 ft)*

16 m (52.5 ft)*

*≤ 25˚ C (77˚ F)

PIR

120°

PIR

> 2 m (6.5 ft)

2.4 m (7.9 ft)*

2.1 – 4.0 m (6.9 – 13.1 ft)

5.4 m (17.7 ft)*

7.6 m (24.9 ft)*

*≤ 25˚ C (77˚ F)

Ordering Code

Product	Philips 12NC
DUS804CS–UP	913703070409

Accessories	Philips 12NC
DINGUS–DUS–RJ12–DUAL (dual RJ12 connector)	913703064309
DINGUS–DUS–RJ45–DUAL (dual RJ45 connector)	913703064409
IRT9090/01 (commissioning & testing RC5 IR remote control)	913700359103
IRT9010/00 (user–friendly RC5 IR remote control)	913700392403

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