

331, 331B Multisensor for RoomSet

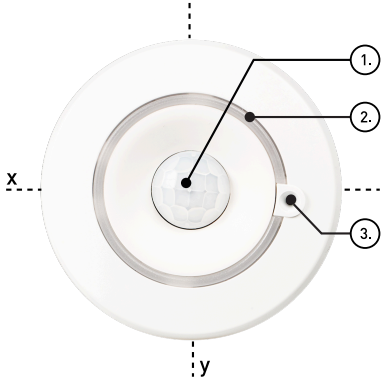
The 331 and 331B Multisensor for RoomSet are the heart of Helvar RoomSet single-room lighting solution for commissioning classrooms, offices and meeting rooms. For the installer, the automatic preset programming allows for swift out-of-the-box installation, with no configuration needed.

RoomSet supports advanced graphical configuration via an easy-to-use Android app that enables a quick and simple setup for different purposes, such as presentations, lectures or conferences, or for daylight-harvesting. For commissioning large numbers of rooms, the RoomSet app allows copying room layouts, thus making the commissioning process faster and consequently more cost-effective.

The Multisensor for RoomSet has a light sensor for constant-light control, and a passive infrared (PIR) presence detector to provide energy-saving functions in a DALI system. It also hosts a microcontroller running RoomSet firmware with Bluetooth® low-energy connectivity to allow tablet-based configuration.

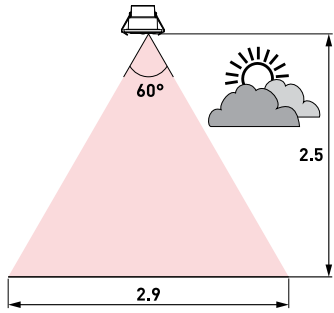
Key Features

- Excellent detection performance through high sensitivity and multidirectional coverage.
- Automated addressing and defaults programming to allow installer testing.
- Functional system just by powering on the sensor.
- Drag-and-drop graphical configuration of rooms with an intuitive Android app.
- Over-the-Air upgrades via the RoomSet app to keep the system up to date with the latest available functionality.
- Programmable constant-light control for energy efficiency.
- Cost-effective deployment of large numbers of rooms.

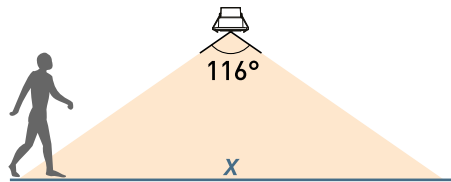
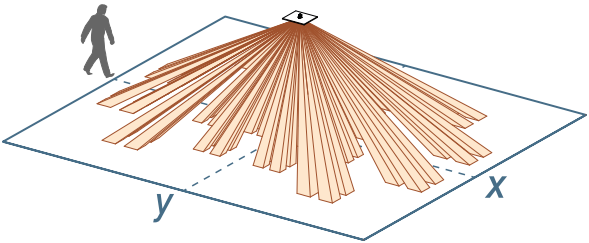


1. PIR sensor
2. Status/Indicator ring
3. Light sensor

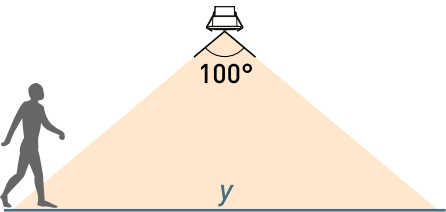
Constant Light Coverage



Presence Detection Coverage at 2.5m Height

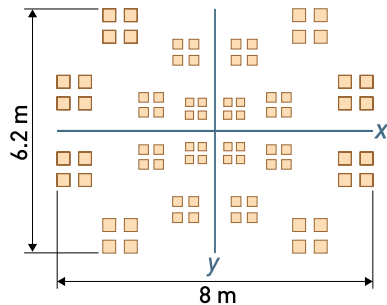


X-Axis Coverage

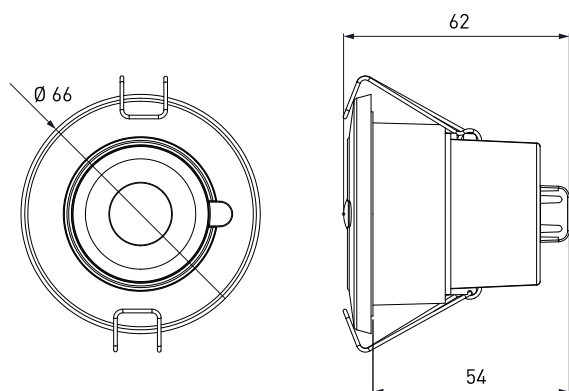


Y-Axis Coverage

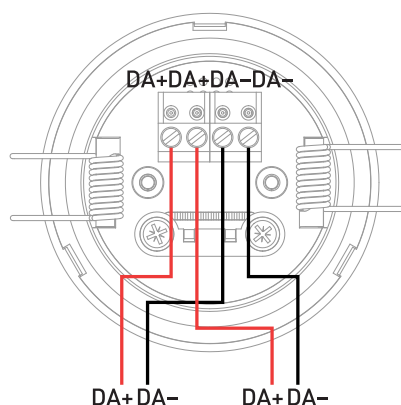
Detection Pattern at Floor Level



Dimensions (mm)



Connections



Technical Data


Connections	
DALI	Removable connector block
Bluetooth®:	BLE 4.1
Wire section:	0.5 mm ² – 1.5 mm ² solid or stranded
Cable rating:	All cables must be mains rated.


Electrical Data	
DALI supply input:	9.5 V – 22.5 V
DALI consumption:	40 mA Max

Sensors	
Light sensor:	For constant-light functions
Presence detector:	Passive infrared (PIR)

Operating and storage conditions	
Ambient temperature:	0 °C to +50 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	-10 °C to +70 °C

Compatibility	
Device:	Tablet (9.7" screen or larger recommended)
Software:	Android 6.0.2 or later BLE 4.1 or later

Mechanical data	
Max. recommended mounting height:	4 m
Presence detection coverage area:	46 m ² @ 2.5 m mounting height
Mounting hole diameter:	51 mm +/- 1 mm
 Note: If replacing older sensor then 52 mm to 55 mm mounting hole is acceptable.	
Ceiling thickness:	Maximum 25mm
Bezel diameter:	66 mm
Recommended clearance depth:	10 cm (with cable cover, incl. 5 cm for cabling)
Material (casing):	Nonflammable PC/ABS (UL94-V0)
Finish/Colour:	331: Semi-matt / White RAL 9003 331B: Semi-matt / Anthracite grey RAL 7016
Weight:	56 g
IP code:	IP30 [IP20 cable cover]

Conformity and standards	
Conformity:	
DALI standard:	IEC 62386
EMC emission:	EN 61000-6-3
RED:	EN 300328 EN 301489-17
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
Environment:	Complies with WEEE and RoHS directives.