The 331 Multisensor for RoomSet is 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.
Constant Light Coverage at 2.5 m Height

Presence Detection Coverage at 2.5 m Height

Detection pattern at floor level for 2.5 m mounting height

6.2 m

8 m
Technical Data

Connections

DALI: Removable connector block
Bluetooth®: BLE 4.1
Wire section: 0.5 mm² – 1.5 mm² solid or stranded
Cable rating: All cables must be mains rated.

Power
DALI supply input: 9.5 V – 22.5 V
DALI current consumption:
  Typical: 15 mA @ 16 V
  Maximum: 25 mA @ 9.5 V

Sensors
Light sensor: For constant-light functions
Presence detector: Passive infrared [PIR]

Mechanical data
Max. recommended mounting height: 4 m
Presence detection coverage area: 46 m² @ 2.5 m mounting height
Mounting hole diameter: 52 mm – 55 mm
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: Semi-matt / White RAL 9003
Weight: 56 g
IP code: IP30 [IP20 cable cover]

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

Conformity and standards
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.

RoomSet compatibility
Device: Tablet (9.7” screen or larger recommended)
Software: Android 6.0.2 or later
  BLE 4.1 or later

Dimensions (mm)