

Multisensor with linked PIR (312)

The Multisensor is a compact unit containing sensors to provide energy-saving functions when used in a DALI system. It contains:

- A light sensor
- A passive infrared (PIR) movement detector
- An infrared receiver (for remote control)

The unit is push-fitted into a ceiling or luminaire housing. The light sensor measures the ambient-light level in the room. The PIR detector enables the system to detect when the room is occupied. Helvar infrared remote control can be used to set the required light levels and to carry out basic system programming.

Key Features

- Presence detection default time-out of 20 minutes.
- Programmable constant light control for energy efficiency.
- Complete control using the hand-held remote.
- A local switch can be fitted to provide ON/OFF and a manual dimming function.
- The multisensor's programmable functions are set by five DIL switches at the back of the unit.
- These DIL switch settings can be overridden remotely by Helvar's Toolbox or Designer software no need for access to the Multisensor after installation.
- The coverage restrictor (provided) can be fitted to the Multisensor for more precise constant-light coverage.

Additional Functions

- The remote control handset can program most functions. Toolbox and Designer give full system access.
- Multiple linked PIR sensors connected in one system can communicate with each other and switch off the loads when all sensors are nondetecting.
- The automatic ON/OFF sequence of the presence detection system has three programmable steps (on, intermediate, off). Users can define how the loads react to the automatic presence detection commands from the Multisensor.

PIR Automatic ON/OFF Sequence

ON scene	Default: scene 16 (last level set by user)
INTERMEDIATE scene	Default: scene 14
OFF scene	Default: scene 15



Helvar

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Constant Light Coverage with restrictor



Presence Detection Coverage





freedom in lighting

Technical Data

Removable connector block

0.5 mm² – 1.5 mm² solid or

All cables must be mains rated.

For constant-light functions

PIR: Passive infrared presence

For remote control commands

Group creation and adjustment

55 mm (mounting surface > 2 mm)

Constant-light level

0.5 mm - 2 mm);

UL94V-0 nylon

65 mm

Scene store and recall

52 mm (mounting surface

80 mm (without cable cover);

100 mm (with cable cover, incl. 50 mm for cabling)

Matt / White RAL 9003

48 g without cable cover: 54 g with cable cover

stranded

2 wires

50 m

15 mA

detector

13 V to 22.5 V

Connections

DALI: Wire size:

Local control:

Cable rating:

Maximum length:

Power

DALI supply input: DALI consumption:

Sensors

Light sensor:

Presence detector:

Infrared receiver:

Remote control functions

Infrared remote control:

Mechanical data

Mounting hole diameter:

Bezel diameter:

Recommended clearance depth:

Material (casing): Finish/Colour:

Weight:

IP code:

Operating conditions

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

IP30

Conformity and standards

EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
Environment:	Complies with WEEE and RoHS directives.

Dimensions (mm)



Installation: mounting hole



Installation: Surface back box SBB-C

(Order separately)





Connections

