digidim

Multisensor with linked PIR (312)

The DIGIDIM 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 light sensor measures the ambient light level in the room. The PIR detector enables the system to detect when a room is occupied. People in the room can use the DIGIDIM remote controller to set the required light levels and to carry out basic system programming. The 312 Multisensor is push-fitted into a ceiling or luminaire housing.

Key Features

- Presence detection has a 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 DIGIDIM 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; DIGIDIM Toolbox and Designer software give full system access.
- When multiple linked PIR sensors are connected in one system, they will communicate with each other and switch off the loads only 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
freedom in lighting

CE
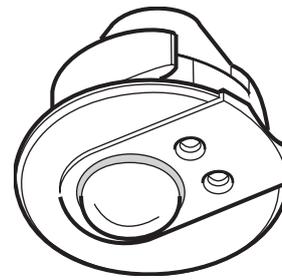
Constant Light Coverage without restrictor

100°
3 m
7.1 m
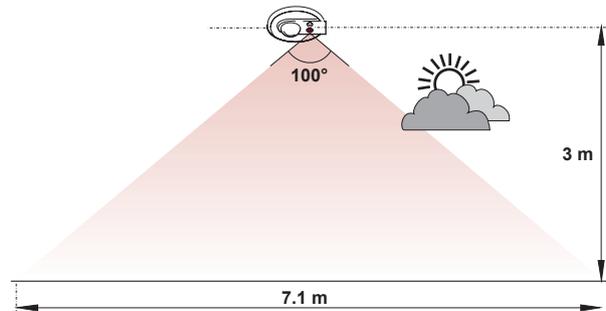
Constant Light Coverage with restrictor

40°
3 m
2.1 m
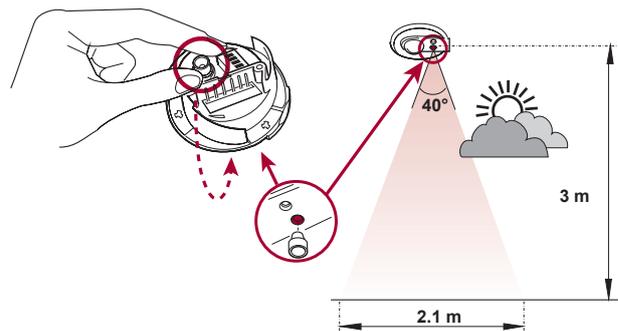
Presence Detection Coverage

85°
3 m
5.5 m

Intermediate scene activated after 20 min
Lights off
Lights on
ON scene (Scene 16)
No presence detected for 20 min
Presence detected
INTERMEDIATE scene (Scene 14)
OFF scene (Scene 15)
20 min (default setting)
20 s (default setting)
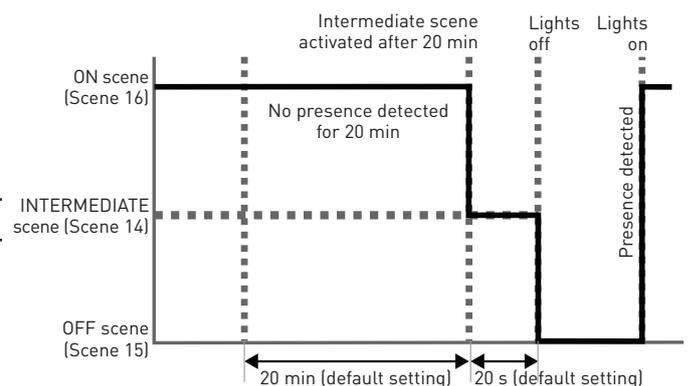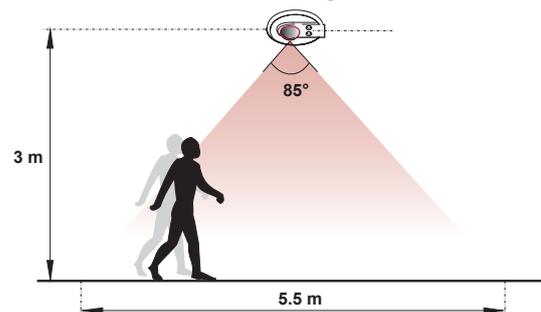
Technical Data

Connections

DALI:	Removable connector block
Wire size:	0.5 mm² – 1.5 mm² Solid or stranded
Local control:	2 wires
Cable rating:	All cables must be mains rated
Maximum length:	50 m

Power

DALI supply input:	13 V to 22.5 V
DALI consumption:	15 mA

Sensors

Light sensor:	For constant-light functions
Presence detector:	PIR: Passive infrared presence detector
Infrared receiver:	For remote control commands

Remote control functions

Infrared remote control:	Constant-light level; Group creation and adjustment; Scene store and recall

Mechanical data

Mounting hole diameter:	52 mm (mounting surface 0.5 mm – 2 mm); 55 mm (mounting surface > 2 mm)
Bezel diameter:	65 mm
Recommended clearance depth:	80 mm (without cable cover); 100 mm (with cable cover) (incl. 50 mm for cabling)
Material (casing):	UL94V-0 nylon
Finish/Colour:	Matt / White RAL 9003
Weight:	48 g without cable cover; 54 g with cable cover
IP code:	IP30

Operating conditions

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

Conformity and Standards

|	
EMC emission:	EN 61547
EMC immunity:	EN 55015
Safety:	EN 60950
Environment:	Complies with WEEE and RoHS directives

Dimensions (mm)
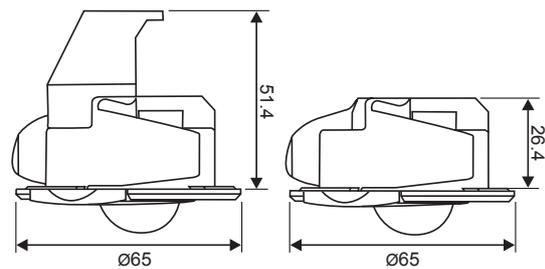
Installation: mounting hole
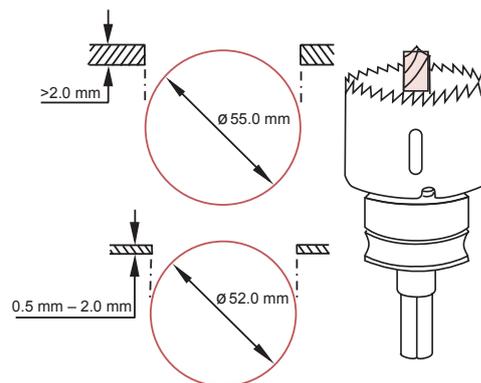
Installation: Surface back box SBB-C

(Order separately)

Connections