Freedom Sense

Freedom luminaire-based sensor Series

Product code: 5630xxx (see table below)

- Small and **inconspicuous** luminaire-based sensor that combines a constant light sensor and a passive infrared movement detector
- Can be used with Helvar Components Freedom driver + Node solutions when the control system supports it
- Various cable lengths available for flexible installation
- Integrated mounting features, also optional mounting accessories available
- If the sensor is connected to non-SELV control gear, the luminaire must be Class I

Light sensor

PIR sensor

CE

KEY FEATURES

- Small and inconspicuous, it does not change the appearance of the luminaire.
- Provided with mounting features that can be snapped into sheet metal: two on each long side, and two on the rear.
- Compatible with the following Freedom wireless lighting control solutions: Casambi and Mymesh by Chess.
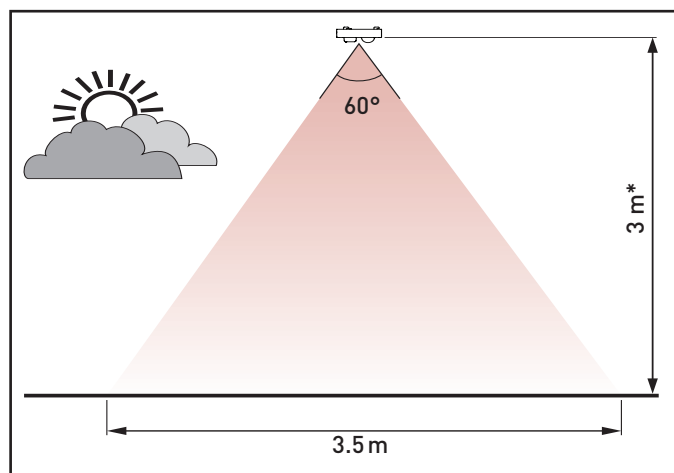
ORDER CODES

Product name	Order code	Sensor casing colour	Cable length
Freedom Sensors			
Freedom Sense	5630010	White	30 cm
	5630020	White	80 cm
	5630030	White	150 cm
	5630120	Black	80 cm

DETECTION

Light Sensor - For constant light functions

60°

3 m*

3.5 m

*Max recommended height 3 m

Presence Detector - Passive infrared (PIR)

108°

3 m*

8 m
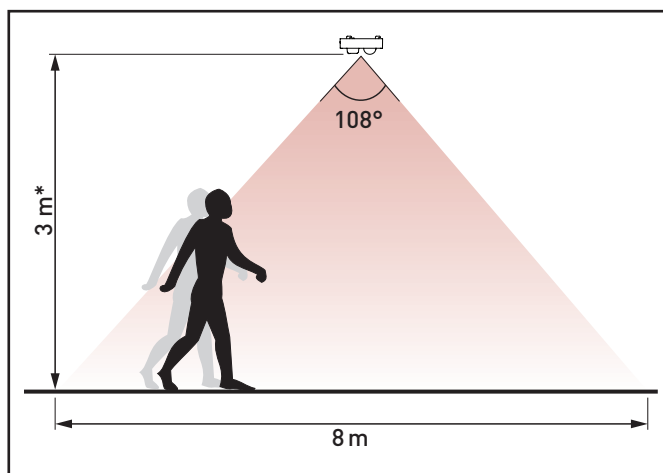
*Max recommended height 4 m

Freedom Sense

DETECTION

Detection pattern at floor level for 2.5 meters mounting height

CONNECTION

Connector side/rear view
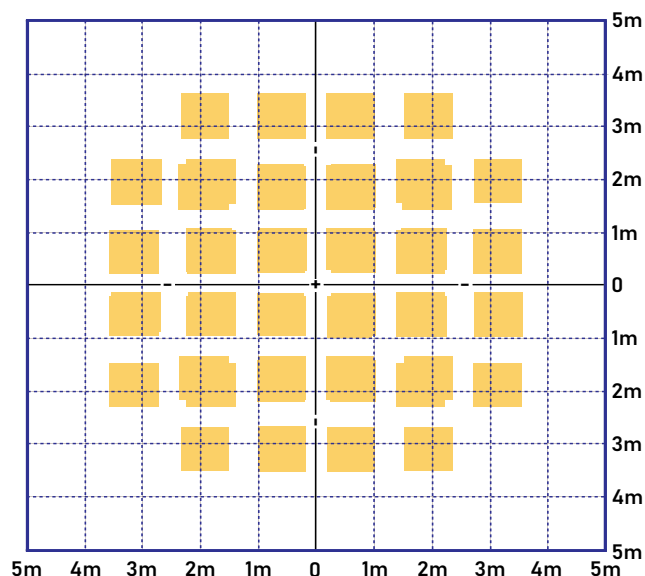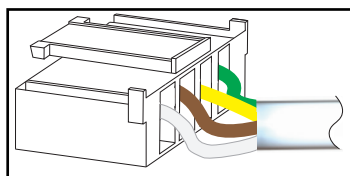
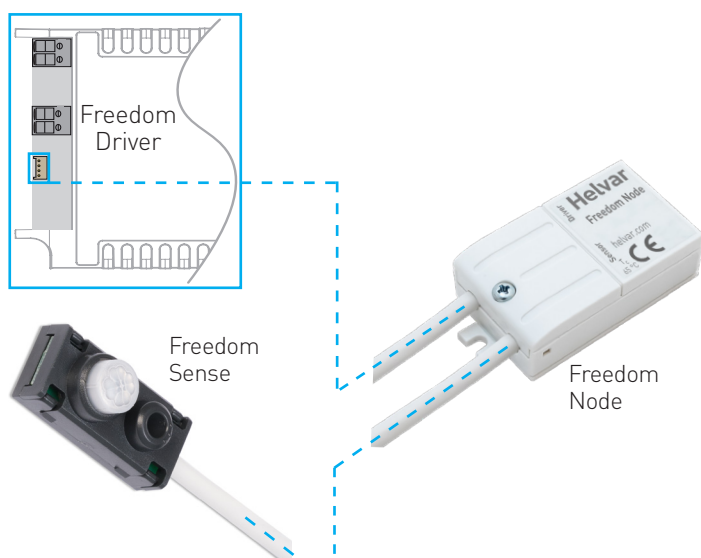**Note:** Ensure each connector securely 'clicks' into place when plugged in correctly.

There are two set up scenarios:

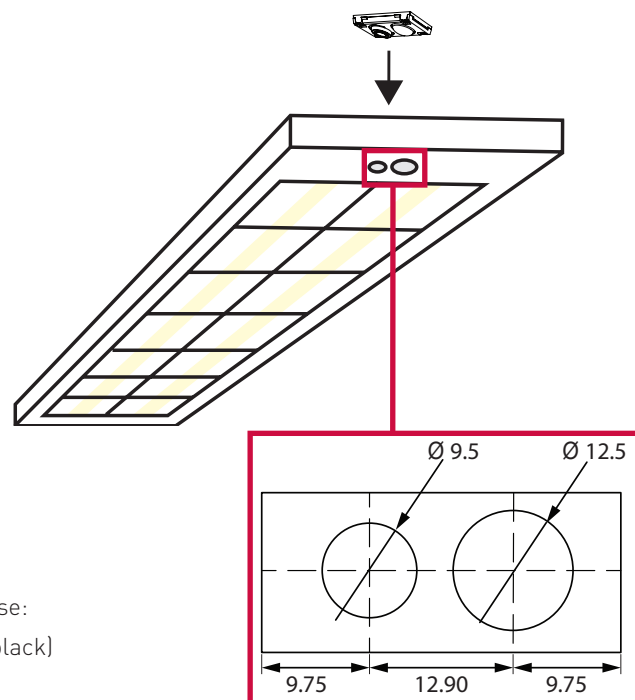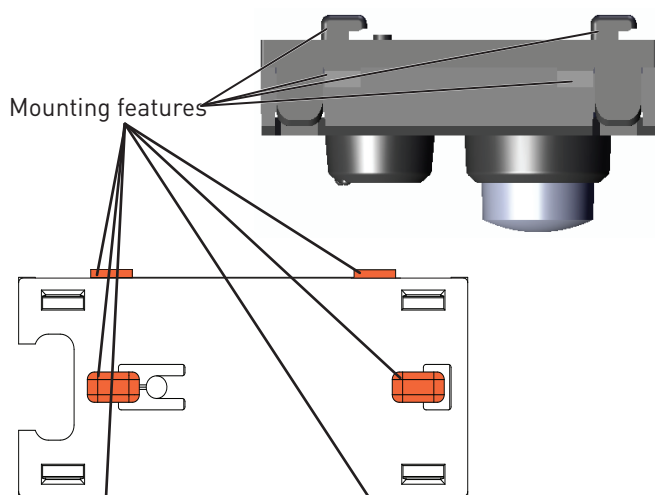**Case 1 - Connection with Freedom driver and separate Freedom Node**

Freedom Driver

Freedom Sense

Freedom Node

Case 2 - Connection to Freedom driver with integrated radio unit (e.g. LC27MINI-FD-150-700)

LED Driver
LC27MINI-FD-150-700
220-240 V 50-60 Hz 0,2 A (Imax)

I-LED	150–700 mA
λ	0,90
U-LED	9...52 V
PRATED	26,3 W
U-OUT	60 V
ta +50 °C	tc +85 °C

Sensor

EAC SELV

Helvar Components | Helvar Components Oy Ab, Yrittäjäntie 23, FI-03600 Karkkila, Finland. www.helvarcomponents.com
Data is subject to change without notice.

T30 001 1 C 07.11.2024   2/3

Freedom Sense

MOUNTING

Mounting features

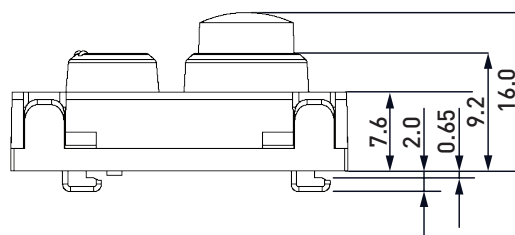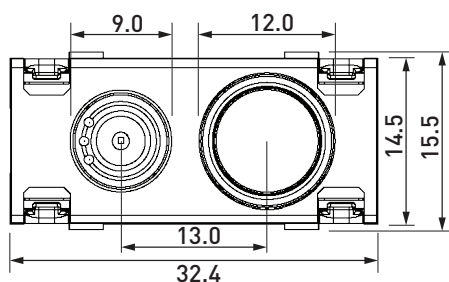**Note:** Sensor holders are available to be used with the Freedom Sense:
5691/5691B - ActiveAhead Sense Rectangular Sensor holder (white/black)
5692 - ActiveAhead Sense Circular Sensor holder (white)

Ø 9.5   Ø 12.5

9.75   12.90   9.75

DIMENSIONS

9.0   12.0   14.5   15.5   13.0   32.4

7.6   2.0   0.65   9.2   16.0

MATERIALS AND CONDITIONS

Connections

Freedom solution	Flexible cable terminated with a four-way, 2 mm locking connector. Note: If the sensor is connected to non-SELV control gear, the luminaire must be Class I.

Mechanical data

Dimensions	32.4 mm x 15.5 mm x 18 mm
Material (casing)	Fire-retardant PC/ABS blend
Colour	White (RAL 9003)
	Black (RAL 7016)
Ingress protection rating	IP30
Weight	22 g

Operating Conditions

Ambient temperature range	-20...+50 °C
	Note: the temperature difference between the detection target and the background must be at least 4 °C.
Relative humidity	Max. 85 %, noncondensing
Storage temperature	-20...+70 °C
Illuminance	5 lx to 5000 lx

Conformity & Standards

EMC emission	EN 55015
EMC Immunity	EN 61547
Safety	EN 61347–2–11

Compliant with relevant EU directives, CE marked, RoHS compliant