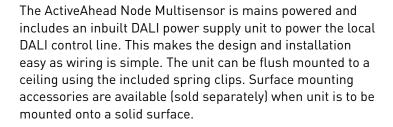


### 5640 ActiveAhead Node Multisensor

ActiveAhead Node Multisensor is a member of the truly intelligent wireless lighting control solution Helvar ActiveAhead. It can be used as a wireless sensor to control nearby other ActiveAhead nodes in the Bluetooth mesh network. It also connects standard DALI devices to the ActiveAhead system offering flexible options for the installation. Node Multisensor offers addressed local DALI control line which allows individually set light output levels for the connected DALI luminaires to suit the space and scene needs. In addition to the DALI luminaires, also relays, dimmers and additional Helvar DALI system sensors can be connected to the DALI control line.



The connected ActiveAhead nodes share information, such as movement detections, through the mesh network, and a mobile app allows you to configure the system where needed. Thanks to its smart software algorithm, Helvar ActiveAhead is able to learn how the space is used to predict the connected luminaires operation accordingly. Learning is based on the data that the node receives from locally connected sensors and from other ActiveAhead nodes in the network. Since it never stops learning, the ActiveAhead Node Multisensor will adapt to any future changes in its environment, such as a wall installation or removal.



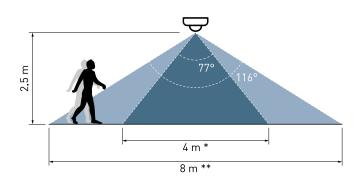
## **Key Features**

- Use as a wireless sensor on the Helvar ActiveAhead mesh network and / or connect DALI devices into the network.
- Offers local addressed DALI control line
- Customisation via mobile app
- Quick and simple installation with mains power and inbuilt DALI power supply unit



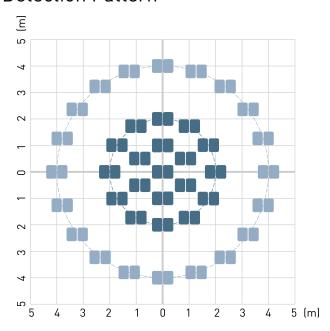
## **Detection**

## **Detection Coverage**

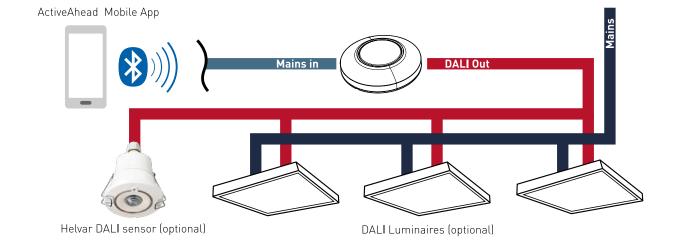


- \* = small movement
- \*\* = big movement

### **Detection Pattern**

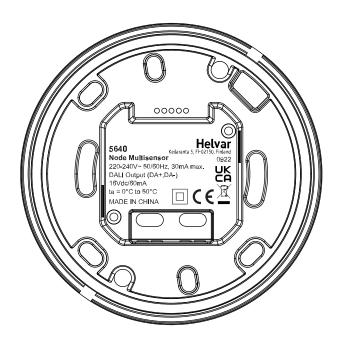


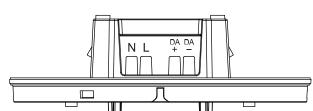
# **Installation Diagram**



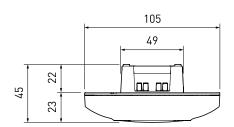


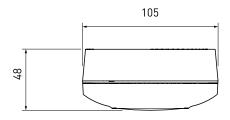
## **Connections**





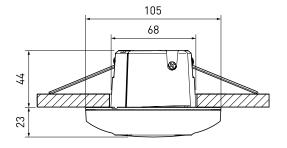
## Dimensions (mm)





#### Standard

w/ Surface-Mounted Box (accessory)



w/ Recess Spring Mount (included)



### **Technical Data**

#### Supported DALI device types

DT0: Fluorescent lamp control gear

DT1: Self-contained emergency control gear

DT4: Incandescent lamp dimmer

DT5: Analog-to-digital converter, Conversion to DC

(0/1-10 V)

DT6: LED lamp control gear

DT7: Switching (relay) control gear

DT8: Colour control gear (colour temperature Tc only)

Part 303 Occupancy sensors

Part 304 Light sensors

Helvar DALI system sensors: 320, 321, 322, 341 and 342

#### Connections

Mains: Wire section: 0.5–2.5 mm<sup>2</sup>

solid or stranded

**DALI cable:** Wire section: 0.5–2.5 mm<sup>2</sup>

solid or stranded

Cable stripping length: 6-8 mm

Electrical data

Input voltage: 220–240 VAC, 50/60 Hz

Input current: Max. 30 mA
Input power: Max. 3.5 W

Output current for DALI: Typical 60 mA (Max. 250 mA)

4 m

Sensors

**Light sensor:** For bright-out function

Presence detector: Passive infrared (PIR)

Max. recommended

mounting height:

### Wireless Connectivity

Frequency: 2.4 GHz

Technology: Bluetooth Mesh
Antenna Pattern: Omnidirectional

Max distance between

15 m in free space

Nodes:

**Note:** To ensure proper operation the mesh network must consist of a minimum 10 ActiveAhead Nodes.

### Operating and storage conditions

Number of connected

Max 16 addresses or 60 mA

DALI devices:

**Note:** The total number of connected devices is limited by the addresses, the DALI current consumption limitation.

Operating temperature: 0 °C to +50 °C

Note: The temperature difference between the detection

target and the background must be at least 4 °C.

Relative humidity: Max. 90 %, noncondensing

Storage temperature: -40 °C to +70 °C

Max. DALI cable length: 300 m

#### Mechanical data

Dimensions: 105 x 45 mm

105 x 48 mm with surface box

105 x 67 mm with flush mount

Material (casing): Polycarbonate

Weight: 130 g / 177 g (with packaging)

Safety class: Class II

IP20 with EU standard junction

box or spring clip box

IP54 with surface mounting

box



#### **Order Codes**

5640: Colour: White (RAL 9003)

5640B: Colour: Black (RAL 9005)

Delivered with Recess Spring Mount and PIR detection

mask.

Accessories (sold separately):

5002 Surface-Mounted Box, White

5002B Surface-Mounted Box, Black

#### Conformity and standards

Conformity:

EMC emission / EN 55015 / EN 61547

immunity:

Safety: EN 61347-1, EN 61347-2-11

RED: EN 300 328, EN 301 489-1,

EN 301 489-17

Isolation mains to DALI: Basic isolation

Environment: Complies with REACH and

RoHS directives.