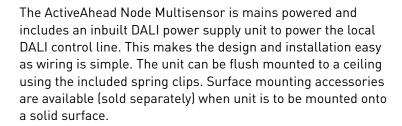


5640 ActiveAhead Node Multisensor

ActiveAhead Node Multisensor is a member of the truly intelligent wireless lighting control solution Helvar Active-Ahead®. It connects standard DALI devices to the ActiveAhead system offering a flexible room or space solution. 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, additional DALI-2 sensors and DALI-2 wall panels can be connected to the DALI control line. It can also be used as a wireless sensor to control nearby other ActiveAhead nodes in the Bluetooth® mesh network.



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.



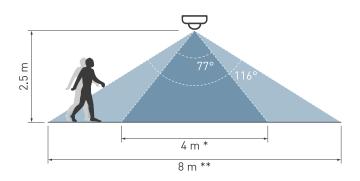
Key Features

- Scalable and easy to setup room solution
- Offers local addressed DALI control line
- Customisation via mobile app
- Quick and simple installation with mains power and inbuilt DALI power supply unit



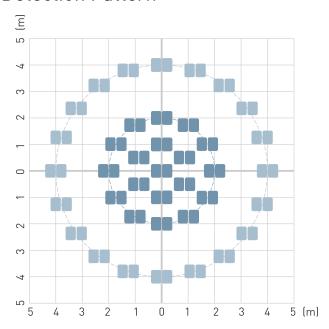
Detection

Detection Coverage

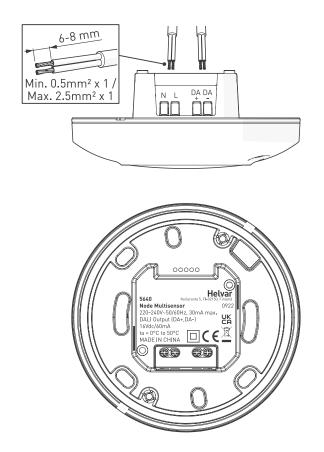


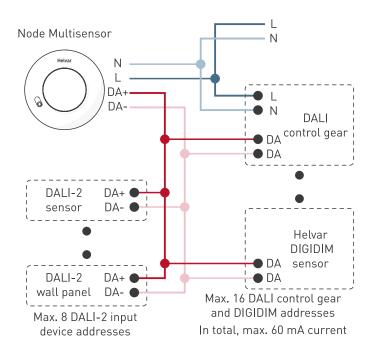
- * = small movement
- = big movement

Detection Pattern



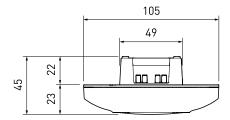
Connections



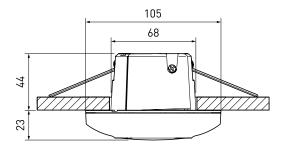




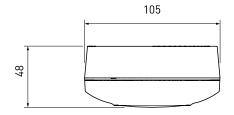
Dimensions (mm)



Standard



w/ Recess Spring Mount (included)



w/ Surface-Mounted Box (accessory)

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 301 Push buttons

Part 303 Occupancy sensors

Part 304 Light sensors

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

Note: Supported device types depend on the software version of the Node Multisensor.

Operating and storage conditions

Number of connected

DALI devices:

Max. 16 DALI control gear and

DIGIDIM addresses

Max. 8 DALI-2 input device

addresses

In total, max. 60 mA current

consumption

Note: The total number of connected devices is limited by the addresses and the DALI current consumption

limitation.

Note: There must be only one ActiveAhead Node on one

DALI line.

Max. DALI cable length:

0 °C to +50 °C Operating temperature:

Note: The temperature difference between the detection

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

Max. 90 %, noncondensing Relative humidity:

-40 °C to +70 °C Storage temperature:



Connections

Mains: Wire section: 0.5–2.5 mm²

solid or stranded

DALI cable: Wire section: 0.5–2.5 mm²

solid or stranded

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)

Other DALI power supply units must not be present on the

DALI line.

Isolation mains to DALI: Basic isolation

Sensors

Light sensor: Closed loop reflected light

SW version 1.20 and older: For

bright-out function

Presence detector: Passive infrared (PIR) detects

moving temperature differences

Max. recommended

mounting height:

4 m

Wireless Connectivity

Operating frequency

range:

2402-2480 MHz

Transmission power: Max. 0 dBm

Technology: Bluetooth® Mesh

Antenna Pattern: Omnidirectional

Max distance between

Nodes:

15 m in free space

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

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: 170 g / 250 g (with packaging)

Safety class: Class II

IP20 with EU standard junction

box or spring clip box

IP54 with surface mounting box

Conformity and standards

Conformity: C CA

EMC emission /

immunity:

Safety:

EN 55015 / EN 61547

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

EN 301 489-17

Environment: Complies with WEEE, RoHS

and REACH directives.

EN 61347-1, EN 61347-2-11

Order Codes

5640000 Colour: White (RAL 9003) 5640001 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