

5652 ActiveAhead Node

The ActiveAhead Node is a member of the truly intelligent wireless lighting control solution Helvar ActiveAhead®. This unit contains radio antenna, processor and option to connect a sensor. It uses Bluetooth® Mesh to communicate wirelessly with other ActiveAhead Nodes. When a compatible sensor is connected, the ActiveAhead Node has the ability to continuously learn from the space usage and adapt the lighting accordingly.

Choose a separately sold Freedom connecting cable of the required length and plug the Node into a Helvar Components Freedom LED driver or an ActiveAhead Adapter DA.

Once installed, configuration can be easily done using the ActiveAhead mobile app.



Key Features

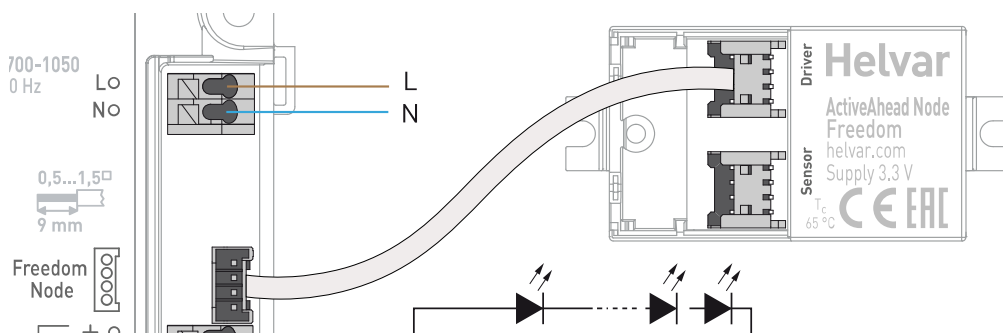
- Connects with Helvar Components Freedom LED drivers or with ActiveAhead Adapter DA
- Small size with multiple options to assemble into a luminaire
- When equipped with a sensor, continuously learns and adapts to changes in space usage

Mounting

When luminaire body is made out of metal, the ActiveAhead Node must be placed outside the luminaire body to achieve good radio communication to all directions. Contact your Helvar sales representative to get information on what to consider when designing and testing a wireless ActiveAhead luminaire.

Connections

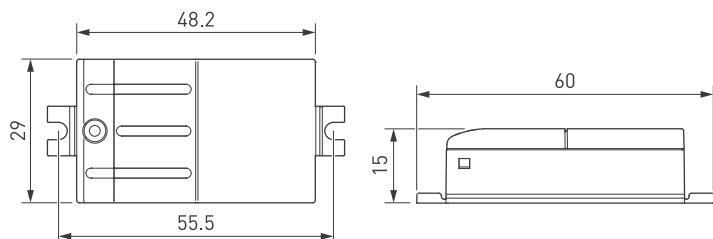
Connecting the Node to a Helvar Components Freedom LED Driver.



Note: Ensure connectors securely 'click' into place when plugged in correctly.

Note: If the Node is connected to non-SELV control gear, the luminaire must be Class I.

Dimensions (mm)



The mounting tabs can be removed in case they are not needed.

The integrated strain-relief is needed in independent installation. In built-in use it is not required to be connected.

Technical Data

Connections

ActiveAhead: Flexible cable terminated with a four-way, locking connector.

Electrical Data

Power Consumption: Max 53 mW

Input Voltage: 3.3 V

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.

Order Codes

5652 ActiveAhead Node

Connecting cables are sold separately:

5009000 Freedom cable 15 cm

5009100 Freedom cable 30 cm

5009200 Freedom cable 45 cm

5009300 Freedom cable 90 cm

5009400 Freedom cable 150 cm

Operating conditions

Ambient temperature: -25 °C to +50 °C

Relative humidity: Max. 85 %, noncondensing

Storage temperature: -40 °C to +80 °C

Tc point (performance measurements): Tc = 65 °C

Max. temperature at Tc point: 65 °C

Mechanical data

Dimensions: 60 × 29 × 15 mm

Material (casing): Fire-retardant polycarbonate

Colour: White (RAL 9003)

IP rating: IP20

Weight: 12 g

Conformity and standards

Conformity: 

EMC emission: EN 55015

EMC immunity: EN 61547

RED: EN 300 328, EN 301 489-1, EN 301 489-17

Safety: EN 61347-2-11

Environment: Complies with WEEE, RoHS and REACH directives.