

# 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

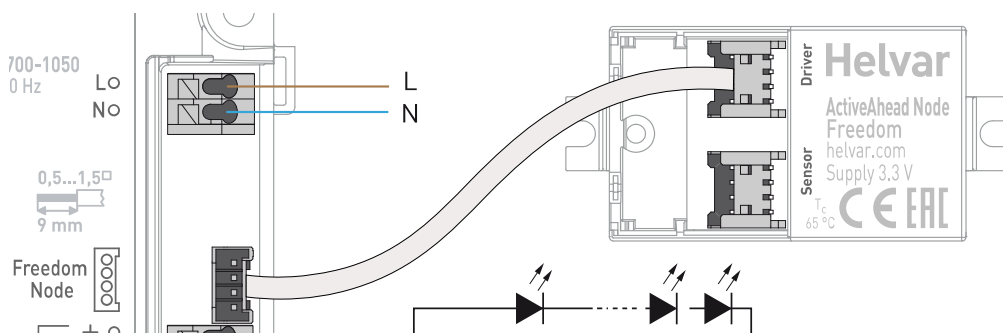
- Connects with Helvar Components Freedom LED drivers or with ActiveAhead Adapter DA
- Small size with multiple options to assemble into a luminaire
- When equipped with a sensor, continuously learns and adapts to changes in space usage

## 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

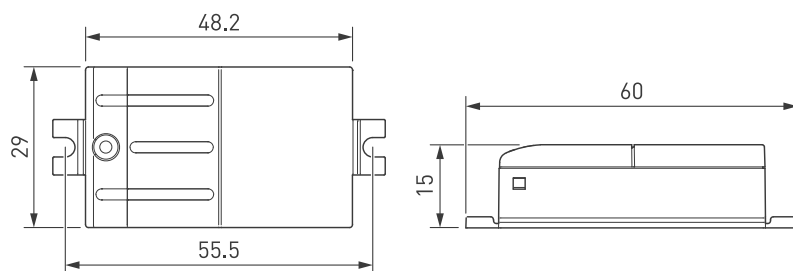
Connecting the Node to a Helvar Components Freedom LED Driver.



**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

**Frequency:** 2.4 GHz  
**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.