

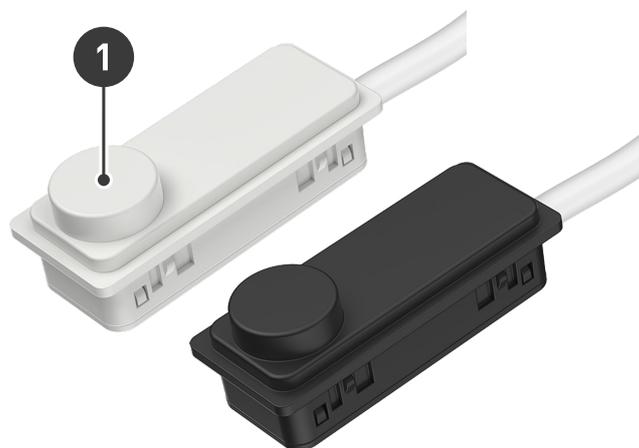
5633 ActiveAhead Node R40

The ActiveAhead Node R40 is a member of the truly intelligent wireless lighting control solution Helvar ActiveAhead®. This extremely compact and sophisticated unit contains radio antenna and processor. The Node R40 design allows for multiple mounting options within a luminaire and excellent communication in all directions using a Bluetooth® Mesh network to communicate wirelessly.

The cable is already wired to the unit meaning easy and quick luminaire assembly. Simply plug the connector of the cable directly into a Helvar Components Freedom LED driver or an ActiveAhead Adapter DA.

Once installed, configuration can be easily done using the ActiveAhead mobile app. Note that Node R40 is shown as a Node Sense on the mobile app.

The product is available in white and dark grey.



1. Radio antenna

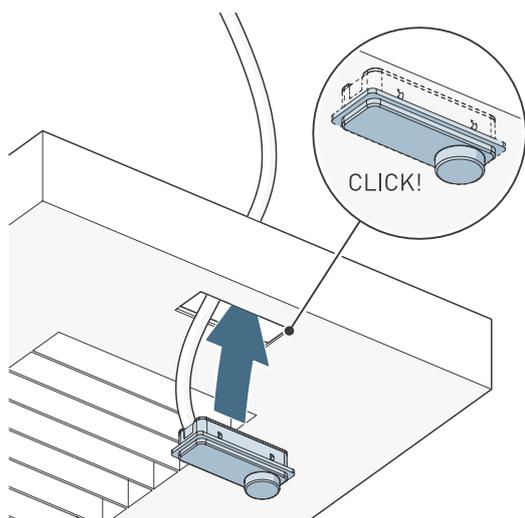
Key features

- Follows the 5634 ActiveAhead Node Sense design and dimensions for fast luminaire assembly
- Small and inconspicuous, the compact unit does not change the appearance of the luminaire
- Part of the ActiveAhead wireless lighting control solution

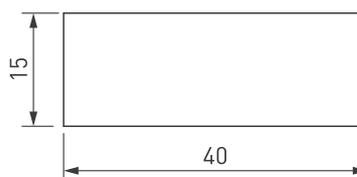
Mounting

The ActiveAhead Node R40 can be mounted to a luminaire in three ways:

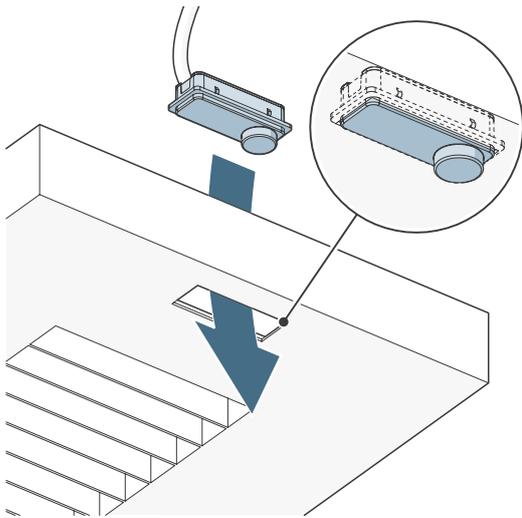
1) When mounting from outside in, carefully push the unit into the cutout until it 'clicks' into place and sits flush with the luminaire casing.



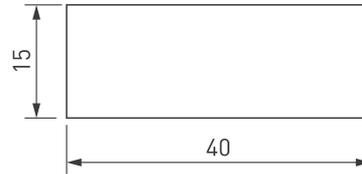
Cutout dimensions (mm)



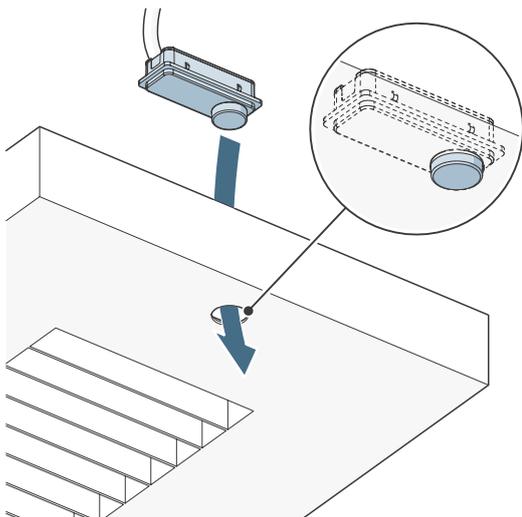
2) When mounting from inside out, ensure the face of the unit sits level with the luminaire casing and secure the Node in place.



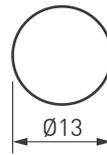
Cutout dimensions (mm)



3) When mounting with drilled cut-outs make sure the radio antenna sits correctly within their allocated areas.

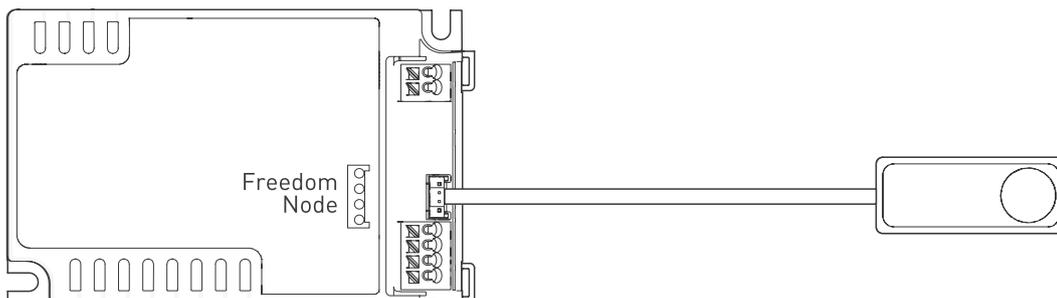


Cutout dimensions (mm)



Connections

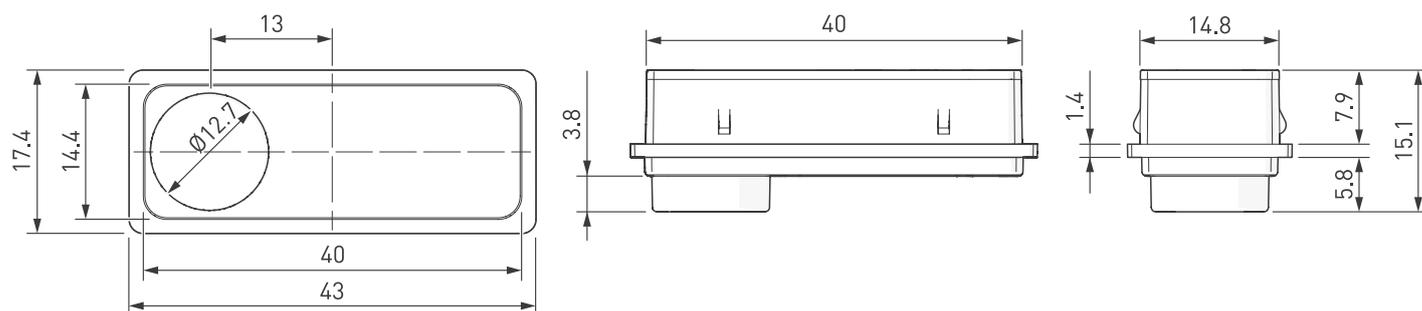
Connecting the Node R40 to a Helvar Components Freedom LED Driver.



Note: Ensure connector securely 'clicks' into place when plugged in correctly.

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

Dimensions (mm)



Technical Data

Connections

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

Electrical Data

Power Consumption: 60 mW, max 70 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

5633000 Node R40, White, 80 cm cable

5633002 Node R40, Grey, 80 cm cable

Accessories (sold separately):

5693 ActiveAhead Node Sense
Circular Holder

5694 ActiveAhead Node Sense
Rectangular Holder

Operating conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 85 %, noncondensing

Storage temperature: –20 °C to +70 °C

Mechanical data

Dimensions: 43 × 17.4 × 15.1 mm

Material (casing): Fire-retardant plastic

Colour: White (RAL 9003)

Grey (RAL 7016)

IP rating: IP30

Weight: 20 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.