

ActiveAhead Node Advanced (5609) Datasheet



ActiveAhead Node Advanced is a member of the truly intelligent wireless lighting control solution Helvar ActiveAhead®. It connects standard DALI luminaires to the ActiveAhead Bluetooth® mesh network.

The connected ActiveAhead nodes share information, such as movement detections, through the mesh network, and a mobile app allows you to adjust the parameters of the system.

The ActiveAhead Node Advanced is very easy to install even with thick mains cables and is equipped with integrated spacious strain reliefs and supports looping the mains. Each Node Advanced has a DALI output with dual parallel connectors.

Both ActiveAhead sensors as well Helvar DALI system sensors can be connected to anticipate the most suitable lighting conditions right before they are needed. Thanks to its smart software algorithm, Helvar ActiveAhead is able to learn how the space is used to predict the luminaire operation accordingly.

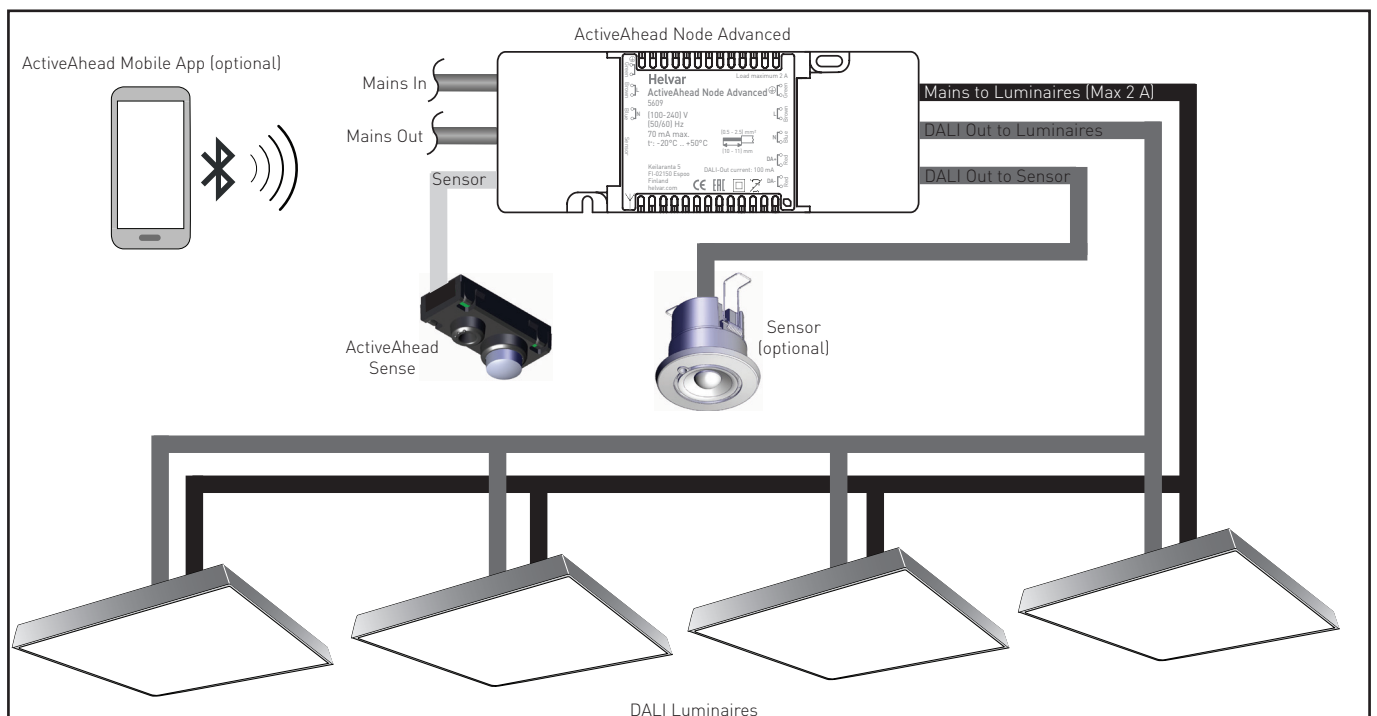
Learning is based on the data that the node receives from locally connected sensors and from other ActiveAhead nodes in the network. Since it never stops learning, the ActiveAhead Node Advanced will adapt to any future changes in its environment, such as a wall installation or removal.



Key Features

- Connects DALI luminaires into the wireless Helvar ActiveAhead network.
- Compatible with the ActiveAhead sensors as well as Helvar DALI system sensors (320, 321, 322 and 341).
- Continuously learns how the space is used and acts accordingly.
- Additional customisation via mobile app.
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables

Installation Diagram



Technical Data

Connections

Doubled input and output terminals for looping the mains and DALI cables

- Mains: 3 × 2-pole push-fit terminals
Wire section: 0.5 mm² – 2.5 mm² solid or stranded.
- DALI cable: 2 × 2-pole push-fit terminals
Wire section: 0.5 mm² – 2.5 mm² solid or stranded.
- Mains Output: Max. 2 A 3 × 2-pole push-fit terminals
Wire section: 0.5 mm² – 2.5 mm² solid or stranded.
- Sensor: ActiveAhead Sense connector

Electrical data

- Input voltage: 100 VAC – 240 VAC
- Starting voltage: 85 V
- Input current: Max. 70 mA
- Input power: Max. 3.5 W
- Input frequency: 50 Hz – 60 Hz
- Output current for DALI: Typical 100 mA (Max. 250 mA)
- Sensor interface: 3.3 V

Mechanical data

- Dimensions: 208 mm × 79 mm × 30 mm
- Material (casing): Polycarbonate
- Colour: White RAL 9016
- Weight: 182 g
- Safety class: Construction class: II. Suitable for installation in Class I or Class II luminaires, or for independent installation.

Power ratio and frequency

Bluetooth® wireless technology: Bluetooth® Mesh (2.4 GHz)

Antenna pattern: Omnidirectional

Operating conditions

- Number of connected DALI devices: 16 addresses or 100 mA (see Note 1)
- Mains Output: Max. 2 A
- Output pulse withstand (inrush) capability: Max. 8 pcs load devices (see Note 1 and 2)

Note 1: The total number of connected devices is limited by the lower of Max. Addresses, DALI current consumed or inrush current limitation.

Note 2: A maximum of 16 pcs. of load devices can be connected when mains is fed from different source.

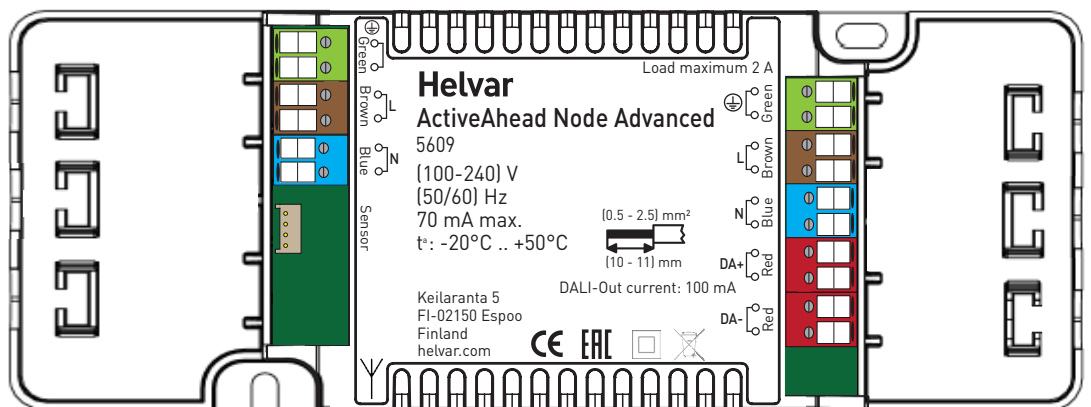
- Operating temperature: -20 °C to +50 °C
- Relative humidity: Max. 90 %, noncondensing
- Storage temperature: -40 °C to +80 °C
- Max. DALI cable length: 30 m
- Max. distance between control units: 10 m in free space

Conformity and standards

- EMC: EN 55015, EN 61547
- Safety: EN 61347-1, EN 61347-2-11
- RED: EN 301 489-1, EN 301 489-17, EN 300 328
- Isolation mains to DALI: Basic isolation (250 V)
- Isolation mains to sensor: Reinforced isolation (250 V)
- Isolation DALI to sensor: Supplementary isolation (250 V)
- Environment: Complies with WEEE and RoHS directives.

Connections

Note: Doors of the unit have been removed from this illustration



Dimensions (mm)

