ActiveAhead
Application Guide

Helvar

TURNING EVERYDAY PLACES
INTO BRIGHTER SPACES

Table of Contents

LIGHTING CONTROLS
FEATURES & BENEFITS
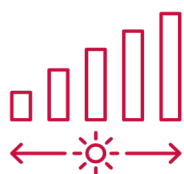
Intensity and Dimming

Light output levels can be set according to the specification.

Colour Temperature

Adjust colour temperature to have the desired atmosphere and mood.

Presence Detection

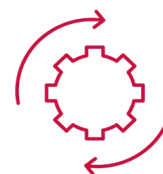Lights are dimmed automatically based on the movement detections.

Daylight Harvesting

Lights are dimmed to enable energy savings when daylight is available.

Out-of-the-box Operation

Lights start working the moment they are powered on and can be tuned later if necessary.

Automatic Lighting Control

Lighting adapts automatically and continuously to the actual space usage.
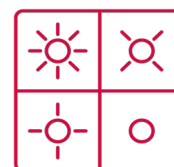
Wall Panels

Manual control with DALI-2 and wire-less battery-free wall panels.

Groups

Luminaires can be grouped together, and group member level can be selected to support energy savings and comfort.

Scenes

Predefined lighting scenes enable illumination based on lighting needs or situational requirements.

Personal Lighting Control

Space user can tune the light above the workstation using their mobile phone.
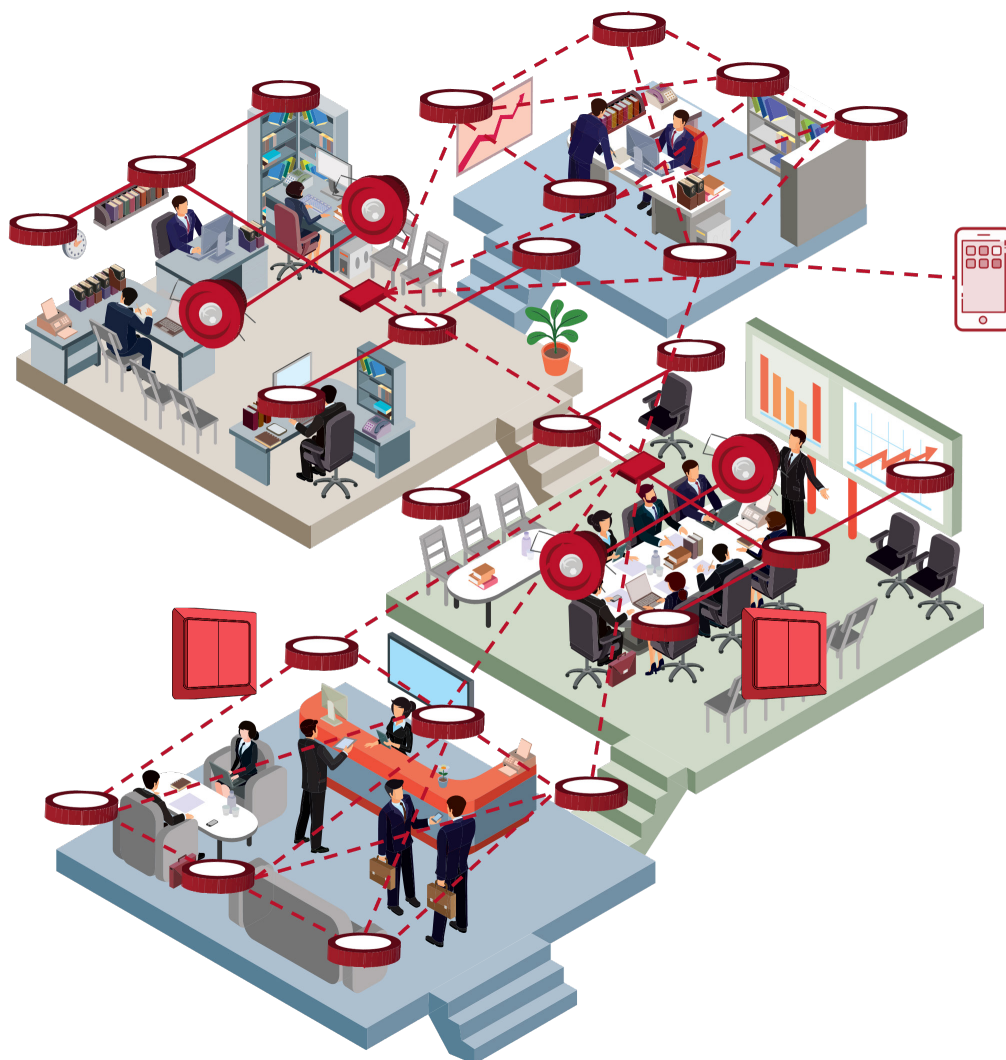
Corridor Hold

Keep lights on in a space while another space is in use for safety and comfort.

Absence Detection

Lights are turned on manually and dimmed down automatically.
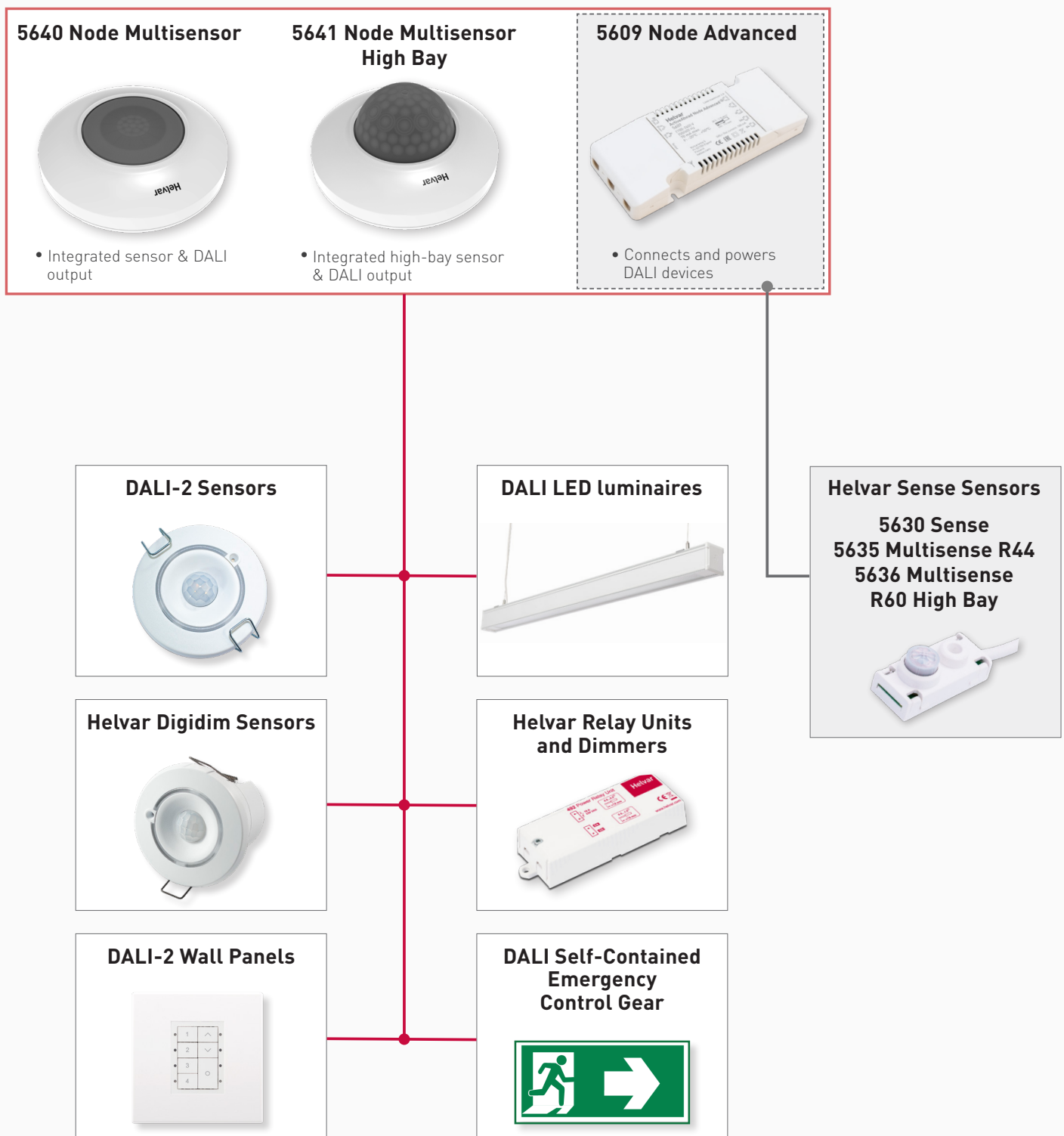
SOLUTION OVERVIEW

Nodes in the **Helvar ActiveAhead** system communicate wirelessly using Bluetooth Mesh technology. These Nodes can be built into luminaires offering a really simple installation. These Nodes can also connect standard **DALI** and **DALI-2** devices; such as, luminaires, sensors and wall panels into the system. Different types of Nodes communicate seamlessly and can be chosen based on what best suits the space in question. This makes the ActiveAhead system easy and flexible to design, install and scale.
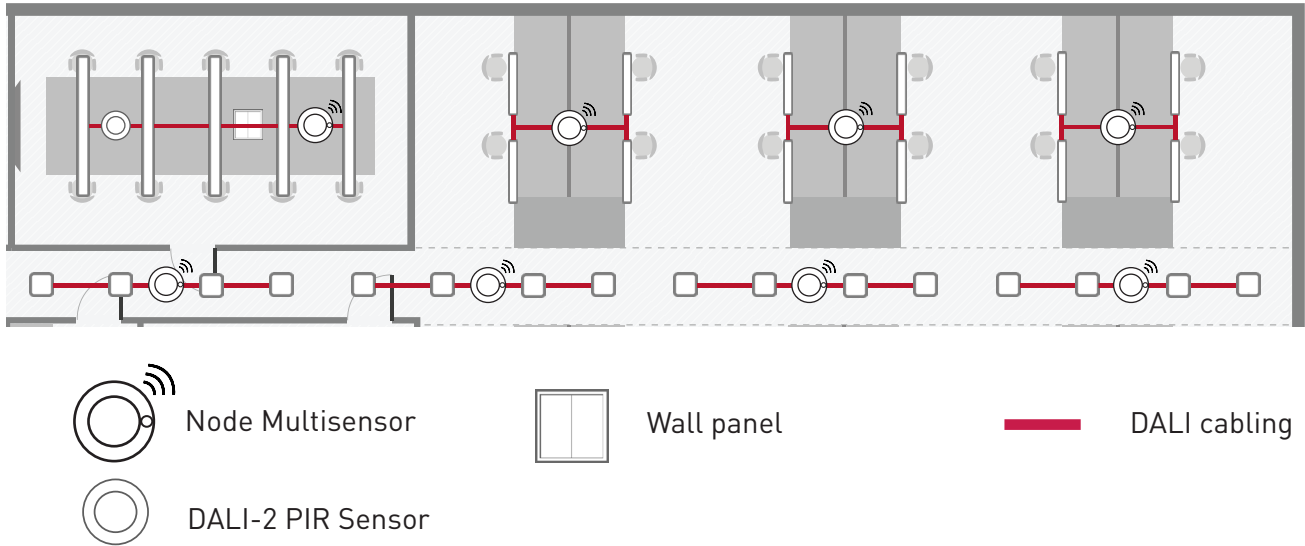
This document shows how different spaces can be implemented using ActiveAhead and standard DALI devices. When configuration is required, it is done with the easy-to-use ActiveAhead mobile app.

CHOOSING PRODUCTS WITH **INDEPENDENT NODES**

With independent ActiveAhead Nodes, you are free to choose standard DALI luminaires for your installation. Add necessary DALI-2 sensors and DALI-2 or wireless wall panels as required and you are good to go. The system starts to work out-of-the-box and finetuning is done using the mobile app.
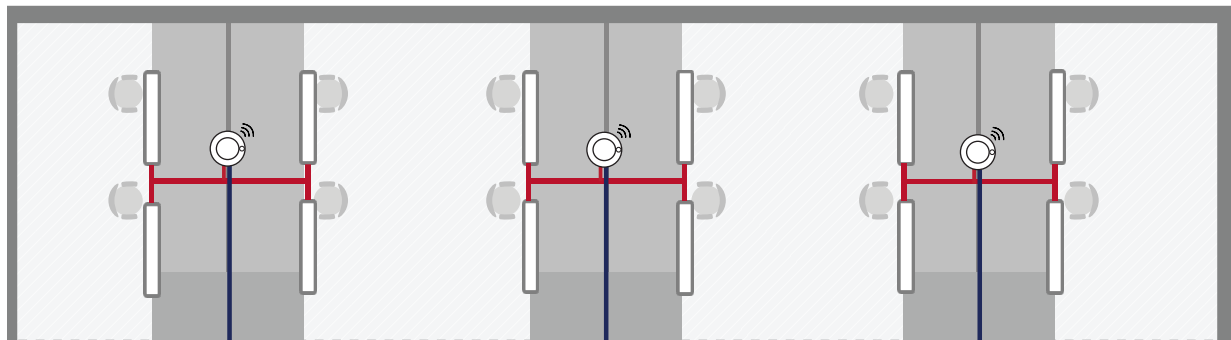
5640 Node Multisensor

- Integrated sensor & DALI output

5641 Node Multisensor High Bay

- Integrated high-bay sensor & DALI output

5609 Node Advanced

- Connects and powers DALI devices

DALI-2 Sensors

DALI LED luminaires

Helvar Sense Sensors

**5630 Sense
5635 Multisense R44
5636 Multisense R60 High Bay**

Helvar Digidim Sensors

Helvar Relay Units and Dimmers

DALI-2 Wall Panels

DALI Self-Contained Emergency Control Gear

5640 - OVERALL VIEW OF AN **OFFICE SPACE**

Node Multisensor   Wall panel   DALI cabling

DALI-2 PIR Sensor

- Simple and fast to design, install and configure
- Cost efficient with great ROI
- Standard DALI luminaires and DALI-2 input devices

5640 - **OPEN PLAN**

○ Node Multisensor

—— DALI cabling

—— Mains cabling

- Out-of-the-box operation with presence detection and daylight savings
- Standard DALI luminaires
- Add grouping and corridor hold for additional comfort

OUT-OF-THE-BOX OPERATION
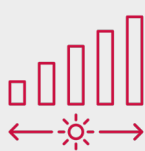
INTENSITY & DIMMING

AUTOMATION

PRESENCE DETECTION

DAYLIGHT HARVESTING

Helvar Products

5640 ActiveAhead
Node Multisensor

5640 - **CORRIDOR**

- Out-of-the-box operation with presence detection and daylight savings
- Standard DALI luminaires
- Add grouping and corridor hold for additional comfort

◎))) Node Multisensor

━━━ DALI cabling

━━━ Mains cabling

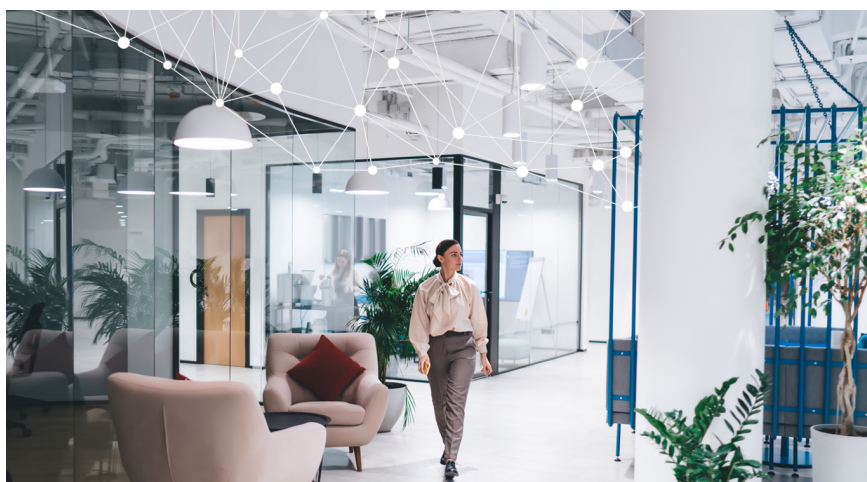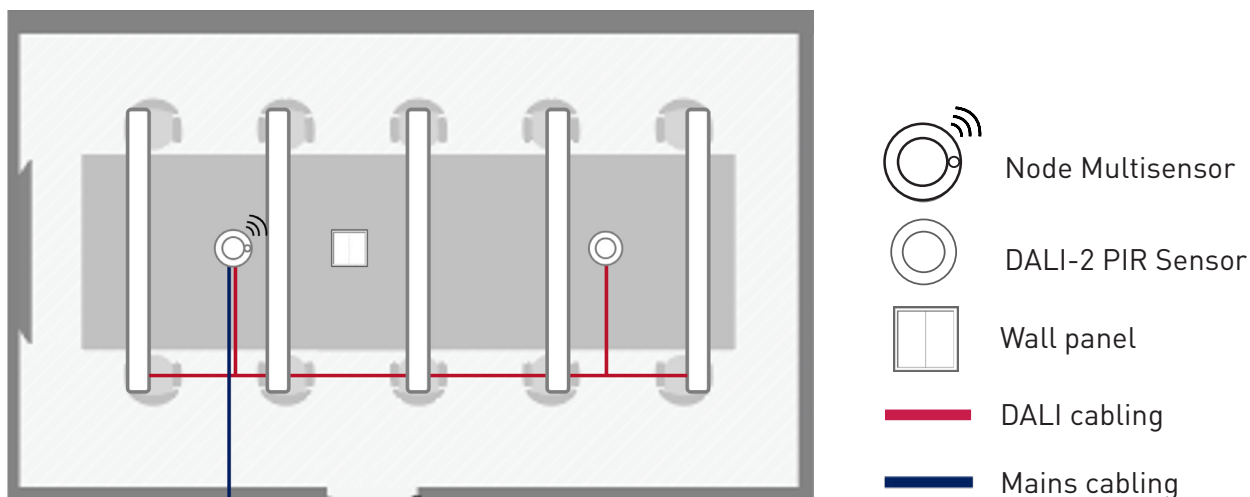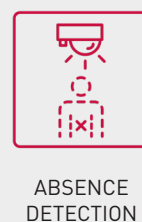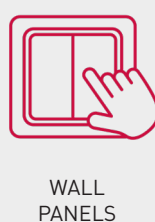| OUT-OF-THE-BOX OPERATION	INTENSITY & DIMMING	AUTOMATION	PRESENCE DETECTION	GROUPS	CORRIDOR HOLD

Helvar Products

5640 ActiveAhead
Node Multisensor

5640 - **MEETING ROOM** A

Node Multisensor

DALI-2 PIR Sensor

Wall panel

DALI cabling

Mains cabling

- Presence or absence detection and daylight savings
- Standard DALI luminaires
- Add group and wall panel for manual control
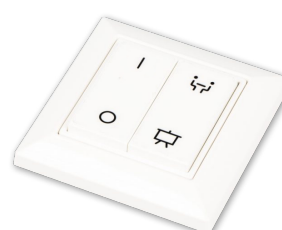- Add corridor hold for additional comfort

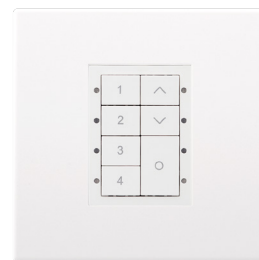| OUT-OF-THE-BOX OPERATION	INTENSITY & DIMMING	GROUPS	SCENES	WALL PANELS	CORRIDOR HOLD	ABSENCE DETECTION

Helvar Products

5640 ActiveAhead
Node Multisensor

320D2 PIR Sensor
(DALI-2)

185W Wireless
Control Panel

5640 & DALI-2 PANELS - **MEETING ROOM** B

◎)))	Node Multisensor
◎	DALI-2 PIR Sensor
⬜	DALI-2 panel
▬▬	DALI cabling
▬▬	Mains cabling
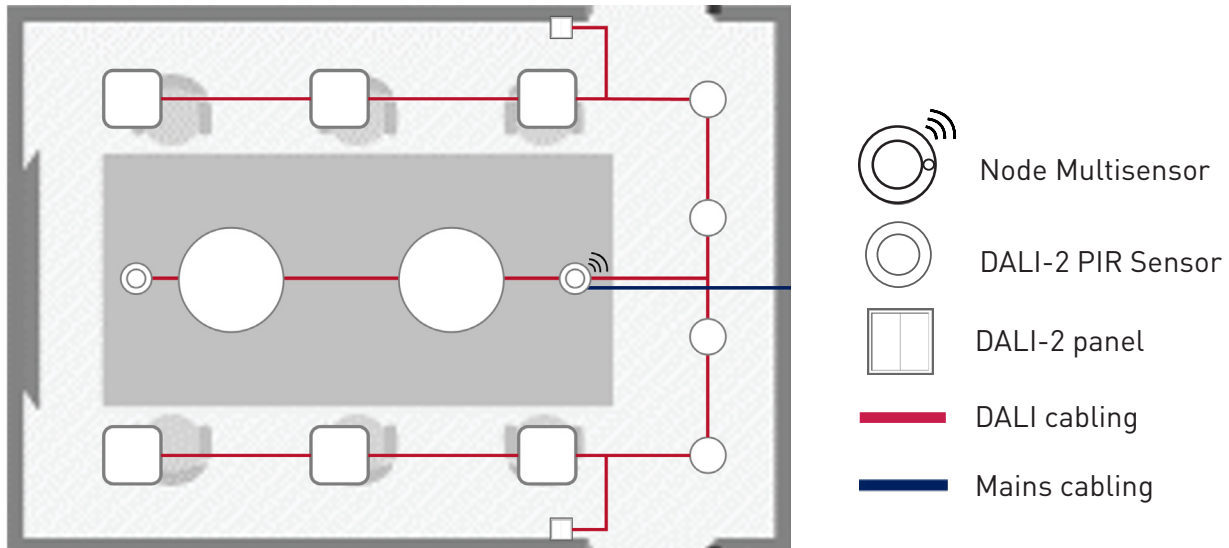
- Presence or absence detection and daylight savings
- Standard DALI luminaires
- Add DALI-2 panel for manual control
- Add corridor hold for additional comfort

OUT-OF-THE-BOX OPERATION	INTENSITY & DIMMING	GROUPS	SCENES	WALL PANELS	CORRIDOR HOLD	ABSENCE DETECTION
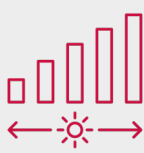
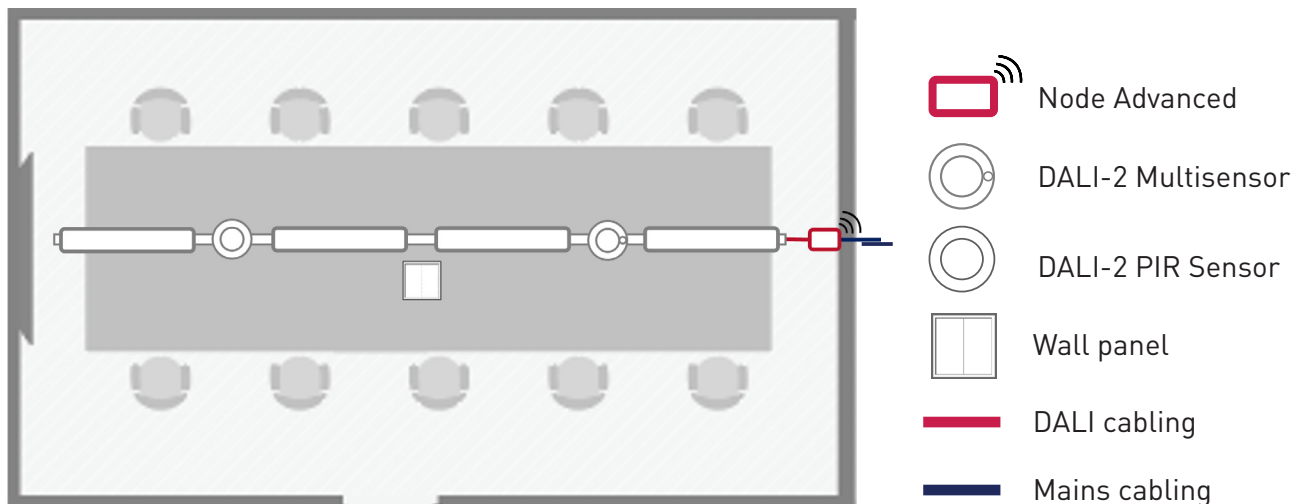## Helvar Products

5640 ActiveAhead Node Multisensor

320D2 PIR Sensor (DALI-2)

135WD2 Modular Panel (DALI-2)

5609 & DALI TRACK - **MEETING ROOM** C

- Node Advanced
- DALI-2 Multisensor
- DALI-2 PIR Sensor
- Wall panel
- DALI cabling
- Mains cabling

- Presence or absence detection and daylight savings
- DALI lighting track luminaires and Tracksensors
- Add group and wall panel for manual control
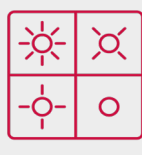- Add corridor hold for additional comfort.

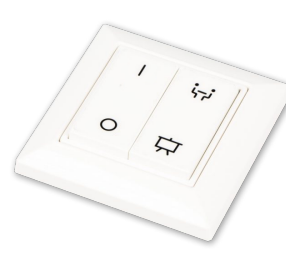| OUT-OF-THE-BOX OPERATION | INTENSITY & DIMMING | GROUPS | SCENES | WALL PANELS | CORRIDOR HOLD | ABSENCE DETECTION |

Helvar Products

5609 ActiveAhead Node Advanced

321D2TR Multisensor DALI-2, Track

320D2TR PIR Sensor DALI-2, Track

185W Wireless Control Panel

5609 - CLASSROOM
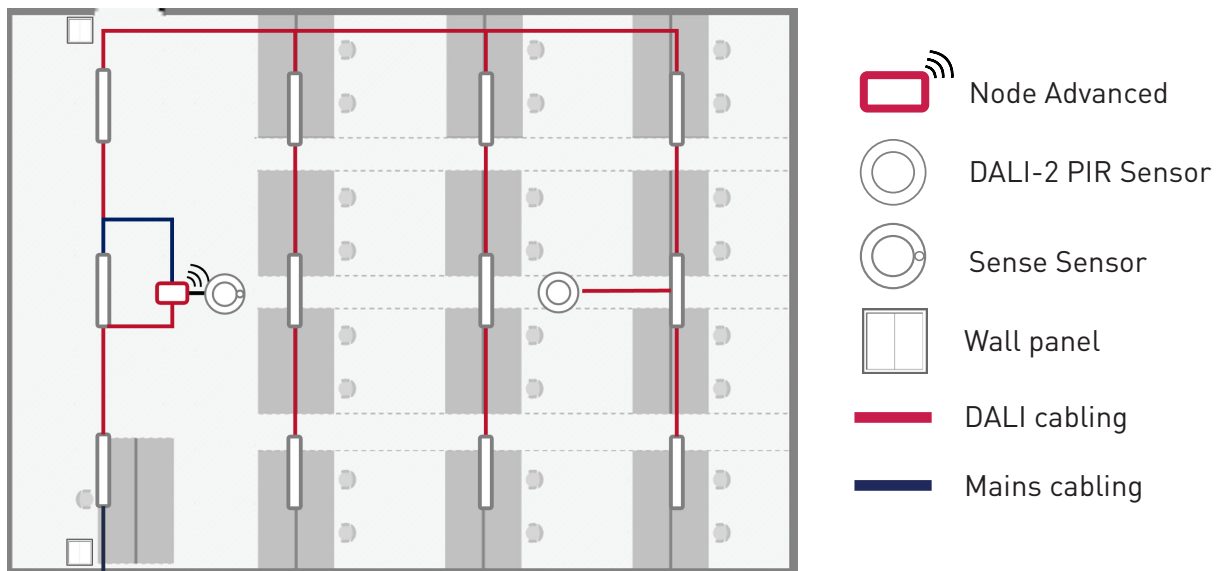
Legend:
- Node Advanced
- DALI-2 PIR Sensor
- Sense Sensor
- Wall panel
- DALI cabling
- Mains cabling

- Presence or absence detection and daylight savings
- Standard DALI luminaires
- Add group and wall panel for manual control
- Add corridor hold for additional comfort

INTENSITY & DIMMING	PRESENCE DETECTION	GROUPS	SCENES	WALL PANELS	CORRIDOR HOLD	ABSENCE DETECTION

Helvar Products

5609 ActiveAhead Node Advanced

320D2 PIR Sensor (DALI-2)

5630 ActiveAhead Sense

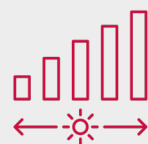**5692** ActiveAhead Sense Circular Holder
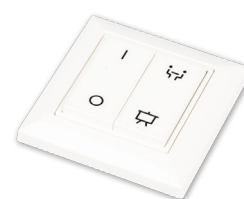
185W Wireless Control Panel

5609 - GROCERY STORE

Legend:
- Node Advanced
- (341) 341 Corridor Sensor
- DALI cabling
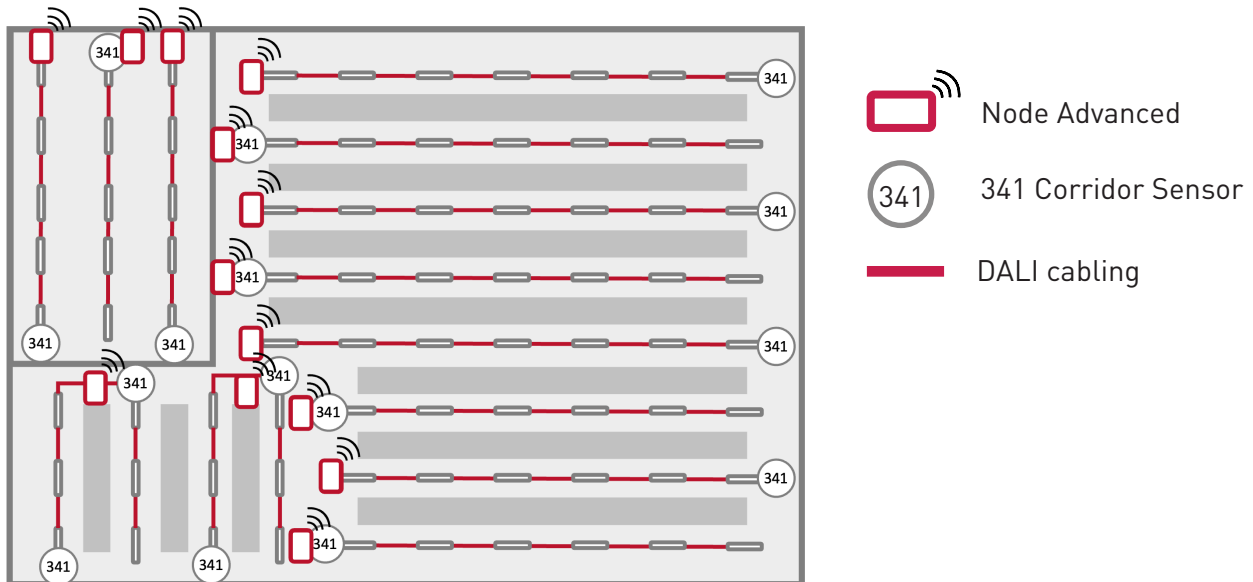
- Node Advanced powers and controls the DALI line
- Presence detection
- Add groups for comfort

INTENSITY & DIMMING

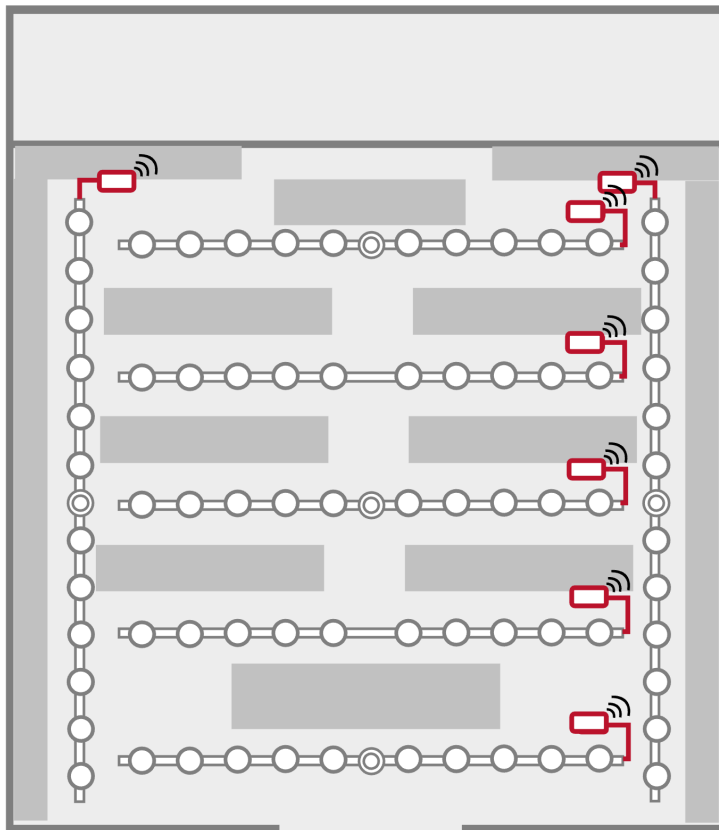PRESENCE DETECTION

GROUPS

Helvar Products
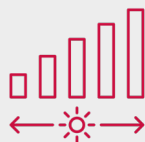
5609 ActiveAhead Node Advanced

341 Corridor sensor

5609 - RETAIL

Legend:

- Node Advanced
- DALI-2 Track Sensor
- DALI cabling
- DALI lighting track

- Node Advanced powers and controls the DALI line on the track
- Presence detection
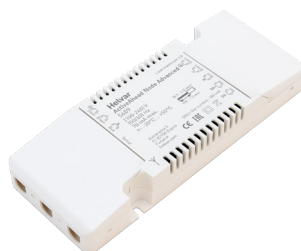- Add groups for comfort

INTENSITY & DIMMING
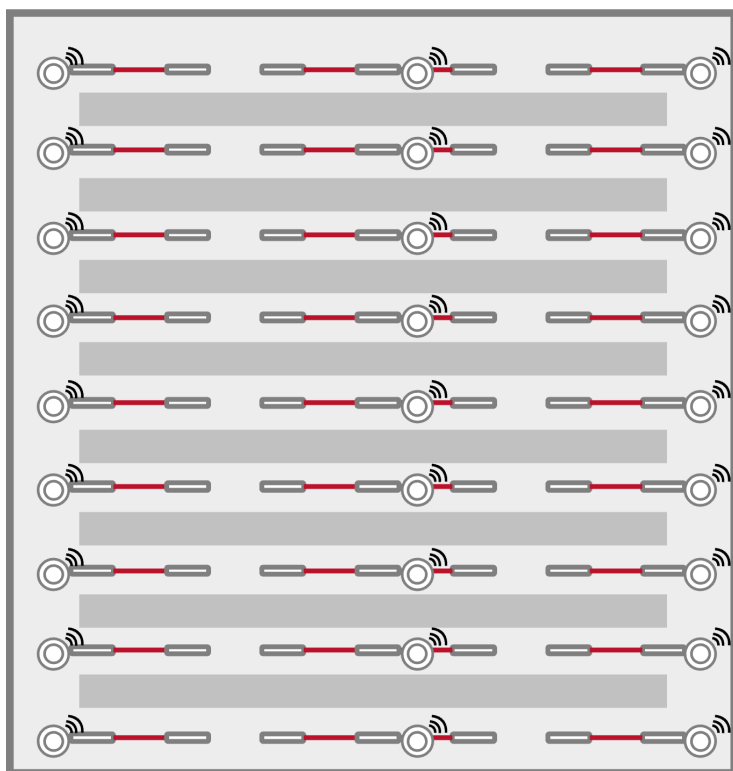
PRESENCE DETECTION

GROUPS

Helvar Products

5609 ActiveAhead
Node Advanced

320D2TR PIR Sensor
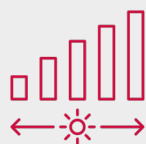DALI-2, Track

5641 - **WAREHOUSE**

⊙))) Node Multisensor High Bay

— DALI cabling

- Node Multisensor High Bay powers and controls the connected DALI line
- Presence detection
- Add groups for comfort

INTENSITY & DIMMING

PRESENCE DETECTION

GROUPS

Helvar Products

5641 ActiveAhead Node Multisensor High Bay

Ready to unlock the benefits of wireless and DALI-2 in your projects?
Whether you have an upcoming project or you just want to learn more, our team of experts is here to help.

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