

ActiveAhead Control Unit DA (5606)

A member of the ActiveAhead® family of wirelessly networked devices, the ActiveAhead Control Unit DA connects standard DALI luminaires to the ActiveAhead low-energy Bluetooth® radio mesh network.



Communicates with the other ActiveAhead generation 2018 devices, including other 5606 devices as well as 5605 ActiveAhead Control Units.

The connected units 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 Control Unit DA is equipped with strain relief, so it can be placed either inside or outside a DALI luminaire. Each unit has a DALI output with dual parallel connectors.

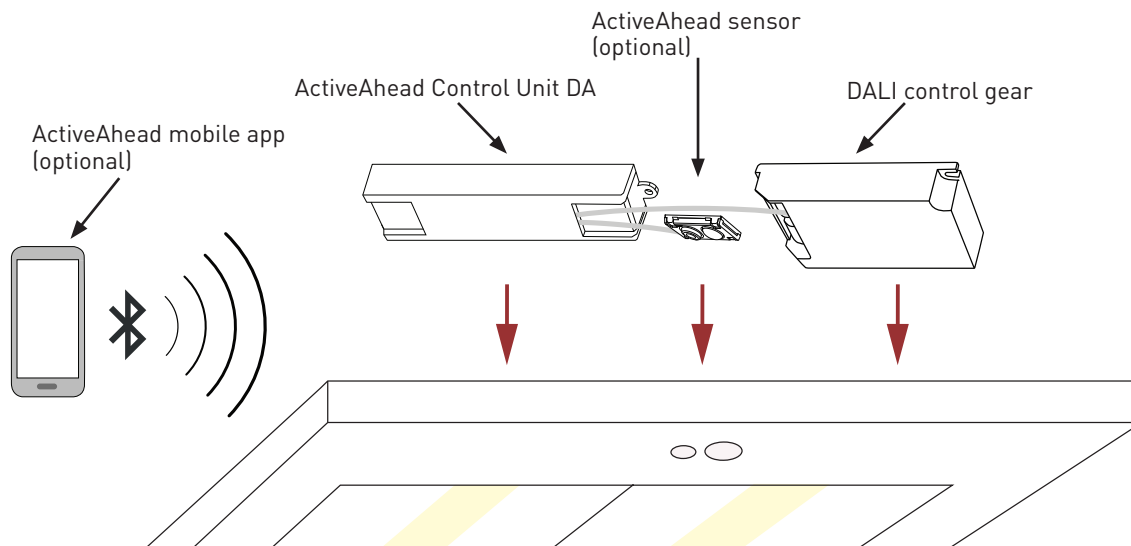
When it is fitted with an ActiveAhead compatible sensor, the ActiveAhead Control Unit DA makes DALI luminaires anticipate the most suitable lighting conditions right before they are needed. Thanks to its smart software algorithm, it is able to learn the movement patterns in its environment, to predict movement and to adjust the luminaire operation accordingly.

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



Key Features

- Continuous self-learning which adapts to the actual space usage.
- Converts DALI luminaires into wireless ActiveAhead generation 2018 luminaires.
- Suitable for Class I or Class II luminaires.
- Links to the ActiveAhead generation 2018 mesh network with other 5606 as well as 5605 ActiveAhead Control Unit devices.
- Compatible with the ActiveAhead range of sensors (3021 and 3022).
- Additional customisation via mobile app.
- Strain relief for easy installation outside a luminaire.
- Supports chaining of the mains power.
- *From Revision H onwards* - compatible with range of Helvar DALI system sensors (320, 321, 322 and 341). Support is limited to movement detections.
- *From Revision H onwards* - supports switch input.



Technical Data

Connections

DALI cable:	2 × 2-pole push-fit terminals Wire section: 0.5 mm ² – 1.5 mm ² solid or stranded.
Mains:	2 × 2-pole terminal block Wago 250-202 Wire section: 0.5 mm ² – 1.5 mm ² solid or stranded.
Sensor:	Active+ Sense connector

Electrical data

Input voltage:	100 VAC – 240 VAC
Starting voltage:	85 V
Input current:	Max. 40 mA
Input power:	Max. 2 W
Input frequency:	50 Hz – 60 Hz
Output current for DALI:	Max. 64 mA (additional DALI PSUs are not allowed on the line)
Sensor interface:	3.3 V

Mechanical data

Dimensions:	184 mm × 40 mm × 25.2 mm
Material (casing):	Polycarbonate
Colour:	White RAL 9016
Weight:	80 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® Low Energy (2.4 GHz)
Antenna pattern:	Omnidirectional

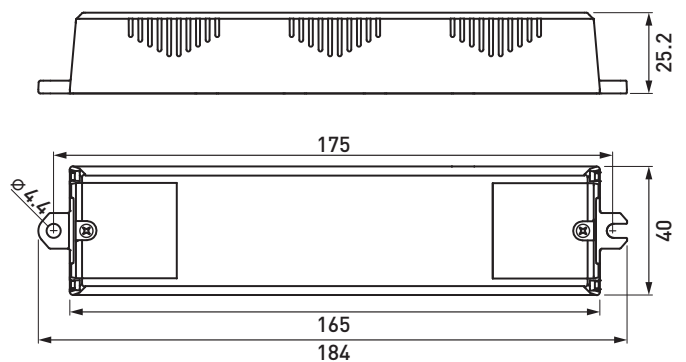
Operating conditions

Number of connected DALI loads:	Recommended 1-4; within the DALI output current limits more as long as max. distance between control units is followed and sensor coverage areas are considered
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.

Dimensions (mm)



Connections

