Helvar

5641 ActiveAhead Node Multisensor High Bay

ActiveAhead Node Multisensor High Bay is a member of the truly intelligent wireless lighting control solution Helvar ActiveAhead®. It connects standard DALI devices to the ActiveAhead system offering a flexible solution for high bay applications. Node Multisensor High Bay offers addressed local DALI control line which allows individually set light output levels for the connected DALI luminaires to suit the space and scene needs. In addition to the DALI luminaires, also relays, dimmers, additional DALI-2 sensors and DALI-2 wall panels can be connected to the DALI control line. It can also be used as a wireless sensor to control nearby other ActiveAhead nodes in the Bluetooth® mesh network.

The ActiveAhead Node Multisensor High Bay is mains powered and includes an inbuilt DALI power supply unit to power the local DALI control line. This makes the design and installation easy as wiring is simple. The unit can be surface mounted to a solid surface using the included surface mount box. Flush mounting accessories are available (sold separately) when unit is to be flush mounted to a ceiling using spring clips.

The connected ActiveAhead nodes share information, such as movement detections, through the mesh network, and a mobile app allows you to configure the system where needed. Thanks to its smart software algorithm, Helvar ActiveAhead is able to learn how the space is used to predict the connected luminaires 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 Multisensor High Bay will adapt to any future changes in its environment, such as a wall installation or removal.



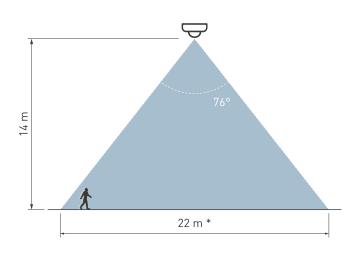
Key Features

- Scalable and easy to setup solution for industrial application
- Offers local addressed DALI control line
- Customisation via mobile app
- Quick and simple installation with mains power and inbuilt DALI power supply unit



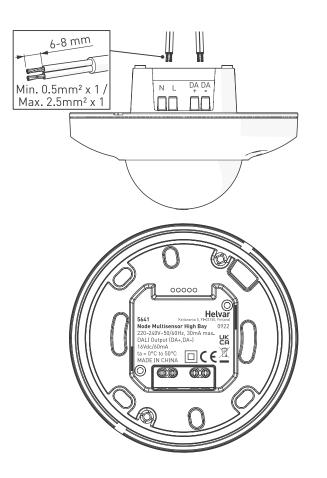
Detection

Detection Coverage

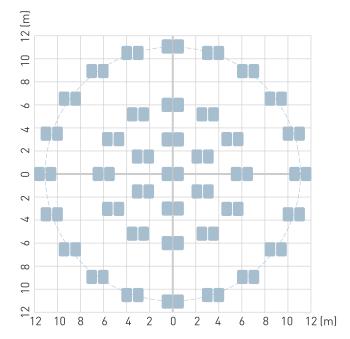


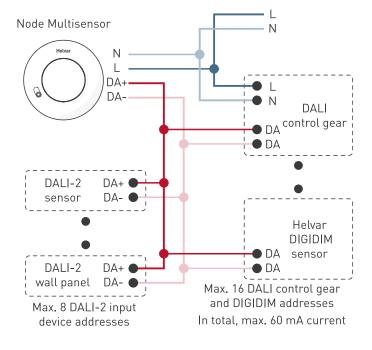
* = big movement

Connections



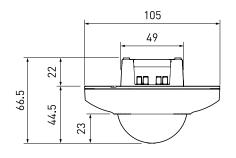
Detection Pattern



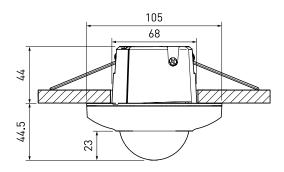




Dimensions (mm)



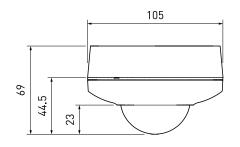
Standard



w/ Recess Spring Mount (accessory)

Technical Data

Operating and storage conditions	
per of connected devices:	Max. 16 DALI control gear and DIGIDIM addresses
	Max. 8 DALI-2 input device addresses
	In total, max. 60 mA current consumption
Note: The total number of connected devices is limited by the addresses and the DALI current consumption limitation.	
Note : There must be only one ActiveAhead Node on one DALI line.	
DALI cable length:	300 m
t <mark>ing temperature</mark> : The temperature diff	0 °C to +50 °C Ference between the detection
and the background ve humidity:	must be at least 4 °C. Max. 90 %, noncondensing
T Idd D	er of connected evices: The total number of dresses and the DAL There must be only on ne. ALI cable length: ing temperature: The temperature diff and the background



w/ Surface-Mounted Box (included)

Storage temperature:

-40 °C to +70 °C



Connections

Mains:	Wire section: 0.5–2.5 mm², solid or stranded	Dimensions:	105 × 66.5 mm
			105 x 69 mm with surface box
DALI cable:	Wire section: 0.5–2.5 mm², solid or stranded		105 x 88.5 mm with flush mount
		Material (casing):	Polycarbonate
Electrical data		Weight:	200 g / 260 g (with packaging)
Input voltage:	220–240 VAC, 50/60 Hz	Safety class:	Class II
Input current:	Max. 30 mA		IP20 with EU standard junction box or spring clip box
Input power:	Max. 3.5 W		IP54 with surface mounting box
Output current for DALI:	Typical 60 mA (Max. 250 mA)	Conformity and standards	
	Other DALI power supply units must not be present on the DALI line.		
		Conformity	CE
	DALI line.	Conformity:	VT CA
Isolation mains to DALI:	Basic isolation	EMC emission /	EN 55015 / EN 61547
Isolation mains to DALI: Sensors		•	
		EMC emission / immunity:	EN 55015 / EN 61547 EN 61347-1, EN 61347-2-11 EN 300 328, EN 301 489-1,
Sensors	Basic isolation	EMC emission / immunity: Safety:	EN 55015 / EN 61547 EN 61347-1, EN 61347-2-11 EN 300 328, EN 301 489-1, EN 301 489-17 Complies with WEEE, RoHS and
Sensors	Basic isolation Closed loop reflected light SW version 1.20 and older:	EMC emission / immunity: Safety: RED:	EN 55015 / EN 61547 EN 61347-1, EN 61347-2-11 EN 300 328, EN 301 489-1, EN 301 489-17
Sensors Light sensor: Presence detector: Max. recommended	Basic isolation Closed loop reflected light SW version 1.20 and older: For bright-out function Passive infrared (PIR) detects moving temperature	EMC emission / immunity: Safety: RED: Environment:	EN 55015 / EN 61547 EN 61347-1, EN 61347-2-11 EN 300 328, EN 301 489-1, EN 301 489-17 Complies with WEEE, RoHS and
Sensors Light sensor: Presence detector:	Basic isolation Closed loop reflected light SW version 1.20 and older: For bright-out function Passive infrared (PIR) detects moving temperature differences	EMC emission / immunity: Safety: RED: Environment: Order Codes	EN 55015 / EN 61547 EN 61347-1, EN 61347-2-11 EN 300 328, EN 301 489-1, EN 301 489-17 Complies with WEEE, RoHS and REACH directives.

Mechanical data

Wireless Connectivity

Frequency:	2.4 GHz	Accessories (sol	Accessories (sold separately):	
Technology:	Bluetooth® Mesh	5001	Recess Spring Mount	
Antenna Pattern:	Omnidirectional			
Max distance between Nodes:	15 m in free space			

mask.

Note: To ensure proper operation the mesh network must consist of a minimum 10 ActiveAhead Nodes.

5641 ActiveAhead Node Multisensor High Bay: Datasheet | Data is subject to change without notice.