Active+
Self-learning, lighting solution

Utilising 60-100 hours of automatic learning, Helvar's Active+ learns about the surrounding environment and detects changes in lighting conditions from other luminaires and light sources.

The Active+ LED driver and Active+ Sense both fit into a luminaire which can be installed as easily as a basic switching luminaire, having no physical or electrical connection to any other external lighting components such as control panels, dimmers or common sensors. The Active+ driver has an inbuilt power supply for the Active+ Sense which features a connection cable terminated with a keyed connector which enables total flexibility when mounting into the luminaire.

Luminaires fitted with the Active+ solution are ideal for refurbishment projects, as well as for new offices, corridors, open plan areas and storage areas. If the area becomes vacant, human presence isn't detected and the lighting isn't needed in the environment the Active+ LED driver and Active+ Sense send signals to the luminaire to go into energy saving mode. It dims the light smoothly so the change of lighting level doesn't disturb other people sitting or working nearby. In areas with windows energy is saved by daylight harvesting.

The Active+ functionality also prevents daylight sensors in luminaires in close proximity to each other from interacting and starting to malfunction (so called waving effect). Constant lumen output (CLO) functionality reduces initial over-illumination, and ensures that the light output level can be guaranteed during the whole life time of the luminaire.

With an optional Active+ Mobile app, the end user can easily change the light levels of individual luminaires if the automatic setup needs fine-tuning.

Active+ Sense

Active+ LED drivers

- Offices
- Corridors
- Refurbishment
- Open-plan areas
- Storage areas

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LED Drivers

	LL1x10-42 Active+	LC1x50 Active+	LL1x50 Active+	LL1x110 Active+
Control	Active+ automatic	Active+ automatic	Active+ automatic	Active+ automatic
Max output power	42 W	50 W	50 W	110 W
Product category	Adjustable I-OUT	Adjustable I-OUT	Adjustable I-OUT	Adjustable I-OUT
Output current	120 mA – 350 mA	1050 mA – 1400 mA	1050 mA – 1400 mA	350 mA – 700 mA
Output protection	Non-isolated, basic insulated	SELV < 60 V	SELV < 60 V	Non-isolated, basic insulated
Luminaire class	I	I, II, III	I, II, III	I
Type	Linear, Indoor	Compact, Indoor	Linear, Indoor	Linear, Indoor
Efficiency at max. load	0.93	0.88	0.88	0.95

Active+ Sense T3020

Connections

Active+: 80 cm flexible cable terminated with a four-way, 2 mm keyed connector

Note: If the sensor is connected to non-SELV control gear, the luminaire must be Class 1.

Dimensions (mm)

Mechanical data

Dimensions: 32.4 mm × 15.5 mm × 14.5 mm

Material (casing): Fire-retardant polycarbonate

IP Rating: IP30

Weight: 22g

Operating conditions

Ambient temperature: -20 °C to +50 °C

Note: The temperature difference between the detection target and the background must be at least 4 °C.

Relative humidity: Max. 90 %, noncondensing

Storage temperature: −40 °C to +80 °C

Conformity and standards

EMC emission: EN 55015

EMC immunity: EN 61547

Safety: EN 61347-2-11

Environment: Complies with RoHS directive.

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