

easy to use • energy efficient • out-of-box



iDim - effortless energy saving



Imagine the easiest lighting control solution ever. It is easy to install, use and integrate. It enables energy saving, it is intelligent and reliable. It has unique features that no one else in the market offers, yet is still affordable and fully compatible with the DALI standard. It provides a future proof solution that is powerful, flexible and cost effective. It's a compact luminaire based control solution for single room applications that is available to every luminaire manufacturer. And of course, it provides optimal lighting when and where needed.

iDim – Do you?

efficiency

effortless innovations

Easy way to green intelligence

In today's world efficiency is everything. New rules and regulations are guiding us towards sustainable light sources, energy efficient systems and components. Efficiency in energy consumption not only saves our environment but also reduces overall cost of ownership. Optimal lighting also contributes towards improved and safe working and studying conditions.

The Helvar iDim concept offers a unique solution for different applications where energy efficiency is the key driver. High flexibility combined with effortless installation and ease of use satisfy the needs of all stakeholders involved: the lighting designers, installers, facility managers, building owners and end users.



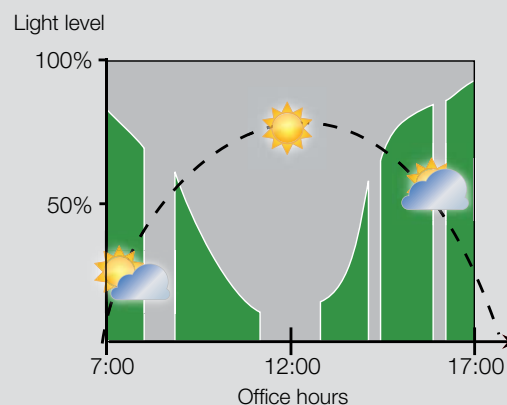
Towards energy saving

In the EU area on average 14% of electricity is consumed on lighting. Almost half of it is consumed in Commercial lighting, where the energy saving potential is tremendous.

If the following techniques are used, it is possible to create energy savings of up 80%:

- Digital T5 electronic ballasts rather than traditional magnetic T8 ones.
- Presence detection – only switching on when the space is occupied.
- Constant Light – maintaining a preset light level by using dimmable lamps to top up natural light only as needed

The iDim concept offers you this possibility with an easy and fully automatic out-of-box solution.



- Consumed energy with standard non-dimmable ballast
- Consumed energy when using iDim concept

Easy intelligence in luminaires

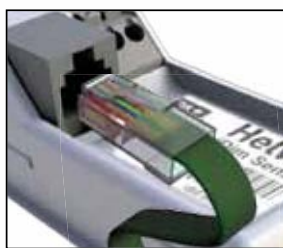
The iDim intelligence is literally the sum of its parts. Intelligent components iDim Sense, iDim Solo and EL-iDim ballast with the iDim Remote can turn every luminaire into a smart solution providing optimal lighting and energy efficiency. Designed for the future, all components meet the demanding legislations.

Click-and-go!

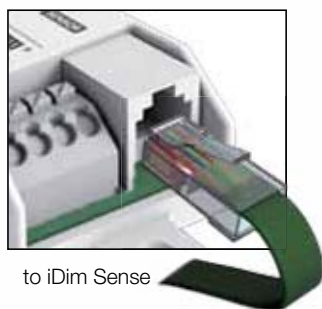
Simple clip-on connectors make the assembly into the luminaire quick and easy; just click-and-go!

1. Click the iDim Sense into the luminaire
2. Click the iDim Sense cable* into the iDim Solo unit
3. Turn the iDim Sense mode selector and choose the right application mode

* Available Helvar cable, part number 50630, is 50cm long.



to iDim Solo



to iDim Sense



Select the mode



The passive infrared sensor (PIR) is a presence detector that reacts on movements. Every mode has default delay settings that can be adjusted if needed. A clip-on PIR restrictor ensures the correct coverage area. The PIR walk-in test allows to quickly test the correct system functioning.



The constant light sensor (CL) regulates the light to its target level depending on the ambient light. The default target light levels, timing and offset levels can be adjusted if desired.



The infrared receiver (IR) in the iDim Sense allows for advanced programming, manual user control, test functions and personal desktop control.



Fixed Light (FL) keeps the lights on at a fixed default light level during operation. If desired the fixed light levels may be manually adjusted. When presence is no longer detected then the fixed light will be automatically switched off after a set transition time.

Optional PIR Extension Sensor

The iDim Sense and the Helvar 312 Multisensor can be used to extend the PIR coverage of a standalone iDim system by simply adding them into the network by their DALI terminals and mounting them at a suitable distance away.





efficiency **effortless** innovations

Select the mode

The luminaire based iDim concept provides 6 out-of-box application modes that are easy to select just by rotating the Mode Selector on the iDim Sense. The modes are designed to fulfil the needs for easy-to-use, energy saving lighting control. The basic functions are pre-programmed and are fully adjustable to meet all requirements.

Classroom

Optimal lighting and maximum energy saving are automatically achieved thanks to the intelligent technology. iDim adjusts the lights depending on presence detection and ambient light. Out-of-box features can be easily customised to meet different needs.



+
Offset



ON: Manual
OFF: Auto



15 min. → 20%
1 min. → Off



Bright
out



Single office

The simple out-of-box functionality responds to area occupation and ambient light always producing the right light. Automatic features enable energy saving and user comfort. Advanced features as individual control and custom settings are possible with iDim Remote, PC-interface and DIGIDIM modular panels.



+
Offset



ON: Auto
OFF: Auto



15 min. → 20%
1 min. → Off



Bright
out



Open plan office

This mode keeps the lights on only when and where needed. It is an energy and cost efficient application creating a safe and convenient working environment for everyone at the same time. All advanced features are available for custom fine tuning.



+
Offset



ON: Auto
OFF: Auto



15 min. → 20%
60 min. → Off



Bright
out





Corridor link

Wherever occupancy is detected, the whole corridor lights up at once. Multiple sections / sensors can be interlinked together creating a powerful solution that can light up a corridor of any length.

FL
PIR
 ON: Auto
 OFF: Auto

5 min. → 20%
 30 min. → Off

Bright out



Corridor hold

This unique application for single offices connects them with the corridor link mode. Whenever the offices are occupied, the corridor is held lit. The corridor hold is a fully automatic function that promotes energy savings as well as safety.

CL
PIR
 ON: Auto
 OFF: Auto

15 min. → 20%
 1 min. → Off

Bright out



Meeting room / Classroom

This mode takes care that the lights are switched on only when needed. You can switch the lights both on and off manually or let the system take care of the switching off. The constant light feature adjusts the right lighting and scene control is possible with iDim Remote and DIGIDIM modular panels.

CL
PIR
 ON: Manual
 OFF: Auto

15 min. → 20%
 1 min. → Off

Bright out

CL (+ Offset) **FL** Fixed light **PIR** PIR presence Lights On / Off PIR absence Occupancy timeout → light level Transition timeout → Off Lights to 10% when enough daylight

efficiency effortless innovations

iDim Sense 316

This genius DALI sensor includes multiple features all in a very compact package. It has 6 pre-programmed operational modes for different lighting control applications. It features PIR, CL, IR as well as a simple rotating Mode Selector.

- *Stand-alone Mode Selector*
- *Easy click mounting from outside luminaire*
- *Interchangeable skins*
- *Clip-on PIR restrictor*



iDim Sense 315

The 315 iDim sensor performs all the functions of the 316 plus is able to act as a networked DALI unit, connected to Helvar's DIGIDIM 910 and Imagine 920 router systems.

- *System (network) Toolbox & Router compatible*

iDim Solo 403

iDim Solo is a compact and versatile interface module for use inside or outside the luminaire. It is a powerful unit that enables easy and quick wiring for both alternatives; iDim stand-alone and networked lighting systems.

- *DALI power supply, 96mA (total)*
- *Switch Control inputs x 2*
- *DALI outputs x 2*
- *iDim Sense connection (RJ-style)*
- *Mains connection input*



iDim Remote 304

The iDim Concept is a pre-programmed lighting system, though there may be need to control or modify it manually. The iDim Remote is a versatile remote control providing the following functionalities:

- *Configuration of target light levels*
- *Advanced programming (upload settings via PC + "zap function")*
- *Graphical PC user interface*
- *Desktop holder / wall mount holder / 50cm Helvar cable*

The 303 DIGIDIM Remote can also be used with iDim systems for basic operations such as scene recall / store, light level modification and special function triggering.



Who are Helvar?

Helvar

Helvar develops, manufactures, and markets ballasts and lighting electronics for the luminaire industry and other customers specialising in lighting.

Helvar has a long tradition as a forerunner in its field, and always utilises the latest technology to ensure that its products are of high quality, have first-class technical properties and conform to local regulations.

Helvar focuses on controllable and non-controllable electronic ballasts, lighting control products and magnetic ballasts, thus offering its customers a tailored products and solution portfolio.

Helvar has its headquarters and ballast competence centre in Karkkila, Finland. The lighting control system competence centre is located in London, England. Helvar has its own sales offices and representatives all over the world.

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Due to a policy of continuous improvement, Helvar reserve the right to alter specifications without notice at anytime.

Patent pending.