

LED PERCEPTO

THE GREEN LIGHT



Schröder





CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66 (*)
Control gear tightness level:	IP 66 (*)
Impact resistance:	without motion detector IK 08 (**)
	with motion detector IK 07 (**)
Nominal voltage:	120-277V
Electrical class:	I or II (*)
Installation height:	3 - 8m
Materials:	Body: Galvanised steel
	Heat sink: Aluminium
	Protector: Thermally tempered glass
Colour:	White RAL 9003 - other RAL colours on request

(*) according to IEC - EN 60598

(**) according to IEC - EN 62262

APPLICATIONS

- Petrol stations
- Drop off areas
- Stadium halls
- Canopies
- Industrial warehouses
- Underpasses
- Underground car parks

KEY ADVANTAGES

- Flexible LED solution for downlighting
- Maximised savings in energy and maintenance costs
- Separated gear box and optical unit: excellent thermal management
- Operating temperatures from -25° up to 40°C
- Easy installation: one technician needed to mount the luminaire
- Symmetric and asymmetric photometric solutions
- Integrated dimming with motion detection system
- Flexibility: easy dimming profile adjustment via a remote control
- ThermiX®: maintain performance over time
- Easy connection: supplied pre-wired (0,5 m) with a connector
- FutureProof: photometric engine and control gear are easy to replace on-site
- Durable and recyclable materials

DOWNLIGHTING IN AN EFFICIENT AND COST-EFFECTIVE MANNER

The Percepto luminaire was developed to offer optimised photometrical performance with a minimum total cost of ownership for downlighting applications.

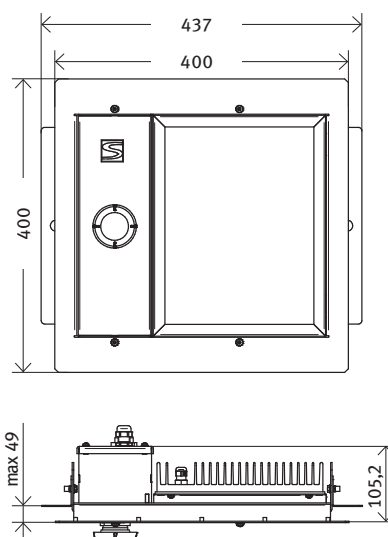
An integrated motion detector combined with a dimming scenario guarantees the required lighting levels to ensure safety and comfort while generating a dramatic reduction in energy consumption. The Percepto can achieve energy savings of up to 80% compared to luminaires fitted with traditional light sources. This performance lowers its payback to less than 5 years. It is therefore financially more interesting to install new Percepto luminaires rather than replacing traditional lamps in existing fittings. Available in a recessed or surface mounted version. The Percepto is equipped with an LED photometric engine fitted with reflectors for symmetrical or asymmetrical lighting. Its design with a separated gear unit and optical compartment guarantees perfect thermal behaviour to maintain performance over time. It also makes the mounting operations much easier.

The Percepto is the perfect tool for downlighting applications at a height from 3 to 8m.

OPTIONS

- Autonomous dimming with motion detection
- Neutral or warm white LEDs
- Surge protection 10kV

DIMENSIONS



ENERGY SAVINGS UP TO 80%

The Percepto luminaire integrates the latest cutting edge solutions. The combination of LED technology and an integrated dimming system makes it possible to achieve energy savings that can reach up to 80% compared with luminaires fitted with traditional light sources.

With this very favourable energy balance, the Percepto luminaire lowers the payback time to less than 5 years. It also contributes to minimising the carbon footprint and to a responsible use of energy.

MOTION DETECTION TO AVOID UNNECESSARY LIGHTING

When spaces are not being used, lighting at full power is a pure waste of money. To avoid unnecessary lighting, the Percepto luminaire provides dimming scenarios and light-on-demand features to adapt the lighting levels to the real needs of the place and the moment. Most of the time, the Percepto can be dimmed to a minimum. Thanks to its integrated movement detection sensor, the Percepto can automatically raise the lighting levels. This light-on-demand option ensures the safety and the quality of the user experience while saving energy.

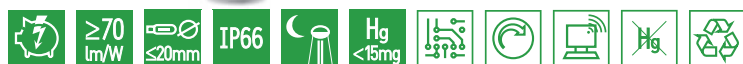
A REMOTE CONTROL FOR AN EASY AND FAST SET-UP

The lighting levels and the dimming profile of the Percepto can easily be adjusted by remote control so there is no need to open the luminaire or carry out any interventions. This enables the lighting scenario to be adapted at any time according to the number of people using the area or any major changes.

FUTUREPROOF

Thanks to the separated gear and optical compartments, the installation is very easy. This design also means that either the gear or the optical unit can be replaced to take advantage of future technological developments. At any stage during the service life, the Percepto can be equipped with a completely new optical unit. Using state-of-the-art technology, the Percepto has been designed to fulfill this FutureProof concept.

PERCEPTO THE GREEN LIGHT



For more details and to follow the progress of the product configurations, please visit our website.



PERCEPTO



APPLICATIONS

The Percepto luminaire was specifically developed for downlighting applications such as petrol stations, drop off areas, stadium halls, canopies, industrial warehouses, underpasses and underground car parks. The range of lighting distributions including wide, narrow, symmetrical and asymmetrical beams ensures that the specific requirements of each application are met.



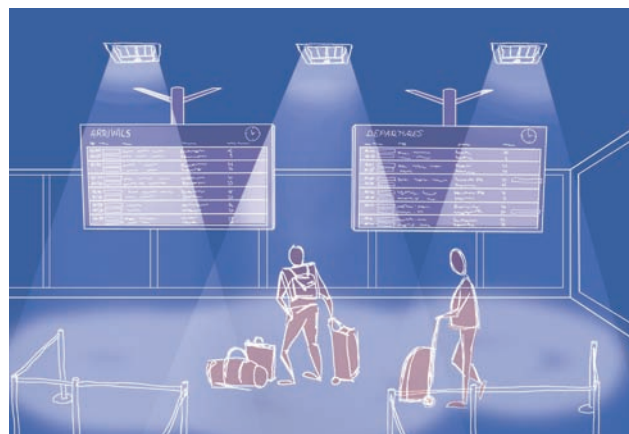
- "Petrol station"



- "Drop off area"



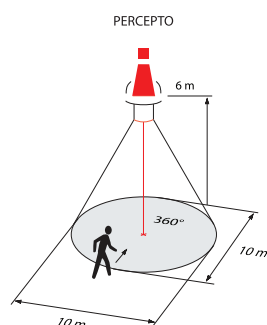
- "Shopping mall canopy"



- "Train station lobby"

DETECTION ZONE

The Percepto incorporates a motion sensor that uses a specific lens to determine a detection zone. The standard lens is suitable for most applications. As an option, lenses can be provided for special needs.



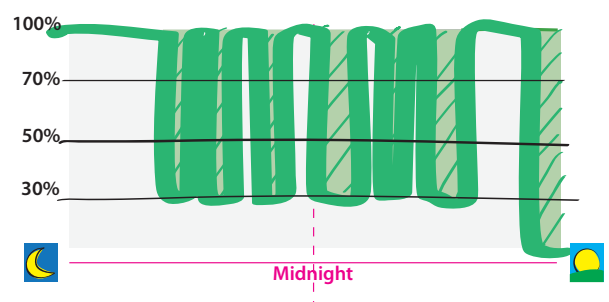
DIMMING WITH MOTION DETECTION

To adapt lighting to the real needs, the Percepto incorporates a motion sensor unit. For any given installation, each Percepto can be programmed with its own settings to provide the best scenario. By combining dimming and motion detection, the Percepto offers the perfect solution for providing safety and comfort for the users as well as significant energy savings.



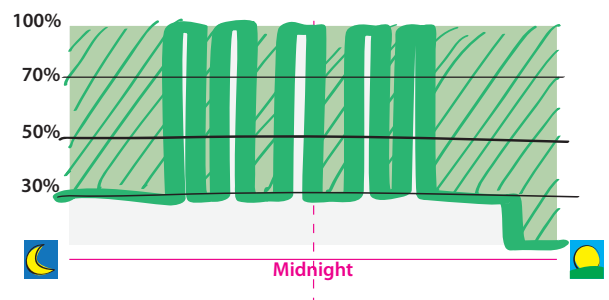
COMFORT SCENARIO

Driven by an astroclock or a photocell, the installation switches on at full power at night, ensuring optimal visibility for the area. After rush hour, the output decreases to 30%. When the sensor detects a presence, the output automatically increases (within 2 seconds) to maximal output and goes back to 30% after the last movement has been detected. Dimming and detection scenarios (hold time, output levels, schedule...) are programmed in the factory but can be adapted any time via the remote control.



MAXIMUM SAVINGS SCENARIO

Driven by an astroclock or a photocell, the installation switches on with a 30% output at night offering maximum energy savings. When the sensor detects a presence, the output automatically increases (within 2 seconds) to maximal output and decreases to 30% after the last movement has been detected. Dimming and detection scenarios (hold time, output levels, schedule...) are programmed in the factory but can be adapted any time via the remote control.



PHOTOMETRY

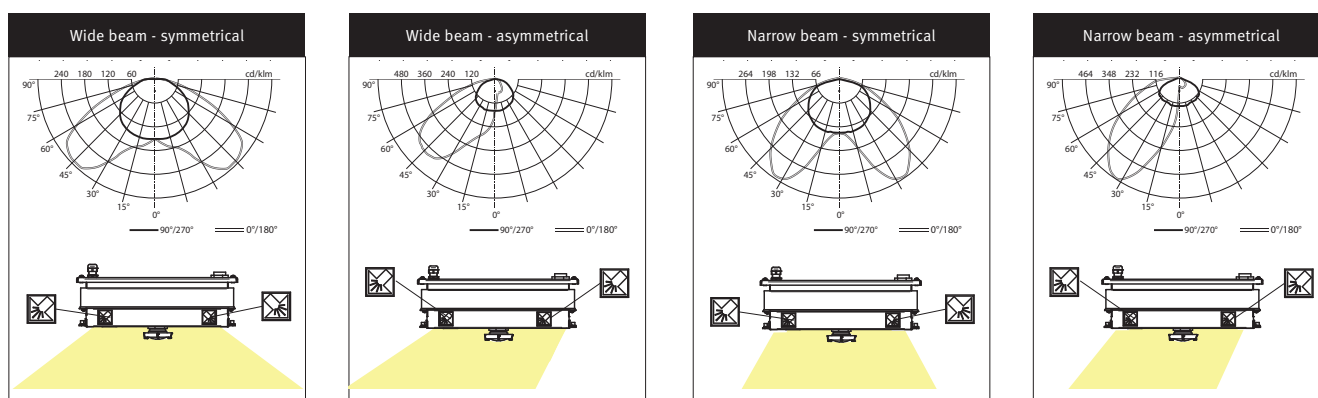
With a colour rendering index greater than 70 ($CRI \geq 70$), the Percepto diffuses a gentle white light that provides excellent colour recognition. This means that any on-site branding is not impaired by the light and that users can easily identify and use devices in the surrounding environment (sign posts, credit cards, Smartphone's, tablets, etc.).

Percepto				Lifetime residual flux @ t_a 25°C
Number of LEDs	Cool white (5000K)	22 LEDs	44 LEDs	@100.000h
Current: 500mA	Nominal flux (lm)*	-	8400	90%
	Power consumption (W)	-	75	
Current: 700mA	Nominal flux (lm)*	5500	11000	
	Power consumption (W)	53	105	

(*) The nominal flux is an indicative LED flux @ t_a 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.

Nominal flux depends on the type of LED in use and is likely to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website.

LIGHT DISTRIBUTIONS



MOUNTING

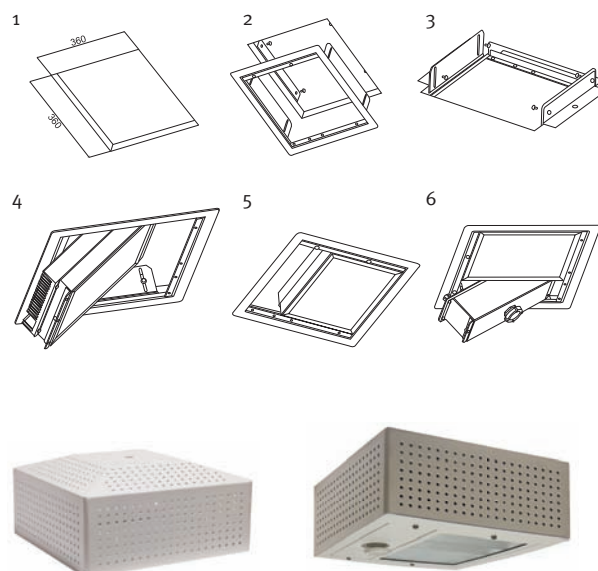
The Percepto is designed for easy installation thanks to its separated optical and gear compartments.

RECESSED VERSION

- Insert the frame into the roof (see drawings 1, 2, 3)
- Attach the input connector (white) to the input cable
- Place the optical compartment into the frame (4, 5)
- Plug the optical unit and the mains cable into the gear box, insert into the frame and close

SURFACE MOUNTED VERSION

- Remove the side cover of the housing
- Attach the housing to the ceiling (4 M6 screws)
- Attach the input connector to the input cable
- Place the optical compartment into the housing
- Plug the optical unit and mains to the gear box, insert into the frame and close
- Close the side cover (2 M4 screws)







Solutions



Well-being



Safety



Sustainability