Pelsan

SMART CARPARK LIGHTING

LARGO OPTIMA

www.**pelsan**.com.tr

Pelsan

SMART CARPARK LIGHTING

LARGO OPTIMA

Smart Carpark Lighting

The Most Profitable Investment

LARGO OPTIMA

45% Less **Energy Consumption**

Largo brings lighting to full performance only when needed, thanks to its integrated sensor design. With Optima standby mode, annual energy consumption is significantly reduced. This delivers an efficient and sustainable solution that helps optimize operating costs.

Features	Standard Luminaire	Largo Optima
Power	35W	35W
Daily Work	12 Hours	12 Hours
Usage Intensity	100%	50%
Annual Energy Consumption	**153,3 kWh**	**84,3 kWh**
Annual Energy Cost	**26,06$**	**14,33$**
Annual Savings	-	**11,73$**

The Payback Period is 11 Months

With its smart sensor, Largo Optima achieves a payback period of as little as 11 months. Thus, the system **pays for itself in a short time** and contributes directly to operational profit in the following years. With its long lifespan and **low operating expenses,** Largo Optima reliably offers a sustainable cost advantage.

Pelsan

SMART CARPARK LIGHTING

Largo's
Sensor & Control Integrations

Standby Mode

The standby function reduces the luminaire's light level to **10% or 30%** when no motion is detected, allowing it to operate in a low-output mode. This mode maintains the **minimum required illumination** for safety in fully enclosed areas while significantly reducing energy consumption. When motion is detected, the luminaire quickly returns to full brightness. In this way, both **user comfort** and **operational efficiency** are ensured simultaneously.

Standby Mode (S7)	Lighting Level
ON	%10
OFF	%30

Lux Setting – Daylight-Sensitive Lighting

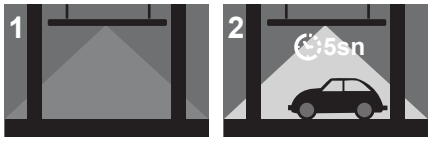
The lux setting allows the sensor to measure the ambient light level and prevents the luminaire from activating when natural light is sufficient. This ensures that energy is consumed only when truly needed. In areas with abundant daylight—such as **parking entrances, spaces near windows, or semi-open transition zones**—this feature provides a significant **cost advantage.** By continuously analyzing the ambient light, the system automatically prevents unnecessary energy consumption.

S5	S6	Daylight Sensor
ON	ON	50 lux
ON	OFF	25 lux
OFF	ON	10 lux
OFF	OFF	Disabled

Time Adjustment Function

The sensor features an adjustable time function that determines how long the luminaire will operate at 100% output after motion is detected. The standard duration is **5 seconds,** but this period can be adjusted according to the **intensity of the environment.** In high-traffic areas, the waiting time can be set up to **600 seconds,** while in low-traffic areas, **shorter durations** can be selected to maximize energy savings. This allows businesses to easily define the **ideal lighting behavior** based on their own usage patterns.

S3	S4	Switch off delay
ON	ON	5s
ON	OFF	90s
OFF	ON	300s
OFF	OFF	600s



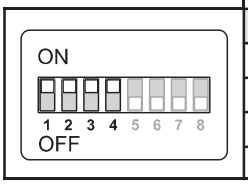
%30 Light **%100 Light**

Largo's
Sensor & Control Integrations

HF Radar Sensor – Wide Detection Range

HF (High Frequency) radar sensor is one of the most sensitive and reliable technologies in motion detection. Depending on the ceiling height, it provides **360° detection up to 6 meters,** allowing the light to switch on before the user enters the area. This ensures a **seamless and comfortable transition experience** throughout the car park area.

The sensor's **standard setting is a 100% detection area.** However, the detection level can be reduced to **75%, 50%, or 25%**. In addition, the radar sensor is not affected by obstacles such as walls, glass, or smoke, ensuring **stable performance under all conditions.**



Detection Area		
Pin 1	**Pin 2**	**Sensitivity**
ON	ON	100% (default)
ON	OFF	75%
OFF	ON	50%
OFF	OFF	25%

Through Wiring Option – Easy Serial Connection

Through wiring allows internal cable pass-through from one luminaire to another. This significantly speeds up the installation process in linear applications such as corridors and enables a cleaner, more organized cabling infrastructure. **Installers can easily supply multiple luminaires from the same electrical line.** As a result, both labor time and overall installation cost are noticeably reduced.

Pelsan

SMART CAR PARK LIGHTING

Mechanical Specifications

Body	Polycarbonate
IP Rating	IP65
IK Rating	IK08
Mounting Type	Cable Tray / Surface Mounted
Cable Gland	PG11
Weight (kg)	2.4 kg
RAL Code	9045
Dimensions (mm)	1150×80×75 mm

Electrical Specifications

Power	34W
LED Chip & Driver	Samsung – European Origin Driver
LED Chip Lifetime	L70 Tc@105°C >102.000
LED Driver Lifetime	100.000h.
Input Voltage	220-240Vac
Frequency	50-60Hz
Power Factor	>0,98
Operating Temperature	-20°C / +45°C
Class	I

Optical Specifications

Luminous Flux	4420lm
Efficacy	130lm/W
Light Source	Mid Power LED
Diffuser	PC
CRI	>80
Color Temperature	3000K / 4000K / 6500K

Options

DALI	Suitable
Radar Sensor	Suitable
Through Wiring	Suitable
Emergency Kit	Suitable

Pelsan

SMART CAR PARK LIGHTING

Pelsan

The single address for all your lighting needs

www.**pelsan**.com.tr

info@pelsan.com.tr | export@pelsan.com.tr

FACTORY
Çerkeşli O.S.B.
İmes 5. Cadde No:12
Dilovası / Kocaeli - TÜRKİYE

P : +9(0850) 460 75 76
F : +9(0216) 364 60 15

/PelsanAydinlatma | pelsan-aydinlatma | pelsan aydınlatma | /pelsanaydinlatma | /PelsanLight