APL Solar
APL Solar Active

PEDESTRIAN CROSSING LIGHTING SYSTEMS

AT NIGHT AND IN POOR VISIBILITY HOURS, THE **PEDESTRIAN CROSSINGS** MUST BE PROPERLY ILLUMINATED AND SIGNALED:

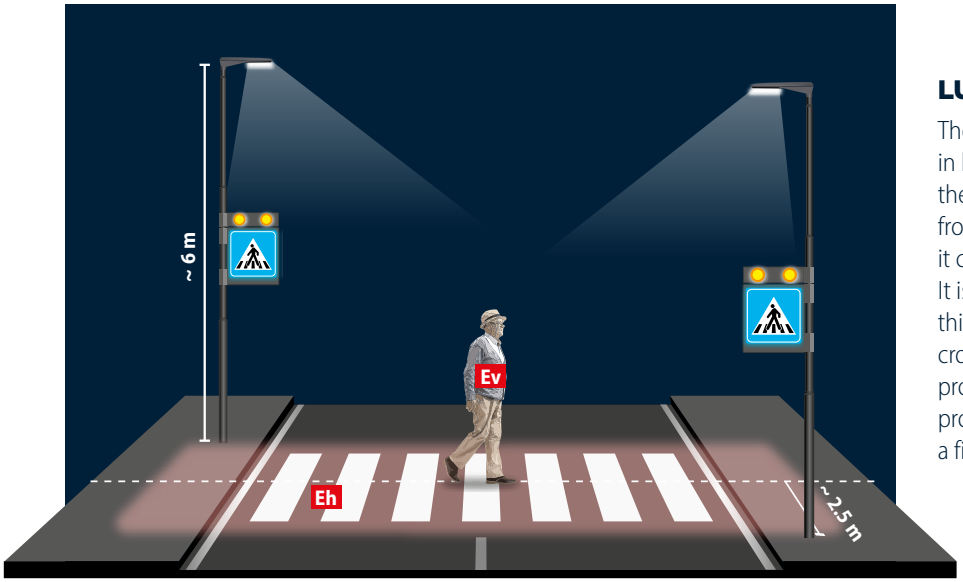
SIGNAL

using LED flashers certified according to **EN 12352** and LED backlit signs according to **EN 12899**.

ILLUMINATE

an **horizontal plan**, highlighting the crossing with a minimum recommended light level of 100 lux (average) **and a vertical plan**, lighting perfectly the body of pedestrians making them visible, starting from the waiting area, extremely important factor to prevent accidents on crossings.

The LED luminaires **Talos G and Talos N** have been designed with a dedicated optic specifically to illuminate crossings, creating a positive contrast between the pedestrian and the surrounding environment, producing a very **high vertical illumination** level according to **EN13201**.



LUMINOUS FLUX [LUMEN]

The luminous flux is measured in lumens and represents the quantity of light produced from a fixture, hence it can't be measured on a point or surface. It is a task of the optics to distribute this light properly on the crossing. For instance, a light fixture producing 15,000 lm, may provide less light on the crossing of a fixture producing 12,000 lm.

ILLUMINANCE [LUX]

The illuminance is the quantity of light measurable on a plan of the crossing. It is measured in lux and in most of the cases the determining factor is the average illuminance and the overall uniformity (ratio between min lux and avg lux).

HORIZONTAL ILLUMINANCE EH [LUX]

Is the quantity of light measured on the horizontal plan [Eh] of the crossing. The high level achievable and the super concentrated beam allow an unmatched visibility and ease of **identification from distance of the crossing**.

VERTICAL ILLUMINANCE EV [LUX]

Is the quantity of light measured on the vertical plan [Ev] of the crossing. The high level achievable allows the **maximum visibility of pedestrians**, creating a positive contrast with the surrounding environment.

APL SOLAR

APL Solar combines the technological advantages of our APL solutions with the need to install such **systems in areas not covered by the AC grid**.

SYSTEM COMPONENTS

LED luminaires

Talos N

LEDBox

4 projectors
Basic 102

Control unit

APL Solar

APL Solar Active

APL Solar Active activation devices

Sensor and push-button

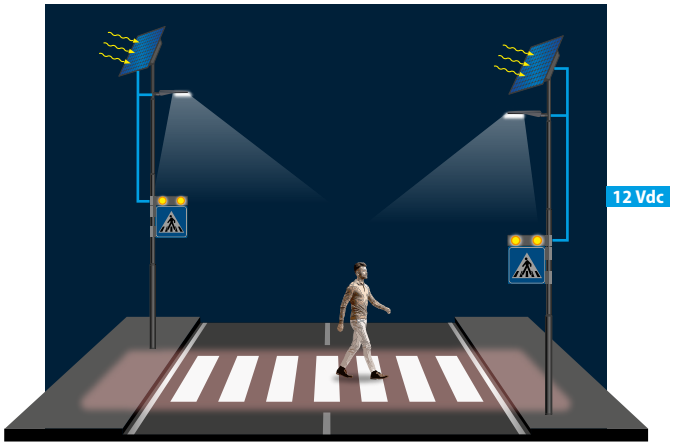
Touch-button

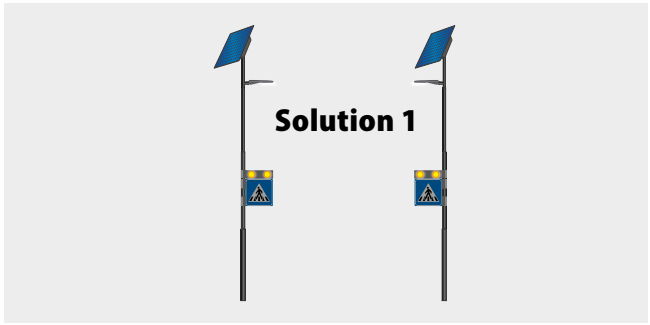
APL SOLAR

Even if with lower power comparing to AC APL (APL Classic and APL Smart), the APL SOLAR (with Talos N) can guarantee sufficient **horizontal and vertical illuminace** levels in compliance with the **EN 13201** and a good warning system thanks to the LED warning lights certified and approved according to **EN 12352**.

In the **Photovoltaic Kit** battery and charging regulator are integrated with the PV module. In this way we can avoid to use an external box.

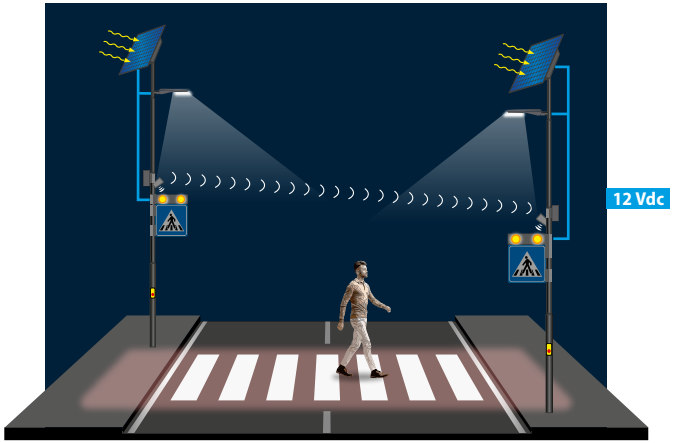
Peak power **190 W**.





APL SOLAR ACTIVE

- Lighting is activated automatically at night to allow a basic safety level and makes the crossing visible to drivers and pedestrians.
- The LED flashers are activated by **push button or motion sensor**. A wireless connection activates immediately the flashers of the opposite side



TALOS N

LED luminaires with dedicated double asymmetric optic targeting the highest classes **EV** of the **EN13201**.

Compliance	**EN13201**
LED optic	**Asymmetric L -R** Specific for pedestrian crossing
Input voltage	**12 VDC**
Power cons.	**19 W**
Material	**Die-cast aluminum SUPERCAST®**
Mounting	**Ø60**
Dimensions	**500 x 260 x 195 mm**

LEDBOX BASIC 102

LEDBoxes are devices with certified LED projectors to be combined with our backlit to increase visibility of the pedestrian crossing especially during the daytime.

Certification	**EN12352 - L2H**	
LED colour	🟡	Basic 102 x 4 (double side)
Input voltage	**12 VDC**	
Power cons.	**15 W**	
Fixing	Pole	**Ø60 - Ø90** **Band-it**
Box dimensions	**600 x 160 x 60 mm**	

SENSOR AND PUSH-BUTTON

Activation devices. Sensor and buttons make the system interactive and safer.

Certification	CE
Input voltage	**12 VDC**

CONTROL UNITS AND POWER SUPPLY

Only for APL Solar Active

PHOTOVOLTAIC KIT

The battery and the charging regulator are **integrated with the PV module**.
In this way we can avoid to use an external box.

Peak power: 190 W
Battery: 90 Ah
Output voltage: 12 V
Mounting: pole Ø90 mm

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