



Solar and Solar active

Pedestrian crossing lighting systems

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At night and in poor visibility hours, the pedestrian crossings must be properly illuminated and signaled:

SIGNAL

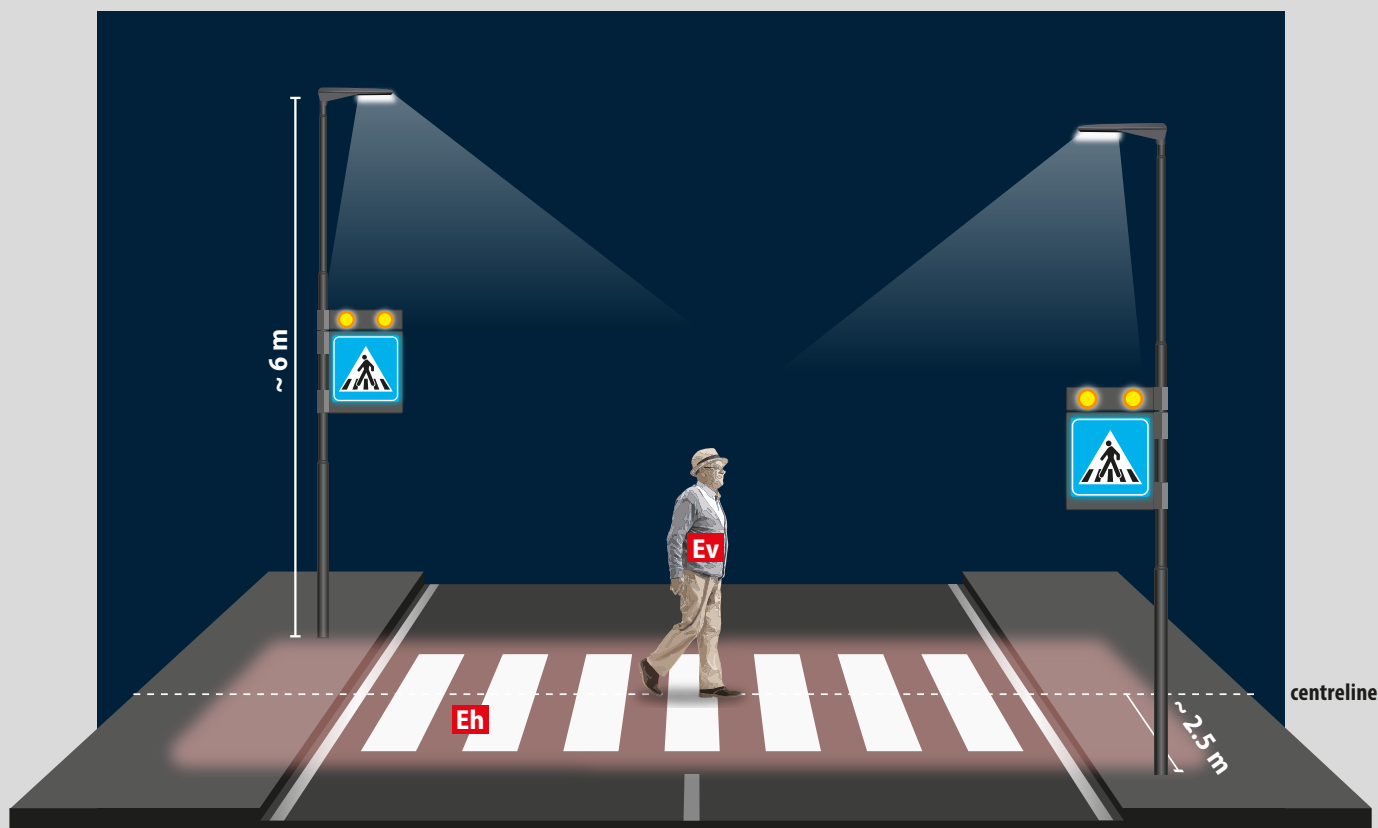
using LED flashers certified according to **EN 12352** and LED backlit signals according to **UNI 12899**.

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 E_h [lux]

Is the quantity of light measured on the horizontal plan [E_h] 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 E_v [lux]

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

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



Components of APL Solar system

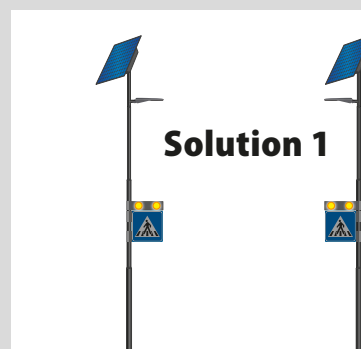
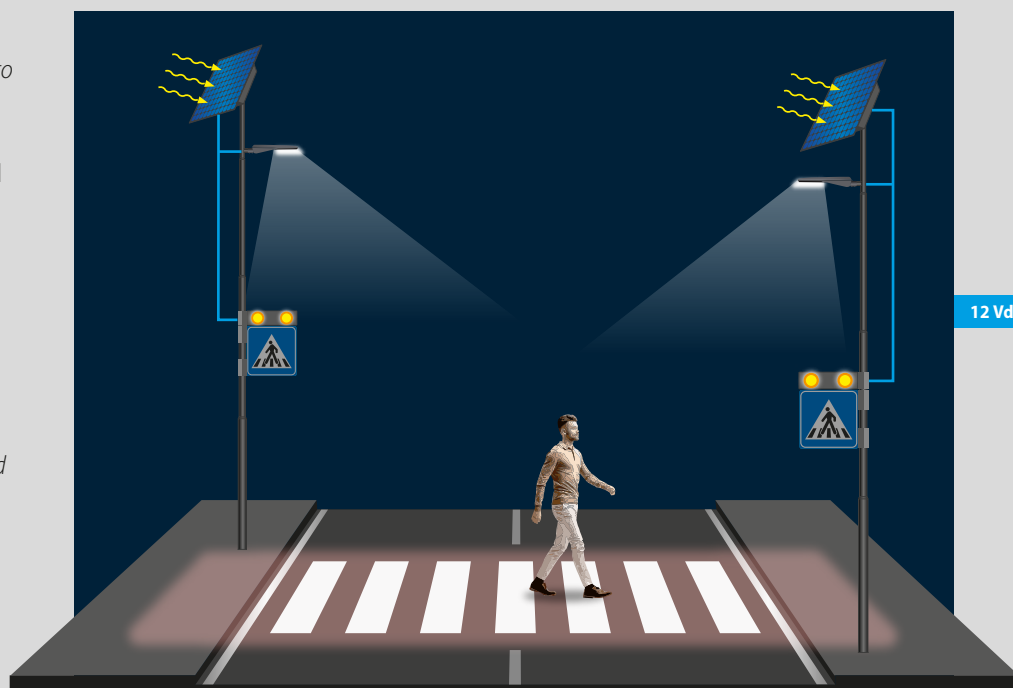
LED streetlights	LED BOX	Photovoltaic kit	APL Solar active wireless module	APL Solar active activation devices
Talos N	4 projectors Basic 102	140 W		Sensor and push-button
				

APL Solar

Even if with lower power comparing to AC APL (APL Classic and APL Smart), the APL SOLAR (with Talos N 18W) can guarantee sufficient **horizontal and vertical illuminance** 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**.

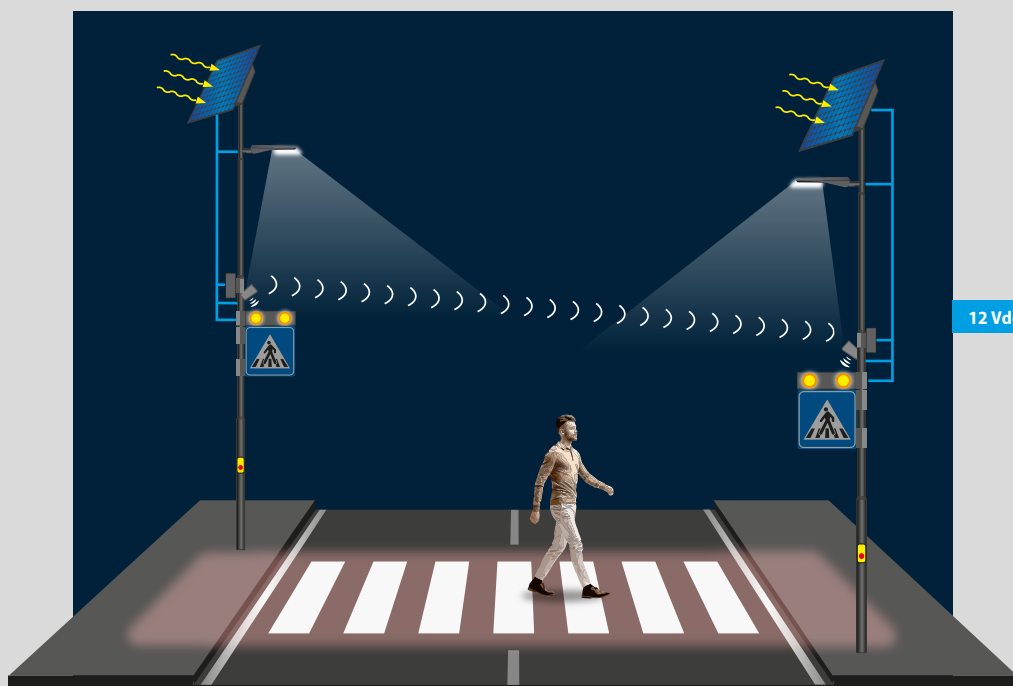
In the **Photovoltaic Kit** battery and charging regulator are integrated with the PV module. In this way we can avoid to use an external box.

Peak power **140 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 Streetlights
with dedicated double
asymmetric optic targeting
the highest classes **EV** of the
EN13201.

Compliance	EN13201
Certification	
LED optics	Asymmetric L - R Specific for pedestrian crossing
Input voltage	12 VDC
Power consumption	18 W
Material	Die-cast aluminum SUPERCAS[®]
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 day.

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



SENSOR AND PUSH-BUTTON

Activation devices.
The sensor and the buttons
make the system interactive
and safer.

Certification	CE
Input voltage	12 VDC

Control and power supply units



**WIRELESS
CONTROL UNIT**

Akzo900 powder
coating metal cabinet,
timer power supply,
flashing/ radio control
module, battery
charging system.

Battery: 9Ah Pb AGM
Mounting: band-it /
pole Ø90 mm



**KIT
FOTOVOLTAICO**

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: 140 W
Battery: 90 Ah
Output voltage: 12 V
Mounting: pole Ø90
mm