PEDESTRIAN CROSSING LIGHTING SYSTEMS

SOLAR ACTIVE
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 (UNI/TS 11726).

The LED luminaires **Stratos N and P** 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 **EN 13201.**
**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 Active combines the technological advantages of our LED APL solutions with the need to install such systems in areas not covered by AC network.

Even if with lower power comparing to AC APL (APL Classic and APL Smart), the APL SOLAR (with Stratos 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.**

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**WWW.LEDPEDESTRIANCROSSING.COM**
### LED Streetlights with Dedicated Double Asymmetric Optic Targeting the Highest **EV** Classes of the **EN 13201.**

<table>
<thead>
<tr>
<th>Component</th>
<th>Compliance</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Optics</td>
<td>ASYMMETRIC L-R</td>
<td>SPECIFIC FOR PEDESTRIAN CROSSING</td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
<td>12 VDC (APL SOLAR)</td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>STRATOS N</td>
<td>18 W (APL SOLAR)</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>SUPERCAST® DIE-CAST ALUMINUM</td>
<td></td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Ø60</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>STRATOS N</td>
<td>528 X 300 X 53 MM</td>
</tr>
</tbody>
</table>

**LED Boxes** are devices with certified LED projectors to be combined with our backlit LEDs in order to increase pedestrian crossing visibility especially during the daytime.

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<tr>
<th>Component</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>12 VDC</td>
</tr>
<tr>
<td><strong>LED Colour</strong></td>
<td>BASIC 102 X 4 (DOUBLE SIDE)</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>BASIC 102</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>POLE</td>
</tr>
</tbody>
</table>

**Activation Devices.** The sensor and the buttons make the system interactive and safer.

**Power Supply and Control Units**

**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

**Wireless**

AKZO900 powder coating metal cabinet, timer power supply, flashing/radio control module, battery charging system.

- **Battery:** 7Ah Pb AGM
- **Mounting:** band-it / pole band-it