



Smart and Smart wireless

Pedestrian crossing lighting systems

Pedestrian crossing lighting systems

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

SIGNAL

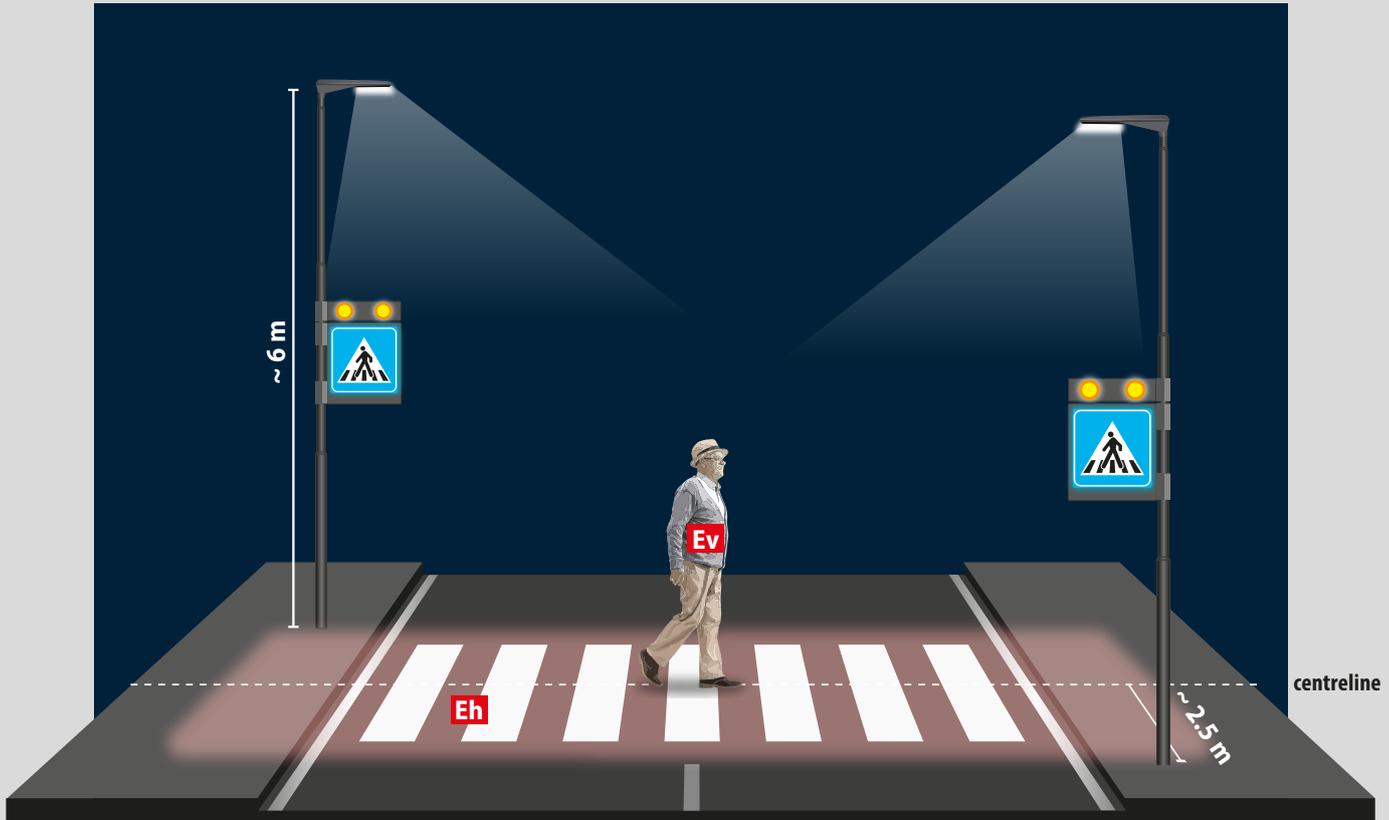
using LED flashers certified according to **EN 12352** and **LED backlit signals** according to **UNI 12899**.

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 Smart is the latest evolution of **signalling and lighting of pedestrian crossings** created to make them **interactive and safer**.

**1 -
Stand-by
40%**



**2 -
100%**



Components of APL Smart system

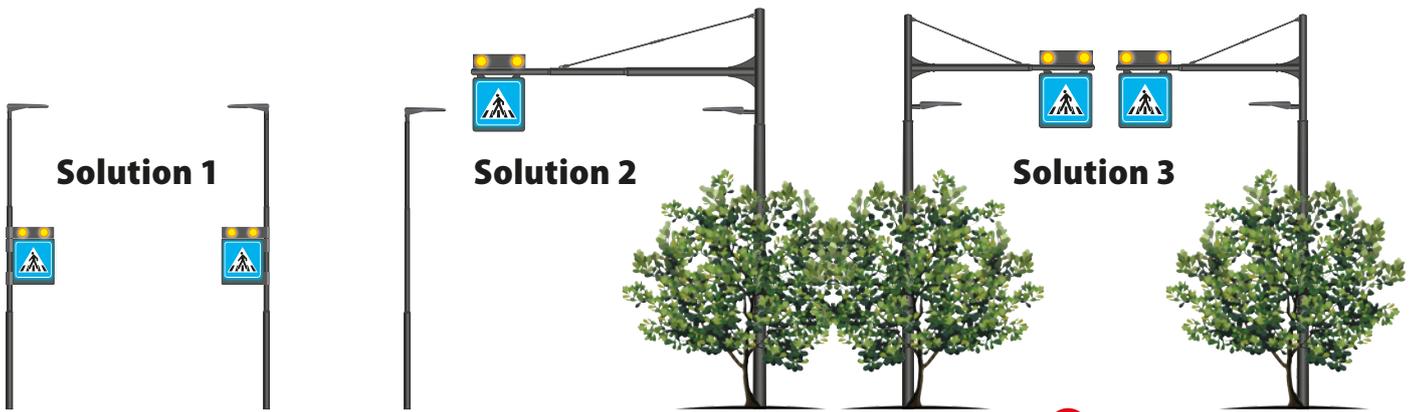
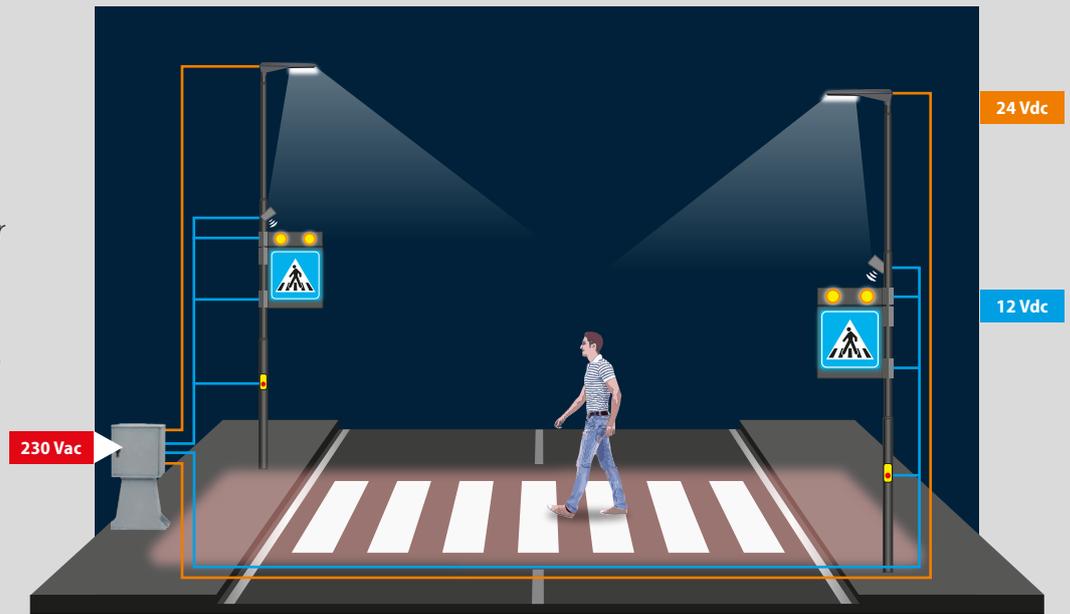
LED streetlights	LED backlit signs - double side		LEDBOX	
<p>Talos G</p> 	60 x 60	90 x 90 slim	4 projectors Basic 102	2 projectors Basic 201
				
	Control unit		Activation devices	
	APL Smart	APL Smart wireless	Sensor and push-button	Touch-button
				

APL Smart

1 - The system is activated by a **push-button** or by a **sensor**.

2 - Thanks to the intelligent dimming the lighting level for the pedestrian crossing goes **from 40% up to 100%**.

LED flashers start working.

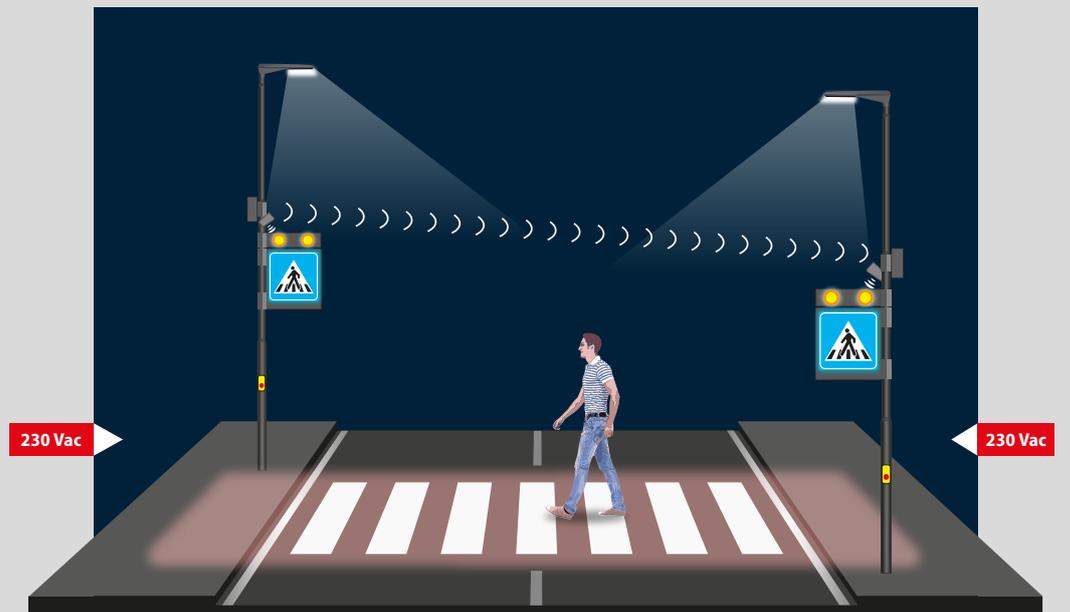


Solutions 2 and 3 are suitable for installations on roads with limits above 50 km/h (eg. **70**)

APL Smart wireless

Does not require wiring inside the road.

Available only with Talos G.



Components



TALOS G

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



DOUBLE SIDE
90X90 SLIM

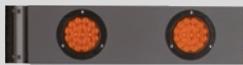


DOUBLE SIDE
60X60

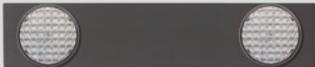
Our **backilluminated LED signs** are extremely important to make the pedestrian crossing visible from long distances. The perfect uniformity and luminance values of the signs are our competitive advantage. The backilluminated sign LED 90x90 can be equipped with lower LED Trilogy bar.

Compliance	EN13201	
Certification		
LED optics	Asymmetric L -R Specific for pedestrian crossing	
Input voltage	24 VDC - 230 VAC	
Power consumption	137 W	
Material	Die-cast aluminum SUPERCAS[®]	
Mounting	Ø60	
Dimensions	690 x 360 x 225 mm	
Compliance	EN12899	
LED colour	○ Double side	
Input voltage	12 VDC - 230 VAC	
Light emission area	90 x 90 cm	60 x 60 cm
Power consumption	51 W	36 W
Mounting	Tilting system	Ø60 - Ø90 mm Band-it
Dimensions	1000 x 1000 x 62 mm (w/o bracket)	645 x 735 x 68 mm (w/o bracket)

Components



LEDBOX BASIC 102



LEDBOX BASIC 201



SENSOR AND PUSH-BUTTON



TOUCH-BUTTON

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	Basic 201 Basic 102	EN12352 - L8H EN12352 - L2H
	LED colour		Basic 201 x 2 (single side) Basic 102 x 4 (double side)
	Input voltage	12 VDC	
	Power consumption	Basic 201 Basic 102	15 W 15 W
	Mounting	Pole	Ø60 - Ø90 Band-it
	Box dimensions	600 x 160 x 60 mm 900 x 210 x 120 mm	
Activation devices. The sensor and the buttons make the system interactive and safer.	Certification		
	Input voltage	12 VDC	

Control and power supply units



CONTROL UNIT

Fiberglass cabinet, base, power supplies, timer, flashing control module, predisposition for Pb AGM battery, battery charging system.



POWER SUPPLY/
BATTERY KIT

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



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