

APL Smart ELV
APL Smart Wireless 230



**PEDESTRIAN CROSSING
LIGHTING SYSTEMS**

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

SIGNAL

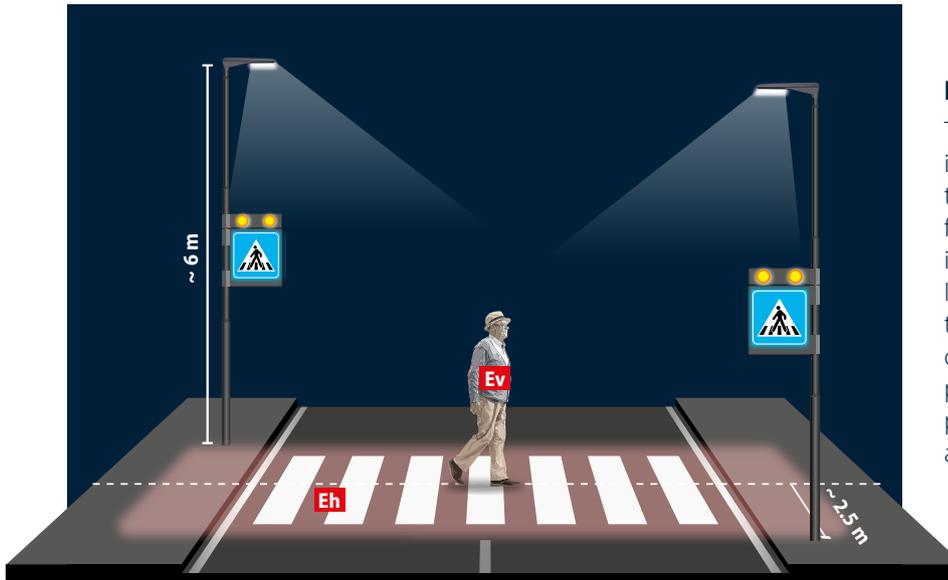
using LED flashers certified according to **EN 12352**
and LED backlit signs according to **EN 12899**.

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 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. The system is activated by button or motion sensor, increasing the lighting level on the crossing from 40% to 100% and turning on the LED flashers.

01 -Stand-by 40%



02 -100%



SYSTEM COMPONENTS

LED luminaries

Talos G



LED backlit signs - double side

60 x 60



90 x 90 slim



LEDBox

4 projectors
Basic 102



2 projectors
Basic 201



Control unit

APL Smart ELV



APL Smart Wireless 230



Activation devices

Sensor and push-button

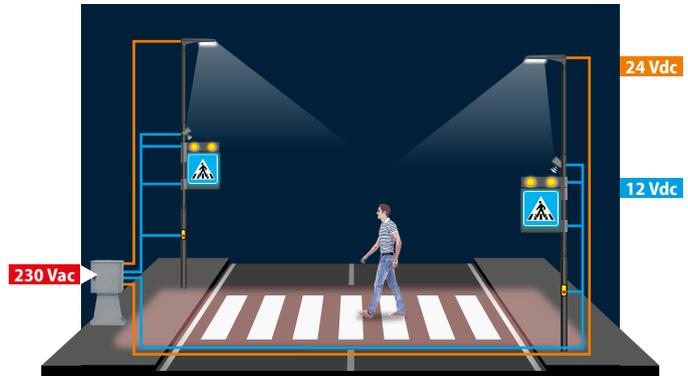


Touch-button



APL SMART ELV

This is the Extra Low Voltage version that makes installation easier when mains power is available at one side of the road only. Cutting of the street required.

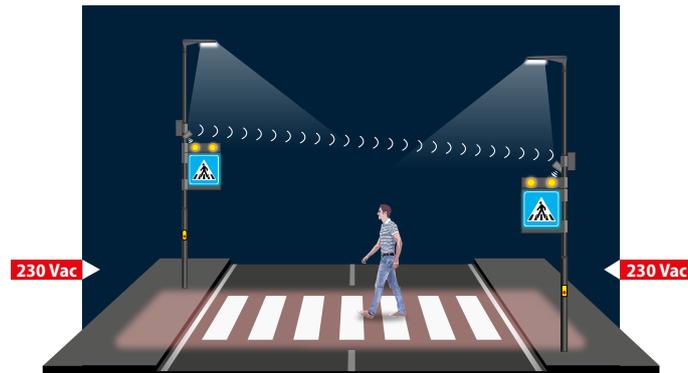


Solutions 2 and 3 are suitable for installations on roads with limits above 50 km/h (e.g. **70**)

APL SMART WIRELESS 230

This system works at 230 V and it is mostly suited for applications where mains power is available at both sides of the road. No cutting across the street required.

The communication between control units is wireless.





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

Compliance	EN13201 - TS 11726	
LED optic	Asymmetric L -R Specific for pedestrian crossing	
Input voltage	230 VAC	24 VDC
Power cons.	137 W	
Material	Die-cast aluminum SUPERCAS[®]	
Mounting	Ø60	
Dimensions	690 x 360 x 225 mm	



**DOUBLE SIDE
90X90 SLIM**



**DOUBLE SIDE
FLAG 60X60**

Our **LED backlit 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 LED backlit signs 90x90 can be equipped with lower LED Trilogy bar.

Compliance	EN12899	
LED colour	○ Double side	
Model	Double side SLIM	Double side flag
Light emission area	90 x 90 cm	60 x 60 cm
Input voltage	230 VAC - 12 VDC	230 VAC - 12 VDC
Power cons.	230 VAC - 54 W 12 VDC - 48 W	230 VAC - 40 W 12 VDC - 25 W
Mounting	Tilting system	Ø60 - Ø90 mm Band-it
Dimensions [mm]	1000 x 1140 x 63	646 x 730 x 63 (bracket excluded)
Code figure's application	Class II superior translucent films	Class II superior translucent films



LEDBox BASIC 102



LEDBox BASIC 201

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



SENSOR AND PUSH-BUTTON



TOUCH-BUTTON

Activation devices.

Sensor and buttons make the system interactive and safer.

Certification	Basic 102 Basic 201	EN12352 - L2H EN12352 - L8H
LED colour		Basic 102 x 4 (double side) Basic 201 x 2 (single side)
Input voltage	12 VDC	
Power cons.	Basic 102 Basic 201	15 W 15 W
Fixing	Pole	Ø60 - Ø90 Band-it
Box dimensions	645 x 160 x 60 mm 900 x 210 x 120 mm	
Certification	CE	
Input voltage	12 VDC	

CONTROL UNITS AND POWER SUPPLY



APL SMART ELV CONTROL UNIT

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



APL SMART WIRELESS 230 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



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