



Patented System **LEDBLOK** for roundabouts

Electronic Road Safety Systems

The innovative LedBlok system has a low environmental impact and greatly improves road safety. It allows road users to clearly see the size of the central ring of the roundabout, even from a long distance, and to adjust their speed before entering the roundabout.

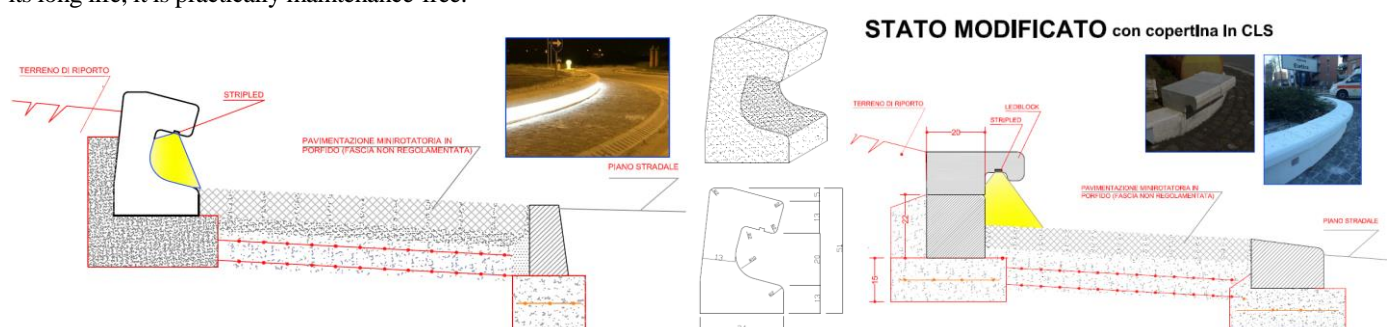


The roundabout has a new patented indirect LED lighting system. Thanks to the use of LEDs, the system's consumption is highly efficient and is practically maintenance-free.

It is also water, dust and shock resistant. Its support/protection system is composed of a "LEDBLOK" kerb in prefabricated C.A.V. sections and its size and shape protects the LED system and houses the power supply cables.

The flexibility of the patented system means it can be added to existing roundabouts using the new kerb or "covers" applied to existing kerbs, and it protects the LED system from damage. The LED system is most useful on roundabouts with no light towers or with low road lighting.

The use of innovative LED technology makes the product highly efficient in terms of both visibility and consumption. On the basis of current or planned road lighting systems and the desired visual effect, the system consumes between 3 and 4.5 Watts per metre and, given its long life, it is practically maintenance-free.

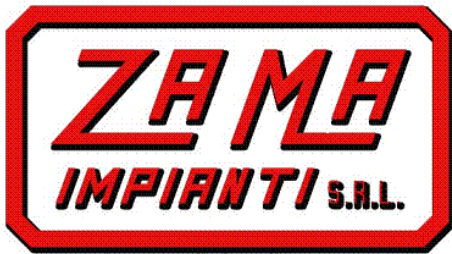


www.zamaimpanti.it

ZAMA Impianti s.r.l.: Via Cimatti, 4 - 47010 Galeata - FC
Tel. +39 0543 - 981090 Fax +39 0543 - 981367

e-mail: info@zamaimpanti.it

R.E.A. Register FC n°306631
VAT and Tax Code 03578190401



Electronic Road Safety Systems

Patented System **LEDBLOK** for roundabouts

Technical Description of the Product

The "LEDBLOK" kerb forming the central ring of the roundabout is composed of prefabricated C.A.V. sections with a total height of 51cm and a length of 33.3cm.

Its shape protects the StripLed on the upper section, improves the light output on the lower section and facilitates its laying. The special power supply units have slots for the LED power supply cables.

The "Strip-Led" lighting has an innovative LED COB (Chip On Board) system inserted into an extruded transparent body. It has a 6x12mm section and is available in five colours (Amber - Red - Blue - Green - White).

You can also choose between three distances between the LEDs (27.8mm-55mm-83mm).

The system is water, dust and shock resistant (IP67 guaranteed and EN 60598-1 certified) and its LED COB technology makes this product highly efficient in its consumption and practically maintenance-free (up to 100,000 hours).

Thanks to the symbols on the back, the LED strip is very easy to cut to the desired length and, thanks to its accessories like connectors, hoods and profile kits, it is easy to install.

The operating temperature is between -20 and +70°C, and it is available with two different power supply voltages. 12VDC and 24VDC; The number of LEDs and the length of cut are directly dependent on the power supply voltage. The consumption is the same in both cases, it changes only in relation to the LED colour.

Technical Specifications

Supply of ZAMA Impianti s.r.l or equivalent "LEDBLOK" Kerb, height 51cm, depth 34cm, length 33.3cm, manufactured in compliance with standard UNI EN 1340:2004/EC1:2008, to form the central ring of roundabouts and general kerb work for the construction of straight or curved tracks, including special pieces for the running of StripLed power cables. The kerb is made of prefabricated white grit vibrated concrete, with a shape and size as shown in the attached final design, The head is characterised by a special "grooved side" for the safe and protected housing of LEDs, while the base has a unique "curved foot" for easy, quick and secure laying. In addition, it has unique and proven lighting results due to its indirect reflected light effect. The prefabricated product must pass the physical and mechanical tests required by standard UNI EN 1340:2004/EC1:2008 and must be manufactured with the following minimum technical characteristics: class 2 breakage resistance, class 2 water absorption and class 3 ice resistance/thawing with salt.

Supply of ZAMA or equivalent **Indirect LED Lighting System** "Flexi Strip-LED" with innovative COB (Chip On Board) LED inserted in the transparent extruded body, size 6x12mm, cold white colour LED (6000°K) with a distance of 27.8mm between each LED. The system is water, dust and shock resistant (IP67 guaranteed and EN60598-1 certified), and its COB LED technology makes this product not only highly efficient in terms of consumption, but also practically maintenance-free. Thanks to the symbols on the rear, Flexi Strip-Led is very easy to cut to the desired length, and with its various accessories, such as connectors (male/female), hoods and profile kits (linear and angular), it is easy to install. The working temperature is between -20 and +70°C, and it is available in two supply voltages: 12VDC and 24VDC;

Supply of **StripLed Power Supply Unit** 100-230VAC/24VDC stabilised at 3.2A, 100W to be inserted in the control panel or IP67 airtight container;

Supply of **Strip-Led Power Supply Panel** composed of a fibreglass box with door and key lock, power supply unit 100-230VAC/12VDC stabilised at 5A, power supply line protection (Public Lighting), including cabling, anchor bolts to secure the box to the base and everything else necessary for a professional finish;

New:

The LedBlok system is also available in colours **RGB** !!! The control unit allows you to choose between 24 programmes with different fixed or sequential colours and control the light intensity and the rate of the sequence programme.