

# LED BEACONING

SOLAR & EXTRA-LOW VOLTAGE







Dietmar Feichtinger Architects - Photo Vincent M

Submersible causeway to Mont-Saint-Michel, ECO-845



## Using technology to safeguard users and the environment

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Since 2004, ECO-INNOV has been working alongside local authorities and businesses to reduce energy consumption related to lighting, while improving user safety. For this purpose, we design and market solar LED and extra low voltage lighting devices.

Energy efficient, these units offer real economic savings. Their interest is therefore ecological with a strong reduction in light pollution, but also aesthetic thanks to the many choices of colors and light animations that LEDs offer.

In cooperation with design offices and architects, we select the products and options most suited to your projects, advise on implementation, fitting and follow-up of the installations thanks to our network of local commercial agents. Our main customers are local authorities, private companies and installers.

Our products incorporate multiple technological innovations in the fields of photovoltaics, electronics, energy storage, optics and mechanical engineering.

These innovations are a source of performance (light output, autonomy), durability (robustness, maintenance) and adaptability (customisation options).

LED technology is at the heart of our offering because of its remarkable properties: very low energy consumption, luminous efficiency, reliability and long service life.

**Reduce your energy bills and your installation and maintenance costs!**

### CERTIFICATIONS



## Recycling

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ECO-INNOV is a founding member of ECOSYSTEM, an approved eco-organisation responsible for the collection and recycling of electrical and electronic equipment waste. ECO-INNOV is also a member of the SCRELEC eco-organisation responsible for the recovery of used batteries.

The unique identifier FR006801\_05MBCK attesting to enrollment in the register of producers in the EEE sector, pursuant to article L.541-10-13 of the Environmental Code, has been assigned by ADEME to the company ECO- INNOV (SIRET 451 859 409 00026).

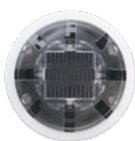
This identifier attests to its compliance with the obligation to matriculate in the register of producers of Electrical and Electronic Equipment and to the realisation of its declarations of placing on the market with ECOSYSTEM.



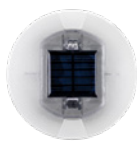
## SOLAR



### Embedded solar studs



ECO-35



ECO-40



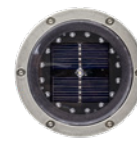
ECO-54



ECO-57



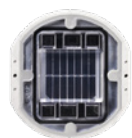
ECO-84



ECO-120



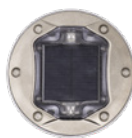
ECO-128



ECO-142



ECO-143



ECO-190



ECO-246

### Surface solar beacons



ECO-118

## VERTICAL SIGNALLING



### Solar lights and LED signs



ECO-506



ECO-512



ECO-545



ECO-A13a



ECO-C20a



PRODUCTS

**ECO  
INNOV**

**LED BEACONING**



## EXTRA LOW-VOLTAGE (ELV)



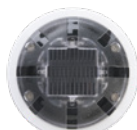
### ELV studs



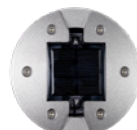
ECO-824



ECO-830



ECO-835



ECO-843



ECO-845



ECO-848



ECO-850



ECO-870

### ELV paving stone lights



ECO-STONE 80



ECO-STONE 99

## CONTROLLERS



### Management and power supply



MC-500



MC-529

## REFLECTING



### Embedded glass studs



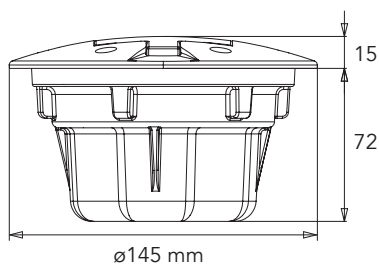
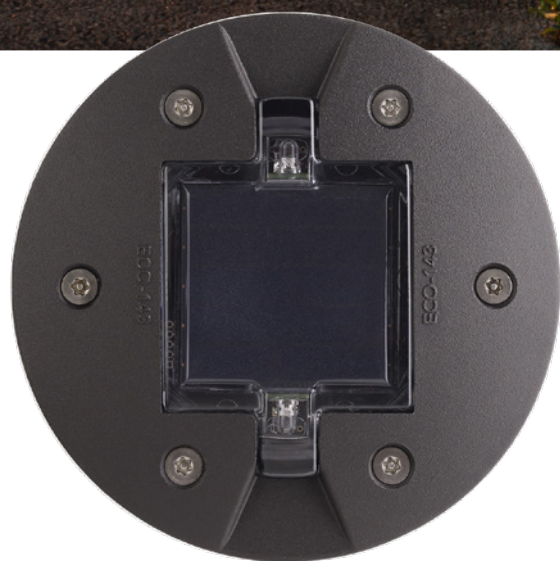
ECO-V5



ECO-V10

## LED beaconing for a cycle path: La Vélodyssée

Photo : Camille Saada



SOLAR / ELV



## ECO-143 / ECO-843

Marking cycle paths, footpaths, greenways, parks and eco-districts.

- Embedded solar stud, fully self-contained or ELV
- Resembles a pavement stud
- Low profile for pedestrians and cyclists
- Uni- or bidirectional beaconing, 1 or 2 LEDs / side
- Steady or flashing mode
- LED module maintenance via the cover
- Unpolished, anodised or thermoplated aluminium

IK10+  
100 Joules

Impact

IP68  
5 Meters

Protection



ECO-143



ECO-843

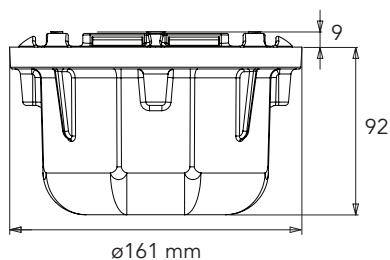




Pedestrian crossing in Claye-Souilly



Light design ACERE - Photo Karolina Samborska



EXTRA LOW-VOLTAGE



## ECO-848

User safety on busy roads, and in industrial areas, ports and airports

- 12V DC (or 24V DC) hard-wired embedded stud
- Very low consumption, 1.92W (or 3.84W)
- Low profile for pedestrians and cyclists
- Able to withstand 120-tonne trucks
- Bidirectional beaconing, 2 x 8 LEDs
- Steady, flashing or sequential mode
- LED module maintenance via the cover
- Corrosion-proof stainless steel cover

IK10+  
100 Joules

Impact

IP68  
5 Meters

Protection

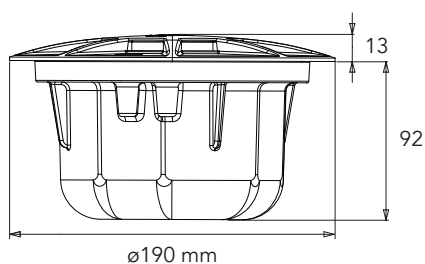
120T  
120 Tonnes

Resistance



ECO-848





EXTRA LOW-VOLTAGE



## ECO-870

User safety on busy roads, and in industrial areas, ports and airports

- 12V DC (or 24VDC) hard-wired embedded stud
- Very low consumption, 1.92W (or 3.84W)
- Low profile for pedestrians and cyclists
- Able to withstand 150-tonne trucks
- 180° beaconing with 12 LEDs or 360° with 24 LEDs
- Steady, flashing or sequential mode
- LED module maintenance via the cover
- Corrosion-proof stainless steel cover

IK10+  
100 Joules

Impact

IP68  
5 Meters

Protection

150T  
150 Tonnes

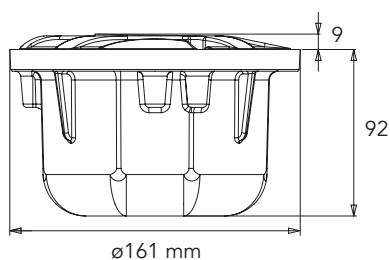
Resistance



ECO-870







EXTRA LOW-VOLTAGE



## ECO-845

User safety on busy roads, and in industrial areas, ports and airports

- 12V DC (or 24V DC) hard-wired embedded stud
- Very low consumption, 0.96W (or 1.92W)
- Low profile for pedestrians and cyclists
- Able to withstand 120-tonne trucks
- Unidirectional beaming, 8 LED
- Steady, flashing or sequential mode
- LED module maintenance via the cover
- Corrosion-proof stainless steel cover

**IK10+**  
100 Joules

Impact

**IP68**  
5 Meters

Protection

**120T**  
120 Tonnes

Resistance



ECO-845



Narrow carriageway in Grenoble

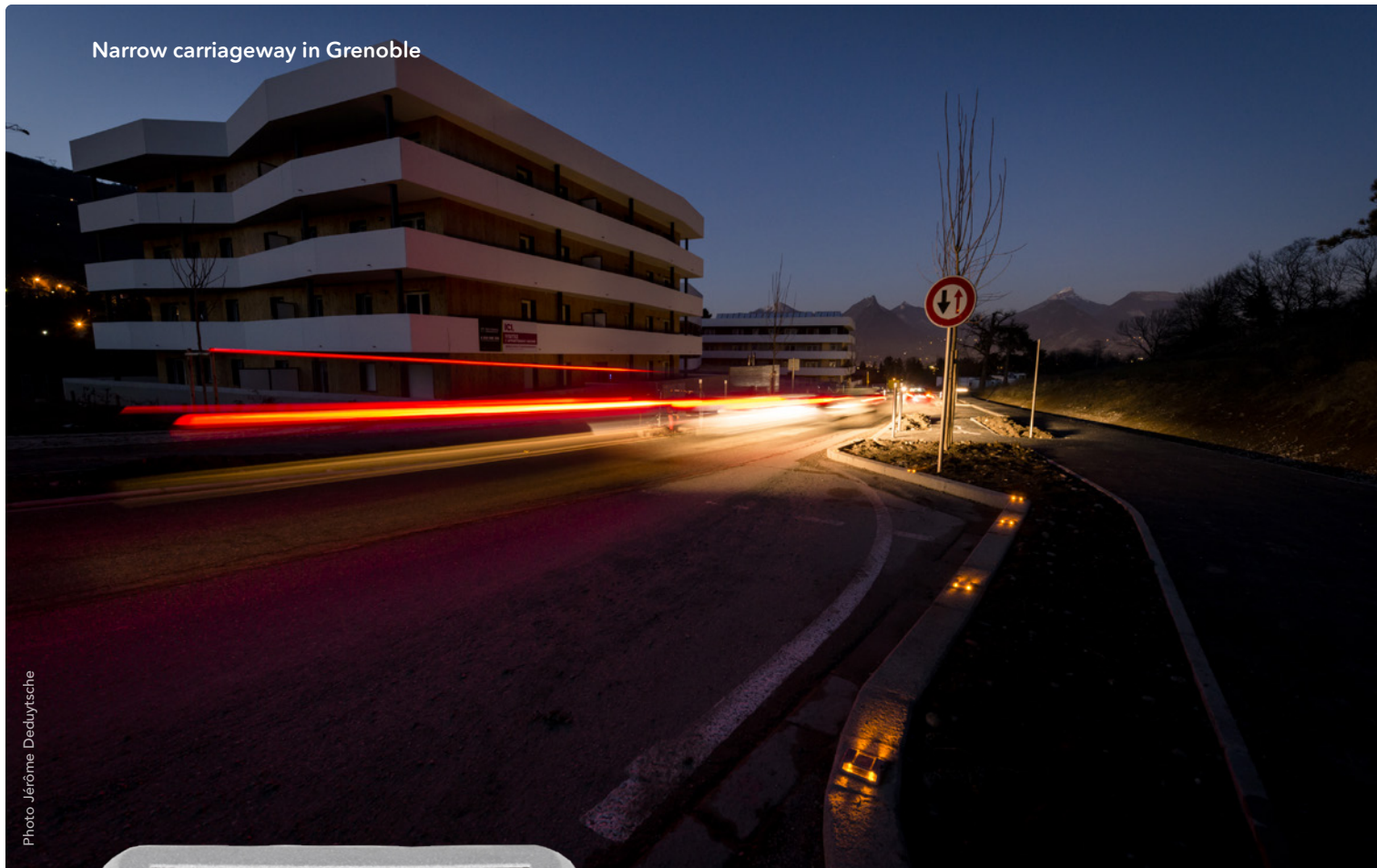
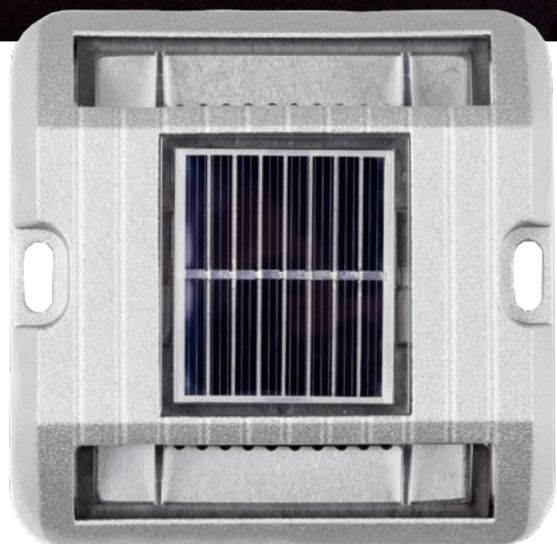


Photo Jérôme Deduytsche



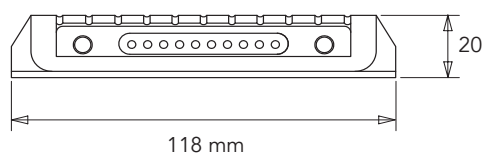
SOLAR



## ECO-118

Impassable obstacles, borders of traffic islands, roundabouts, chicanes and central reservations

- Fully self-contained square surface beacon
- Height of 20 mm unsuitable for roadway use
- Easy to install: 2 anchor screws supplied
- Unidirectional beaconing with 2 or 4 LEDs or bidirectional beaconing with 2 LEDs per side
- Steady or flashing mode
- Retro-reflector between the LEDs with 10 glass beads per side



**IK10**  
20 Joules

Impact

**IP68**  
5 Meters

Protection

**2T**  
2 Tonnes

Resistance



ECO-118

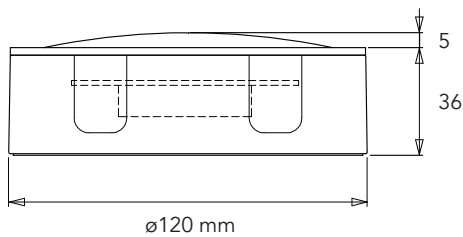
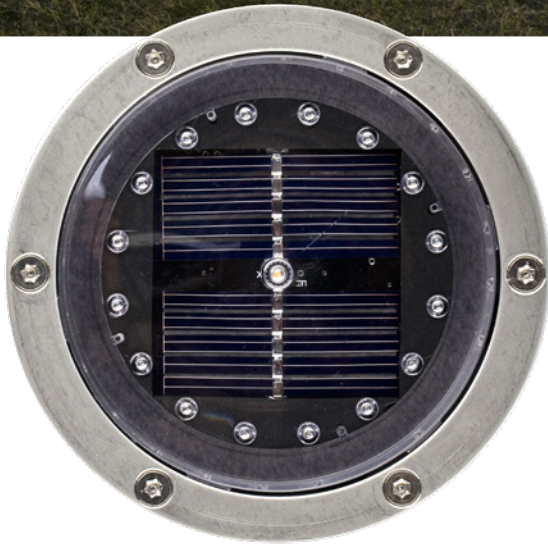




Landscaping sculpture in Meyrin (Switzerland)



Design Gilles Bruset - Photo Pierre Yves Brunaud



SOLAR



## ECO-120

Designed to mark and illuminate parks, eco-districts, cycle lanes, pedestrian paths

- Fully self-contained embedded solar stud
- LED module maintenance via the cover
- Can withstand the weight of light vehicles
- Flush with the roadway so no hindrance for disabled users
- 1-LED vertical Beacon, 360° visibility
- Steady or flashing modes  
(special programs are available upon request)
- 16 reflecting glass beads

IK10  
20 Joules

Impact

IP68  
5 Meters

Protection

2T  
2 Tonnes

Resistance



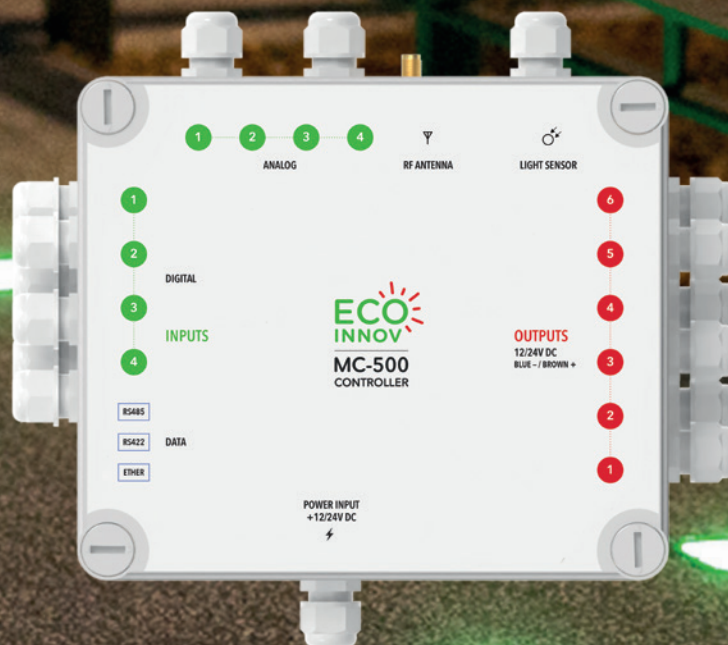
ECO-120





# Studs management

The micro-controller allows a customized control of your wired studs



## MC-500

IP65 Micro-controller  
ELV power supply not included



- Installation: for electrical cabinet
- Input: 12V DC or 24V DC
- Outputs: 1 to 6 lines of studs (optional extension)
- Connection: possible admission of dry contacts
- Standard size: 210 x 185 x 85mm

## MC-529

IP68 Micro-controller  
ELV power supply included



- Installation: for buried manhole
- Input: 230V AC
- Outputs: 1 to 9 lines of studs (optional extension)
- Connection: IP68 plug-in connectors
- Standard size: 280 x 190 x 130mm

## CONTROLLERS



### Customizable beaconing

- LED Power
- Outdoor light sensor
- Lighting duration and intensity
- Light Modes

### Automated lighting

- Flashing for speeding
- Synchronization with traffic lights
- Synchronization with public lighting
- Numerous sensors and actuators

### Remote control

- Failure and peripherals monitoring
- Transmission of logs and alerts
- Remote control with 4G router
- Facilities safety



# Options

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## LED TEMPERATURE AND COLOURS



6500K



4000K



3000K



Amber



Red



Green



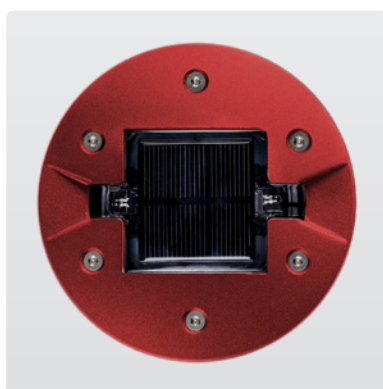
Blue

## LIGHT



- Constant
- Blinking
- Synchronised blinking
- Glowing
- Flashing
- Firefly
- Candle
- Breathing
- Glittering
- Sequential
- Grazing

## COVER



- Cover colour (RAL)
- Aluminum cover
- Anodized cover
- Glossy cover
- Matt cover

## BRAND



- Logo inlay
- Coat inlay

## Accessories

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Anti-theft screw



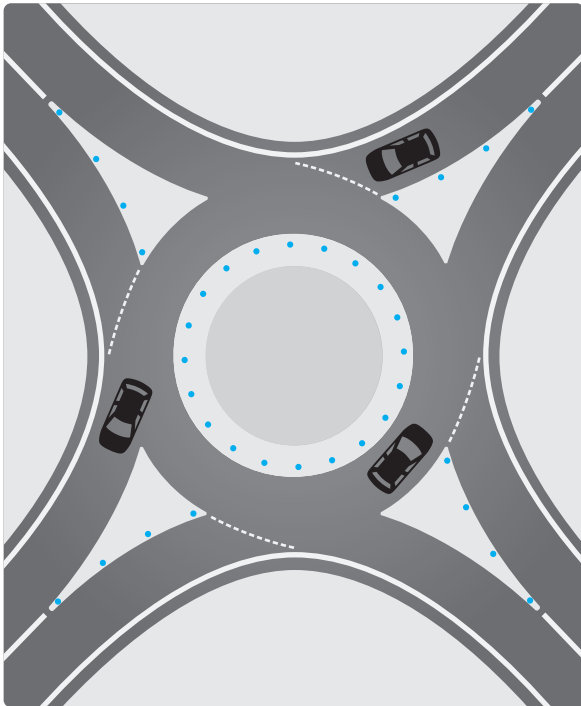
Snow cover



IP68 plug-in connectors

## Objectives

- Encourage motorists to slow down
- Give warning of raised kerbs
- Anticipate vehicle trajectories



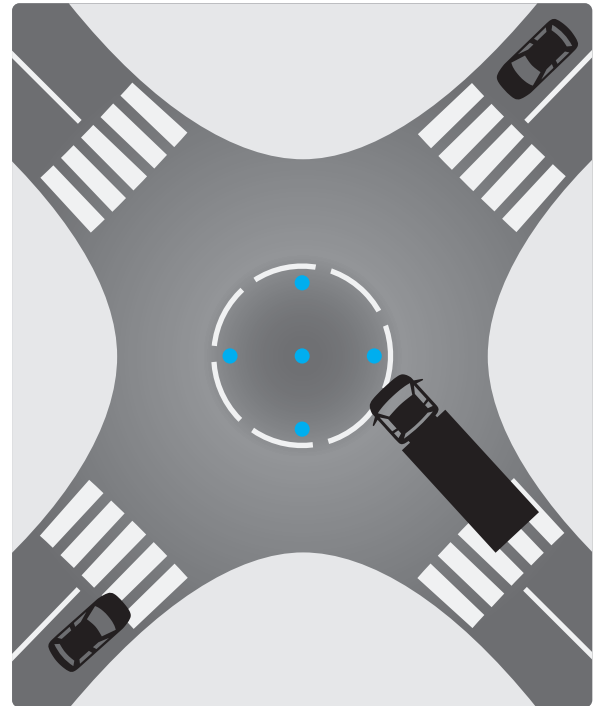
## ROUNABOUT

### 1. Central island

Marked every 2 to 4 metres depending on the ring diameter. Positioned on road pavement or kerb.

### 2. Raised splitter islands

Marking by means of 3 to 6 studs. Positioned on road pavement or kerb.



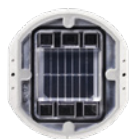
## MINI ROUNABOUT

Beaconing with 5 studs. Positioned on mini-roundabout or on road pavement.

### SOLAR



- Embedded stud ECO-142
- Unidirectional 3 LED



ECO-142

### EXTRA LOW-VOLTAGE



- Embedded stud ECO-870
- Omnidirectional 24 LED

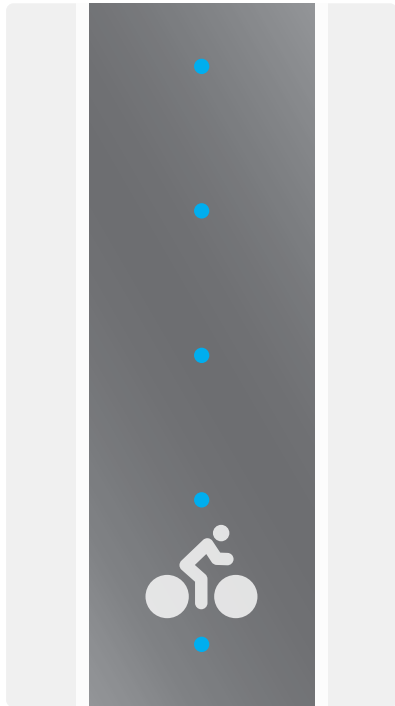


ECO-870



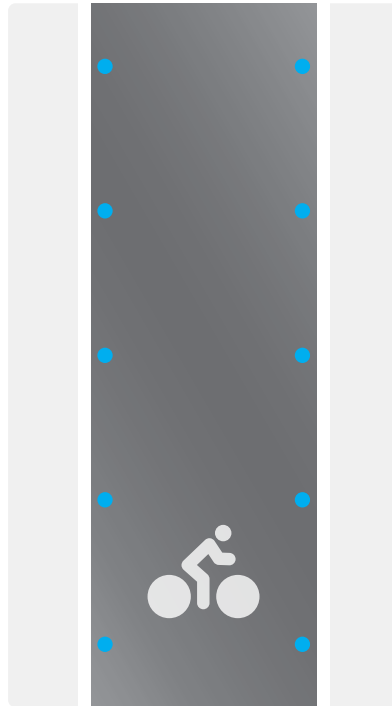
## Objectives

- Guiding and safeguarding users
- Create a bright atmosphere



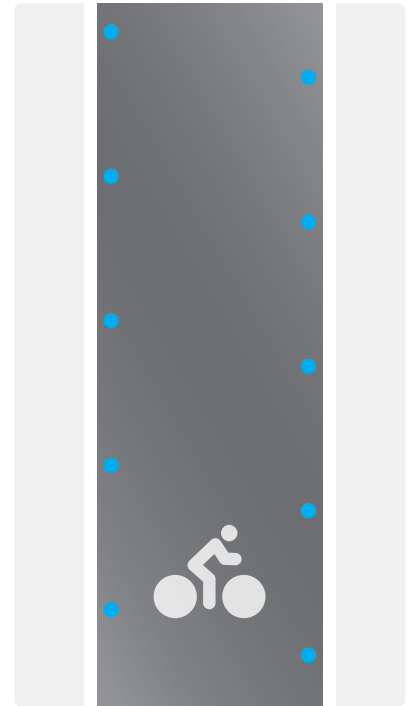
### 1. Central marking

Positioned every 5 metres in a straight line and closer together in bends.



### 2. Face-to-face marking

Positioned every 10 metres in a straight line and closer together in bends.



### 3. Staggered marking

Positioned every 10 metres in a straight line and closer together in bends.

## SOLAR



- Embedded stud ECO-143
- Bidirectionnel 1+1 LED

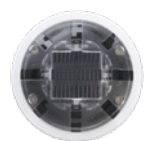


ECO-143

## EXTRA LOW-VOLTAGE



- Embedded stud ECO-835
- Omnidirectionnel 16 LED



ECO-835



## Custom project

Illumination of a fountain  
for the city of Aubenas.

Submerged ECO-57 solar  
studs, glow program.

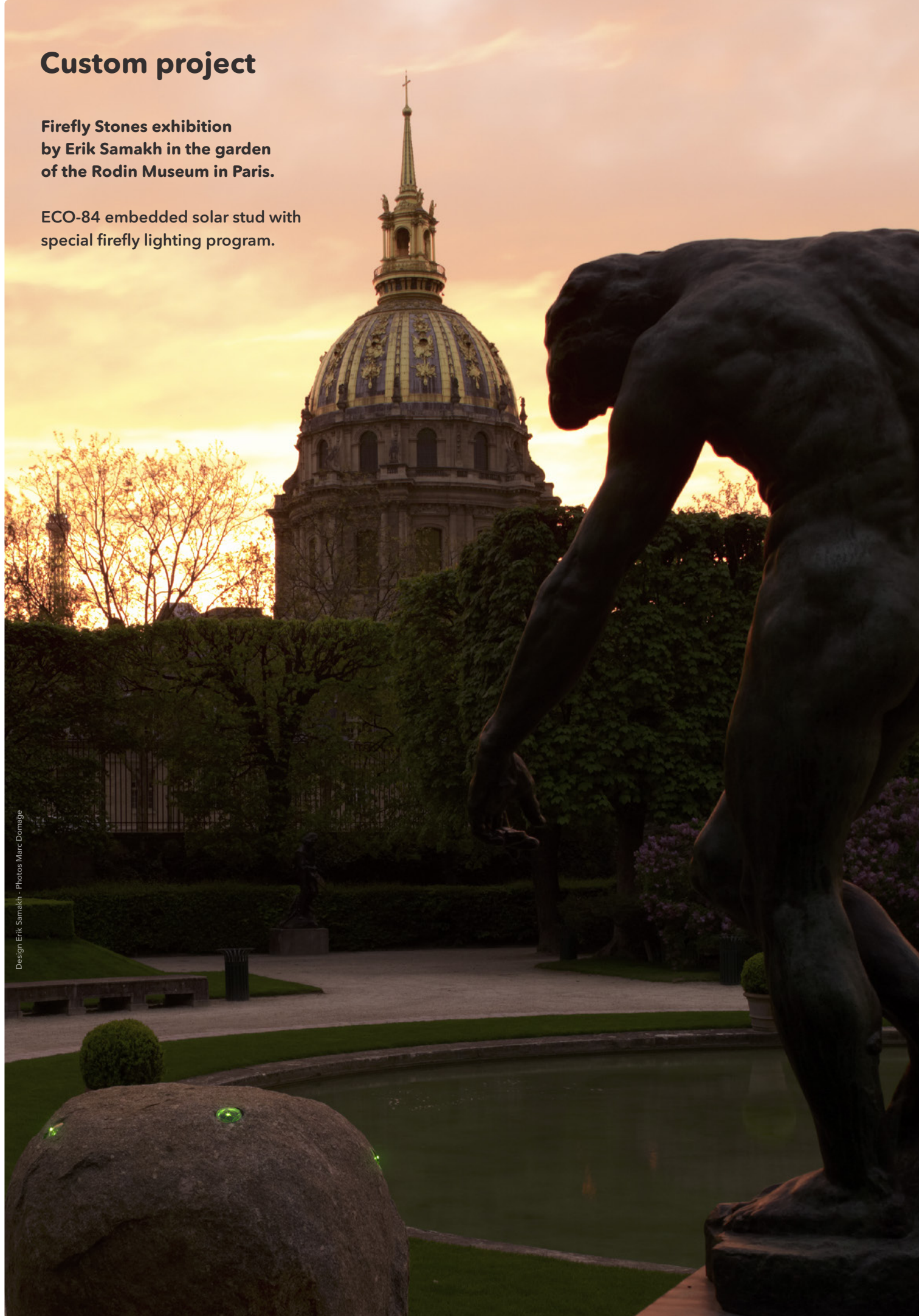




# Custom project

**Firefly Stones exhibition  
by Erik Samakh in the garden  
of the Rodin Museum in Paris.**

ECO-84 embedded solar stud with  
special firefly lighting program.







**Guide and secure users  
Reduce energy costs**



[www.eco-innov.com](http://www.eco-innov.com)

**LED BEACONING**  
**+33(0)4 38 70 00 27**  
**info@eco-innov.com**