



## Safety light beaconing



Solar



ELV



Reflex



Control



# LED beacons on cycle path

ECO-143 ☀





## 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, eco-organisation responsible for the collection and recycling of electrical and electronic equipment waste.

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.



We are a participating member of BATRIBOX, the eco-organisation responsible for the collection and recycling of used batteries.



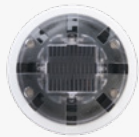
# Solar

**Solar beaconing is an ideal technology for securing installations by limiting civil engineering work and eliminating energy costs.**

Versatile and customisable, our solar range meets the varied requirements of road or architectural projects (LED colours, lighting modes). Our photovoltaic technology recharges our equipment during the day and restores the available energy by lighting up at night.

Customised electronic control depending on the installation site ensures the best balance between light output, autonomy and component lifespan.

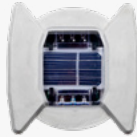
## Embedded solar studs



ECO-35



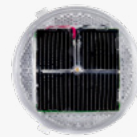
ECO-40



ECO-54



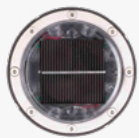
ECO-57



ECO-84



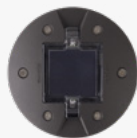
ECO-124



ECO-128



ECO-142



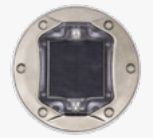
ECO-143



ECO-160 A



ECO-160 X



ECO-190

## Surface solar beacons



ECO-118



ECO-MAR



ECO-SOL 50

## Vertical solar light



ECO-506



ECO-545

## Flexible solar bollard



ECO-CITY 35

# Secure pedestrian crossings and industrial sites.

Photo: Jérôme Deelytschie



## ECO-160 A

### Roadway solar stud



Latest-generation embedded solar stud, GPS technology.  
Mechanical design adapted to demanding traffic with 2 protective hoops and low projection.  
Grazing light with 3 LEDs per side.  
Easy maintenance of the LED module through the cover.  
IP68 (waterproof), IK10+ (100 joules impact).



LCV



HGV



40T  
Resistance

### Custom options

#### Customisation

Aluminium cover: anodised, powder-coated (RAL), glossy, matt.

#### Light modes

Constant, flashing, GPS-synchronised flashing, clock.

Unidirectional 3 LED or bidirectional 2x3 LED beaconing.

#### LED colours



Red



Amber



2700K



3000K



4000K



6500K



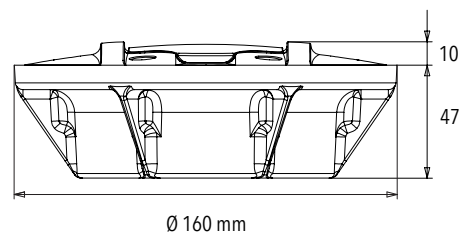
Green



Blue



Two-tone



Recycling: Ecosystem, Batribox



ECO-160 A

# Mark the kerbs, indicate obstacles



Photo: Jérôme Deduytsche

## ECO-118 Surface solar beacon



Square above-ground beacon used to mark impassable obstacles on roundabouts, islands and chicanes. Quick and easy to install by gluing and screwing to its base (2 anchor bolts supplied). Height of 20 mm unsuitable for roadway use. IP68 (waterproof), IK10 (impact).

2T

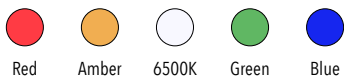
Resistance

### Custom options

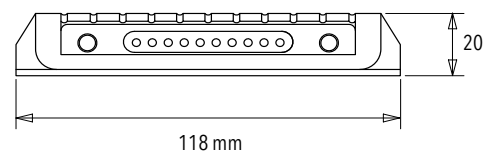
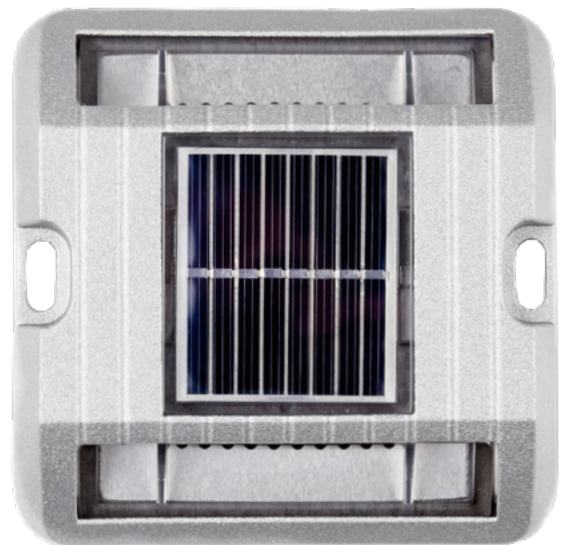
#### Light modes

Flashing.  
Unidirectional 2 LED or bidirectional 2x2 LED beaconing.  
Central reflector for extra visibility.

#### LED colours



Red Amber 6500K Green Blue



Recycling: Ecosystem, Batribox



ECO-118

# Marking out footpaths, cycle paths and greenways

Photo: Camille Saada

## ECO-143 Embedded solar stud



Luminous beacon with the appearance of a roadway nail.  
Low profile for pedestrians and two-wheelers.  
Grazing light with 1 or 2 LEDs per side.  
Easy maintenance of the LED module through the cover.  
IP68 (waterproof), IK10+ (100 joules impact).



Pedestrian



Cyclist

### Custom options

#### Customisation

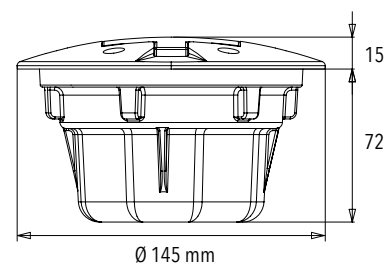
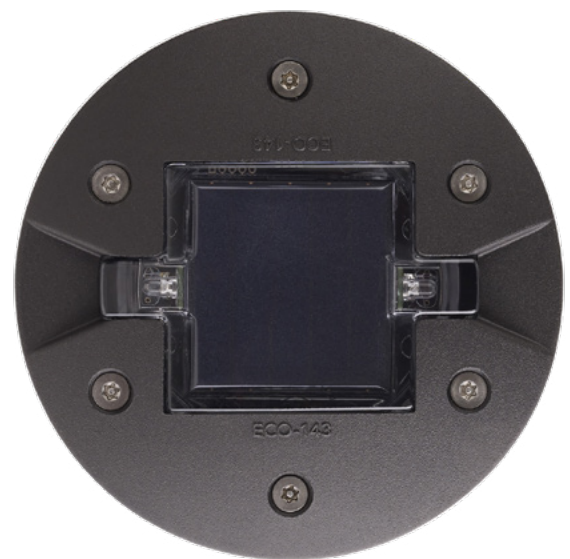
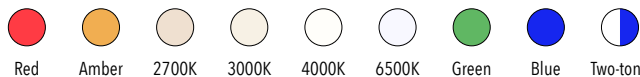
Aluminium cover: anodised, powder-coated (RAL), glossy, matt.

#### Light modes

Constant, flashing, clock.

Unidirectional or bidirectional beaoning, 1 or 2 LEDs per side.

#### LED colours



Recycling: Ecosystem, Batribox



ECO-143

# Decorative marking for parks, footpaths and public squares



Photo: Claire-Lise Havet

## ECO-MAR

### Surface solar beacon



Autonomous beacon light for installation on a pole or mast. 360° light diffusion through a Fresnel lens for enhanced luminous brilliance.

Various warm LED colours and an internal timer that can be programmed to switch off in the middle of the night to protect biodiversity (dark infrastructure).

### Custom options

#### Customisation

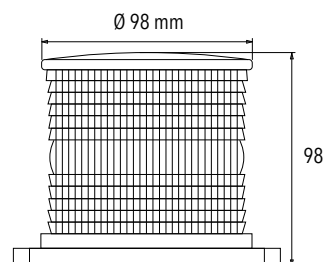
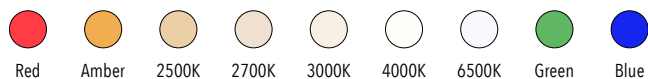
Adjustable beam angle and number of LEDs.  
Stainless steel cladding and custom fixings.

#### Light modes

Constant, flashing, breathing, clock or other upon request.

Standard version with 8 LED 360° lighting.

#### LED colours





# Secure pedestrian areas and industrial sites



Photo: Ciel Blue, Soleil ! - Nathanael Mergui

## ECO-CITY 35

### Flexible solar bollard



Solar beacon at the head of a shape memory bollard.  
Returns to position after impact w/o damaging the sealing.  
Revient en place après impact sans altérer le scellement.  
Protects users, particularly two-wheelers, from head impacts compared to a steel post.  
UV-resistant polyurethane suitable for salty environments.  
Long service life and easy maintenance.

#### Custom options

##### Bollard colour

Anthracite grey RAL 7016. Custom RAL available based on quantity.

##### Fixing

Anchor foot to suit the support and site constraints.

##### Light modes

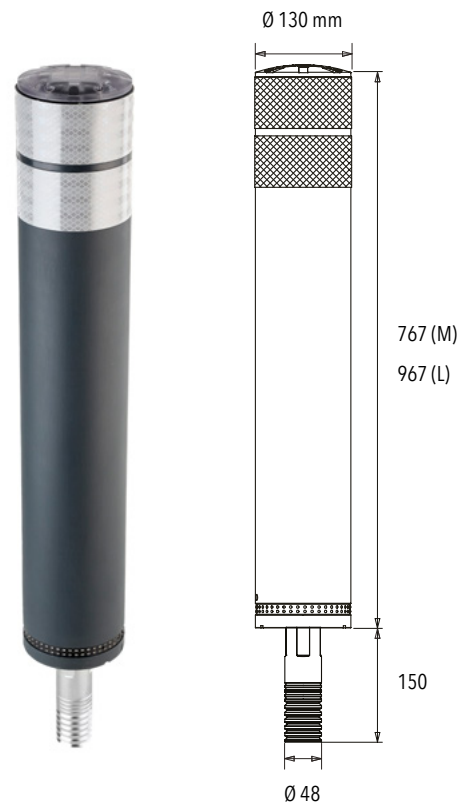
Constant, flashing, GPS-synchronised flashing, clock.

360° beaconing with 4 or 8 LEDs.

##### LED colours



Red Amber 2700K 3000K 4000K 6500K Green Blue



Recycling: Ecosystem, Batribox



ECO-CITY 35



# Extra-low voltage

**Extra-low voltage (ELV) beaoning offers a wide range of functions when the equipment can be connected to the electrical network.**

Requiring a little civil engineering during installation, this technology offers a host of advantages: LED light output, long life, intelligent control using our microcontrollers, differentiated lighting during the day and night, interaction with other signalling devices. The robustness and watertightness of our extra-low voltage embedded studs have been tried and tested in airports and flood-prone areas.

## Embedded ELV studs

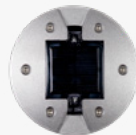
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ECO-830



ECO-835



ECO-843



ECO-845



ECO-848



ECO-850



ECO-870

## Surface-mounted ELV beacons

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ECO-801



ECO-803



ECO-824

## Embedded ELV paving stones

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ECO-STONE 80



ECO-STONE 99

# Securing pontoons and port areas

Dietmar Feichtinger Architects - Photo: Vincent M



## ECO-845

Extra-low voltage embedded stud



Unidirectional wired beacon with 8 LEDs.

ELV 12V DC or 24V DC power supply (0.96W or 1.92W).

Stainless steel cover suitable for demanding traffic.

Low profile for pedestrians and two-wheelers.

Easy maintenance of the LED module through the cover.

IP68 (waterproof), IK10+ (100 joules impact).



LCV



HGV



Resistance

### Custom options

#### Customisation

Stainless steel or aluminium cover, wiring, 230V version on request.

#### Light modes

Constant, flashing, synchronised flashing, sequential, clock.

4 or 8 LED unidirectional beaconing.

#### LED colours



Red



Amber



2700K



3000K



4000K



6500K



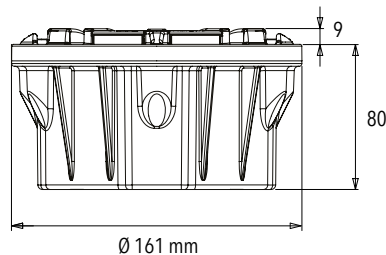
Green



Blue



Two-tone



Recycling: Ecosystem



ECO-845

# Safeguarding pedestrian crossings and logistics areas



Lighting design: ACERE - Photo: Karolina Samborska

## ECO-848

Extra-low voltage embedded stud



Bidirectional wired beacon with 16 LEDs.  
ELV 12V DC or 24V DC power supply (1,92W ou 3,84W).  
Stainless steel cover suitable for demanding traffic.  
Low profile for pedestrians and two-wheelers.  
Easy maintenance of the LED module through the cover.  
IP68 (waterproof), IK10+ (100 joules impact).



LCV



HGV



120T

Resistance

### Custom options

#### Customisation

Wiring, 230V version on request.

#### Light modes

Constant, flashing, synchronised flashing, sequential, clock.

2x8 LED bidirectional beaconing.

#### LED colours



Red



Amber



2700K



3000K



4000K



6500K



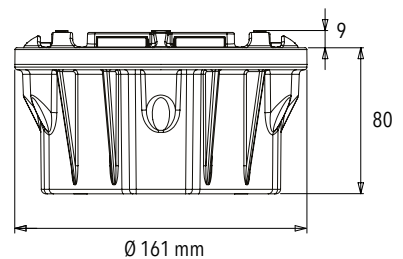
Green



Blue



Two-tone



Recycling: Ecosystem



ECO-848

# Safeguarding roundabouts and roads with heavy traffic

Photo: Karolina Samborska



## ECO-870

Extra-low voltage embedded stud



Omnidirectional wired beacon with 24 LEDs.  
 ELV 12V DC or 24V DC power supply (1,92W ou 3,84W).  
 Stainless steel cover suitable for demanding traffic.  
 Low profile for pedestrians and two-wheelers.  
 Easy maintenance of the LED module through the cover.  
 IP68 (waterproof), IK10+ (100 joules impact).



LCV



HGV



150T  
Resistance

### Custom options

#### Customisation

Wiring, 230V version on request.

#### Light modes

Constant, flashing, synchronised flashing, sequential, clock.

12 LED (180°), 24 LED (360°) beaconing or other upon request.

#### LED colours



Red



Amber



2700K



3000K



4000K



6500K



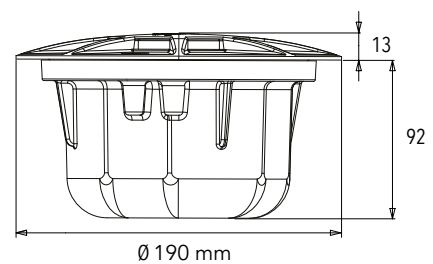
Green



Blue



Two-tone



Recycling: Ecosystem



ECO-870

# Flexion and reflection

Reflective technology is an economical and eco-friendly solution that provides an initial level of safety through passive marking. It can be applied to flexible bollards or hardened glass reflecting edge studs.

Reflection, which consists of reflecting the light emitted by vehicle headlights, is achieved using a variety of technologies: technical films and paints, glass beads and reflectors.

The flexible nature of safety bollards brings considerable advantages: the seal is not torn off as it is with steel bollards when they are hit, and vehicles suffer only slight damage. The deterrent effect remains intact because of their similarity to rigid bollards.

## Flexible bollard

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ECO-CITY 80

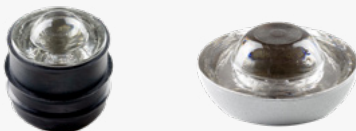
ECO-CITY 130

ECO-FLEX 80

ECO-FLEX 130

## Embedded glass studs

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ECO-V5

ECO-V10

**Delimiting urban areas,  
protecting pedestrians and cyclists**



## ECO-CITY 80

### Flexible reflective bollard



Bollards with a modern, streamlined design to mark out public spaces and protect the most exposed users: pedestrians, cyclists and motorcyclists.

Its shape-memory structure is highly resistant, allowing it to return to its original shape after an impact.

Anti-UV polyurethane suitable for salty environments.

Various customisation options.

#### Custom options

##### Bollard colour

Anthracite grey RAL 7016.

Custom RAL available based on quantity.

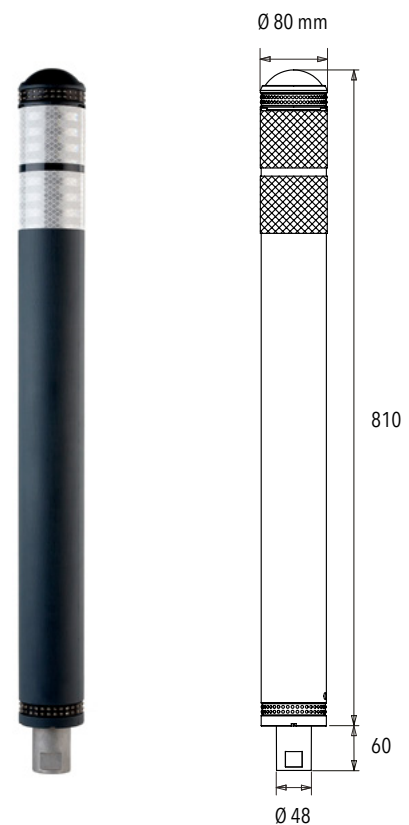
##### Fixing

Anchor foot to suit the support and site constraints.

##### Reflection

Retroreflective strips: quantity, colour, size.

White retroreflective glass beads: head, foot.





# Control

**Microcontrollers facilitate customized management of extra-low voltage (ELV) wired beacons, allowing for precise and adaptable operation.**

To help users understand and navigate their environment, our microcontrollers can be connected to existing devices such as radar, traffic lights, automatic controllers and detection loops.



Lighting design: Cobalt - Photo: Gilles Di Nallo

### Automated control

- Interaction with existing systems
- Flashing for speeding
- Synchronisation with traffic lights

### Configurable beaconing

- Power and Light modes
- Outdoor brightness sensor
- Time zone

### Remote control

- Fault and peripheral monitoring
- Transmission of logs and alerts
- Remote control with 4G router

## MC-500

Microcontroller IP65



### Installation for electrical cabinet

- Low-voltage power supply not included
- Input: 12V DC or 24V DC
- Outputs: 1 to 6 lines of studs (optional extension)
- Connection: dry contacts can be fitted
- Standard dimensions: 210 x 185 x 85 mm

## MC-529

Microcontroller IP68



### Installation for underground manhole

- Low-voltage power supply included
- Input: 230V AC
- Outputs: 1 to 9 lines of studs (optional extension)
- Connection: IP68 plug-in connectors
- Standard dimensions: 280 x 190 x 130 mm



# Custom options



## LED colours and temperatures

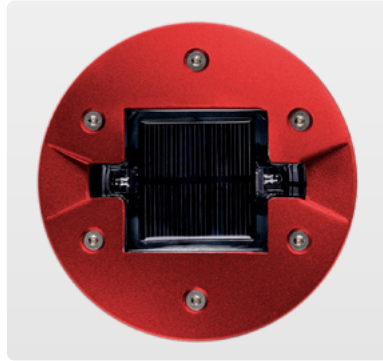


## Light modes



Constant, synchronised flashing, flashing, sequential, breathing, firefly, candle.

## Cover finish



Aluminium cover: anodised, powder-coated (RAL to choice), glossy or matt.

## Branding



Logo, coat of arms or text.

## Accessories



Anti-theft screw



Snow cover



IP68 plug-in connectors

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# Custom projects

Illumination of a fountain  
for the city of Aubenas.

Submerged ECO-57 solar studs.  
Glow program.

ECO-57 ☀

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

**ECO-84 embedded solar beacon.  
Special Firefly lighting program.**

**ECO-84** ☀️



Waterproofing, robustness, design.

ECO-845 ⚡

**ECO**  
**INNOV**



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