

Photo Karolina Samborska

LED BEACONING 2021





Dietmar Feichtinger Architects - Photo Vincent M

Submersible causeway to Mont-Saint-Michel



Using technology to safeguard users and the environment

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

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.

SOLAR 

Embedded solar studs



Surface solar beacons



VERTICAL SIGNALLING 

Solar lights and LED signs



VERY LOW-VOLTAGE



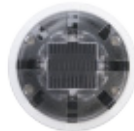
Low-voltage studs



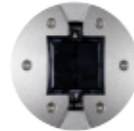
ECO-824



ECO-830



ECO-835



ECO-843



ECO-845



ECO-848



ECO-850



ECO-870

Paving stone lights



ECO-STONE 80



ECO-STONE 99

REFLECTING



Embedded glass studs



ECO-V5



ECO-V10

POWER SUPPLY & MICRO CONTROLLER



MC-500

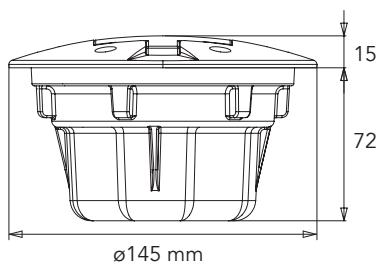
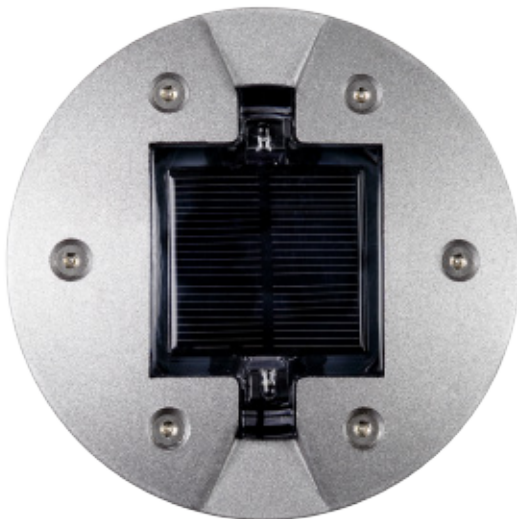


MC-529

Pedestrian crossing in Neuilly-sur-Seine



Photo Claire-Lise Havel



SOLAR / VLV



ECO-143 / ECO-843

User safety at pedestrian crossings, roundabouts, raised platforms, car parks, and cycle lanes

- Embedded road stud, fully self-contained or ELV
- Resembles a roadway stud
- Low profile for pedestrians and cyclists
- Able to withstand 40-tonne trucks
- Uni- or bidirectional beaming, 1 or 2 LEDs / side
- Steady or flashing mode
- LED module maintenance via the cover
- Unpolished, anodised or thermoplated aluminium

IK10+
100 Joules

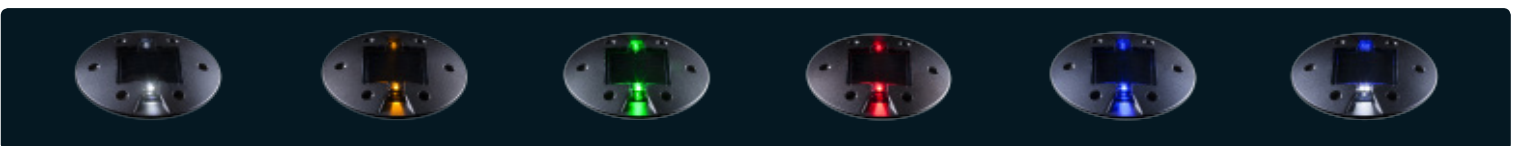
Impact

IP68
5 Meters

Protection

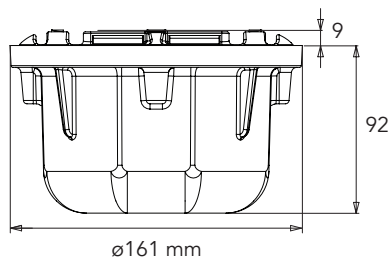
40T
40 Tonnes

Resistance



Pedestrian crossing in Claye-Souilly

Light design ACERE - Photo Karolina Samborska



VERY LOW-VOLTAGE



ECO-848

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

- 12 V/DC (or 24 V/DC) hard-wired embedded stud
- Very low consumption, 1.92 W (or 3.84 W)
- Low profile for pedestrians and cyclists
- Able to withstand 120-tonne trucks
- Bidirectional beacons, 2x8 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

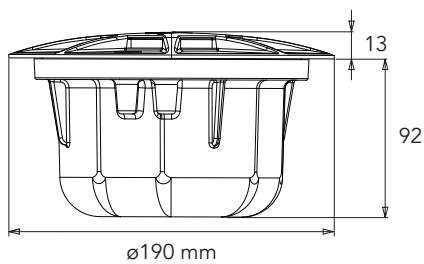
Resistance



Mini roundabout in Viry-Chatillon



Photo Karolina Samborska



VERY LOW-VOLTAGE



ECO-870

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

- 12V/DC (or 24 V/DC) 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° beaoning 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

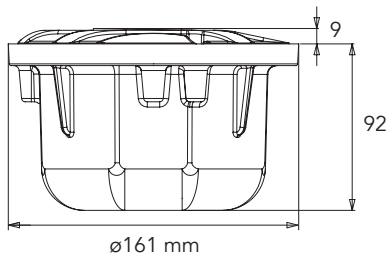
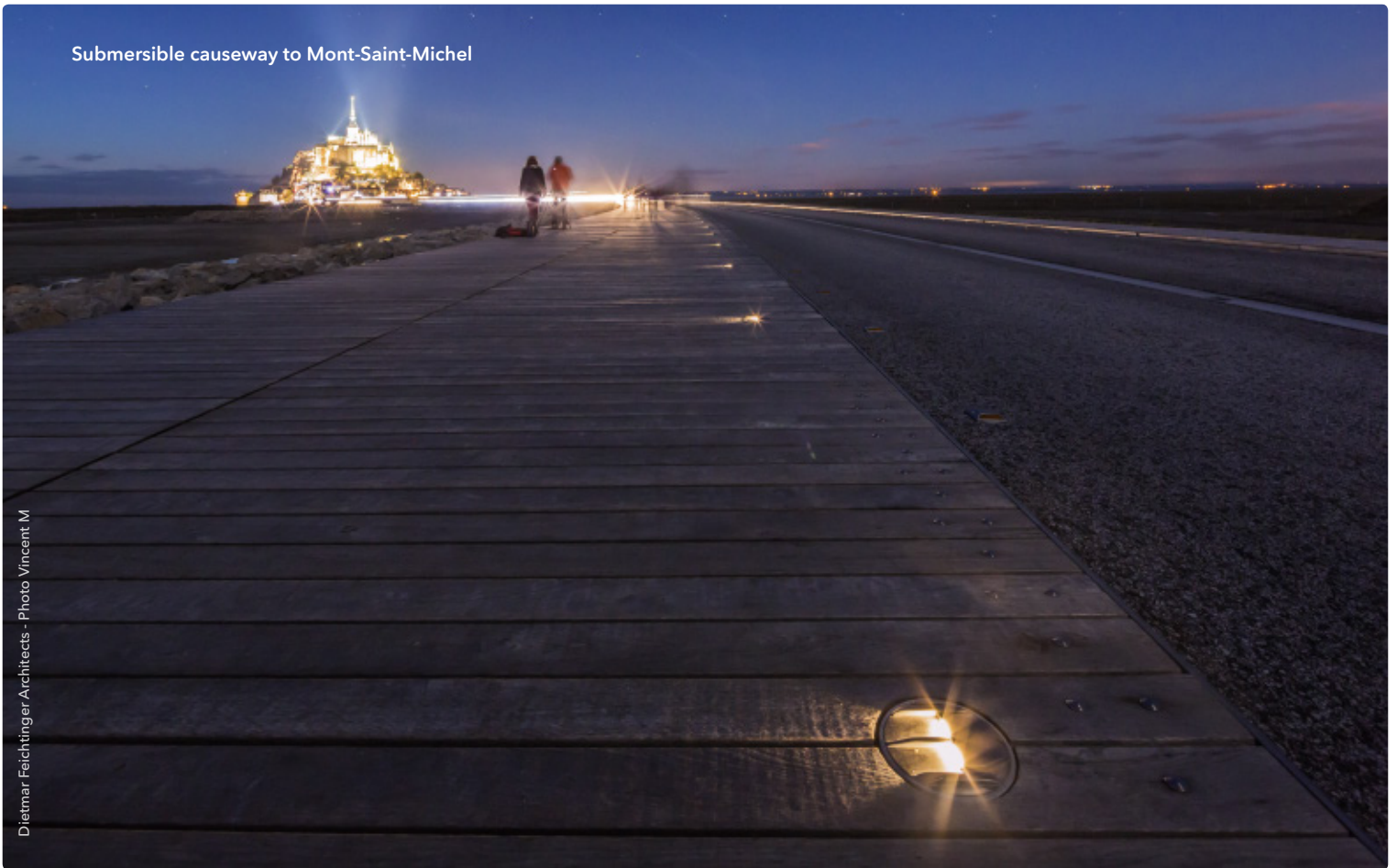
150T
150 Tonnes

Resistance



Submersible causeway to Mont-Saint-Michel

Dietmar Feichtinger Architects - Photo Vincent M



VERY LOW-VOLTAGE



ECO-845

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

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

IK10+
100 Joules

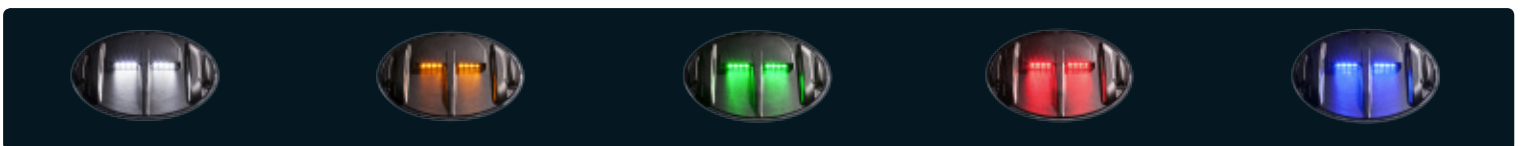
Impact

IP68
5 Meters

Protection

120T
120 Tonnes

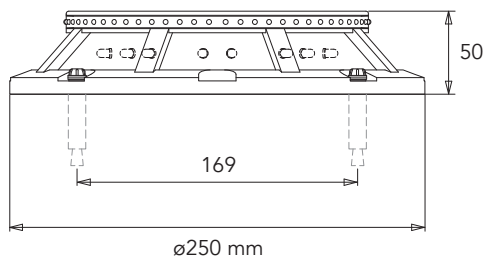
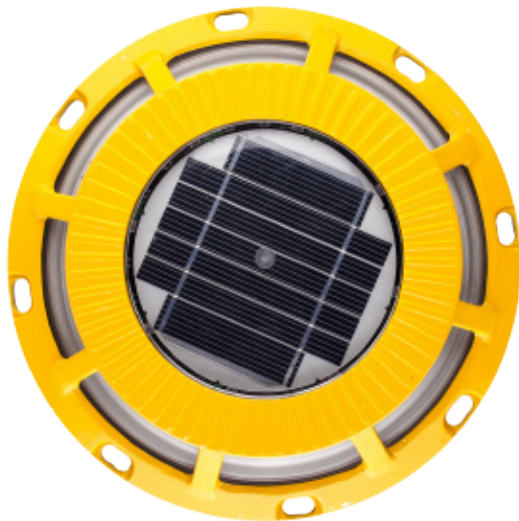
Resistance



Border of traffic island in Isère



Photo Michael Angot



SOLAR



ECO-250

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

- Fully self-contained surface beacon
- Height of 50 mm unsuitable for roadway use
- Easy to install: 8 anchor screws supplied
- Omnidirectional beaoning with 16 flashing LEDs
- LED colour: amber
- Diffuser lens in front of each LED
- Retro-reflector with amber glass beads, 360° visibility
- 120 flashes / min. (+/- 10%) in night-time operation
- 600 flashes / min. (+/- 10%) for 15 seconds after detecting the headlights of a vehicle

IK10+
100 Joules

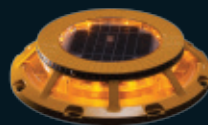
Impact

IP68
5 Meters

Protection

5T
5 Tonnes

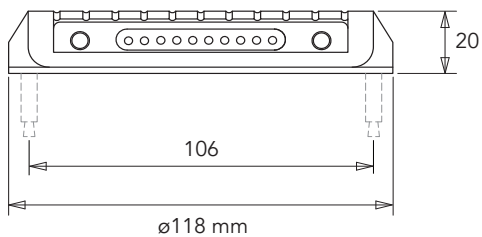
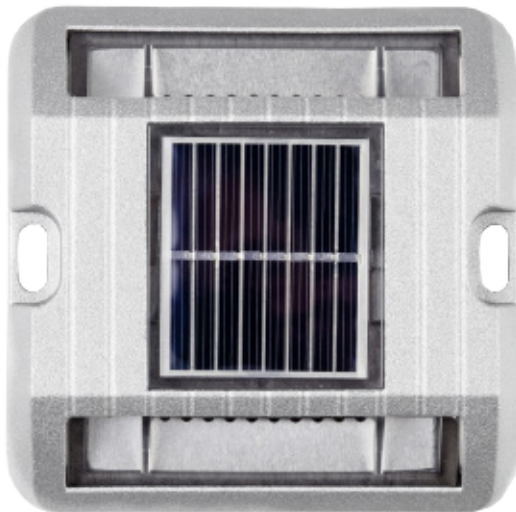
Resistance



Narrow carriageway in Grenoble



Photo Jérôme Dedlytsche



SOLAR



ECO-118

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

- Fully self-contained square surface beacon
- Height of 20 mm unsuitable for roadway use
- Easy to install: 2 anchor screws supplied
- Unidirectional beaoning with 2 or 4 LEDs or bidirectional beaoning 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

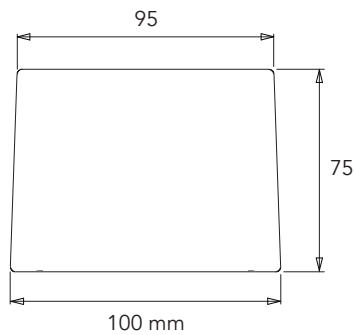
2T
2 Tonnes

Resistance



Pedestrian pathway in Oullins

Light design Cobalt - Photo Gilles Di'Nallo



VERY LOW-VOLTAGE



ECO-STONE99

Designed to mark and illuminate parks, paved squares, fountains, pathways, staircases and terraces

- 12 V/DC embedded paving stone
- Very low consumption, 0.88 W to 1,4 W
- Flush with the roadway so no hindrance for disabled users
- Able to withstand the weight of light vehicles
- Single LED beacon

IK07
2 Joules

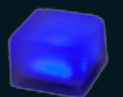
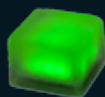
Impact

IP68
5 Meters

Protection

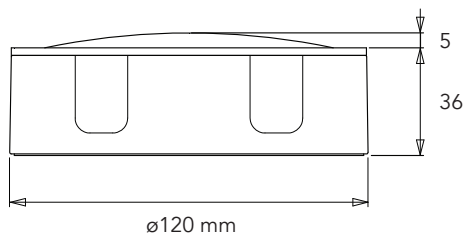
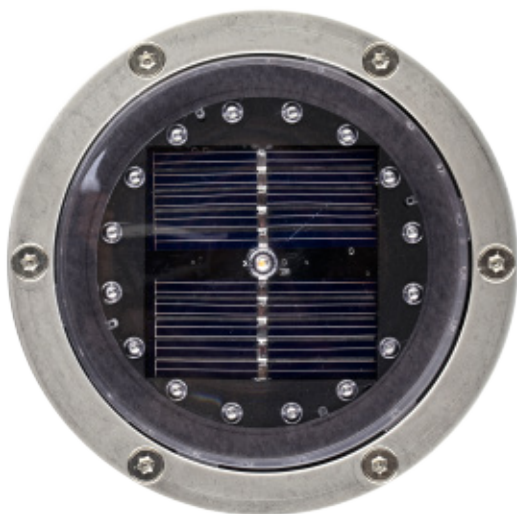
2T
2 Tonnes

Resistance



Landscaping sculpture in Meyrin (Switzerland)

Design Gilles Brusset - Photo Pierre Yves Brunaud



SOLAR 

ECO-120

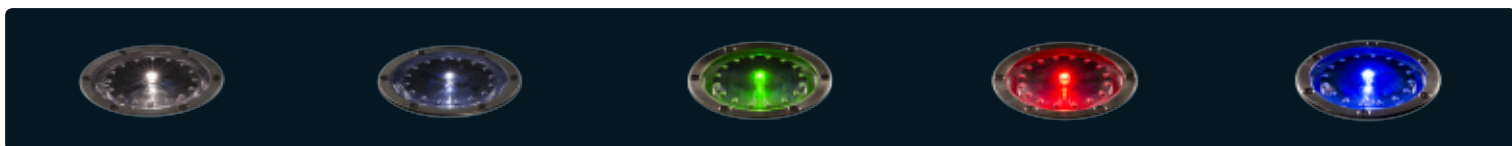
Designed to mark and illuminate parks, eco-districts, cycle lanes, pedestrian paths

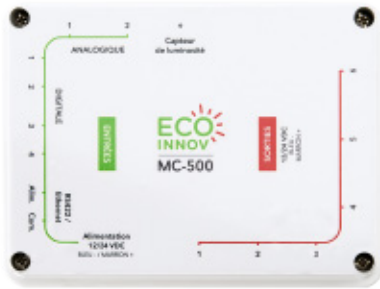
- Fully self-contained embedded solar stud
- LED module maintenance via the cover
- Can withstand the weight of light vehicles
- Flush with the roadway so no hindrance for disabled users
- 1-LED vertical Beacon, 360° visibility
- Steady or flashing modes (special programs are available upon request)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

IK10
20 Joules
Impact

IP68
5 Meters
Protection

2T
2 Tonnes
Resistance





MC-500 Micro-controller

Light

Constant, blinking, sequential, intensity, ON and OFF time, night adaptation.

Interoperability

Speed radar, detection loop, traffic light, light sensor, clock, retractable bollard, automaton.

Reporting

Consumption, failure and peripheral monitoring.

Communication

Remote control, transmission of logs, alerts.

Bring intelligence to lighting

The micro-controllers of the MC-500 range are real brains, allowing to manage the lighting behaviour of low-voltage studs in accordance with pre-programmed events: the studs flash if the vehicle's speed is too high, synchronisation with the street lights or the traffic lights, etc.

The options are limitless, including remote-controlled management of the devices if equipped with a 4G router.

The devices in our range of smart beacon controllers are very versatile products that can provide made-to-measure management of our different types of low-voltage studs: LED power management depending on the exterior brightness, switching on duration, fully configurable light modes.

Finally, they allow remote technical monitoring of the system and collect information to optimize the safety of equipped facilities.

TECHNICAL CHARACTERISTICS

- Standard model dimensions: 200 mm x 160 mm x 80 mm
- Power supply: 12 V DC or 24 V DC
- Outputs: 6 lines of studs as standard - extension possible
- Inputs: digital or analog to connect the signaling equipment
- IP65 for installation in electrical cabinet
- IP68 version for buried manholes on request

Power supply

Very low voltage power supply

Sizing according to your projects:

- IP68 case
- Custom power
- Special dimensions
- Potentiometer

Electrical cabinet

Custom design:

- Fully equipped (MC-500, power supply, wiring, protections, etc.).
- Cable glands for inputs and outputs
- Dekra certification



Options

LED TEMPERATURE AND COLOURS

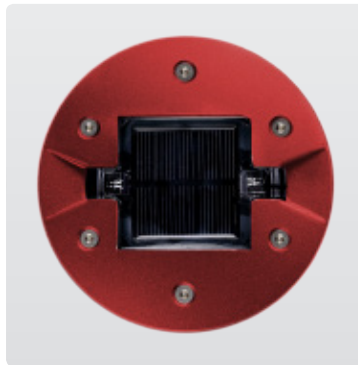


LIGHT



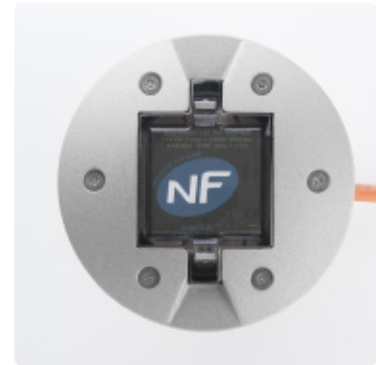
- Constant
- Blinking
- Synchronised blinking
- Glowing
- Flashing
- Firefly
- Candle
- Breathing
- Glittering
- Sequential
- Grazing

COVER



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

BRAND



- Logo inlay
- Coat inlay

Accessories



Anti-theft screw



Snow cover



IP68 plug-in connectors

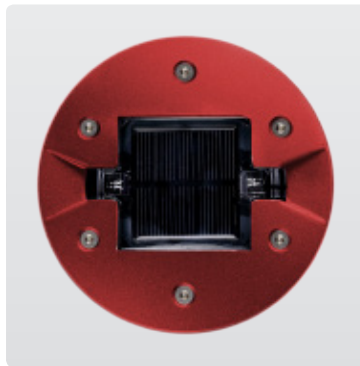
Options

LED TEMPERATURE AND COLOURS



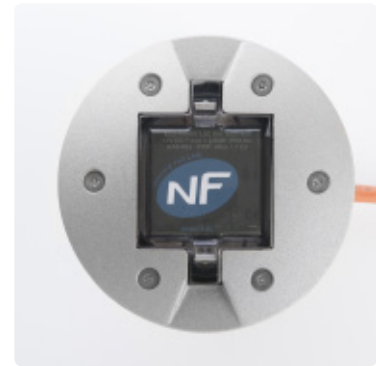
LIGHT

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



COVER

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



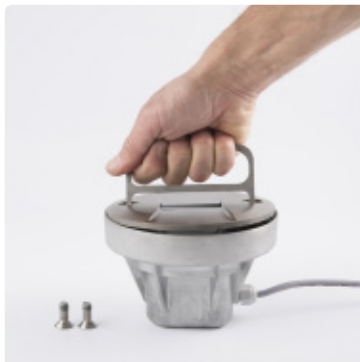
BRAND

- Logo inlay
- Coat inlay

Accessories



Anti-theft screw



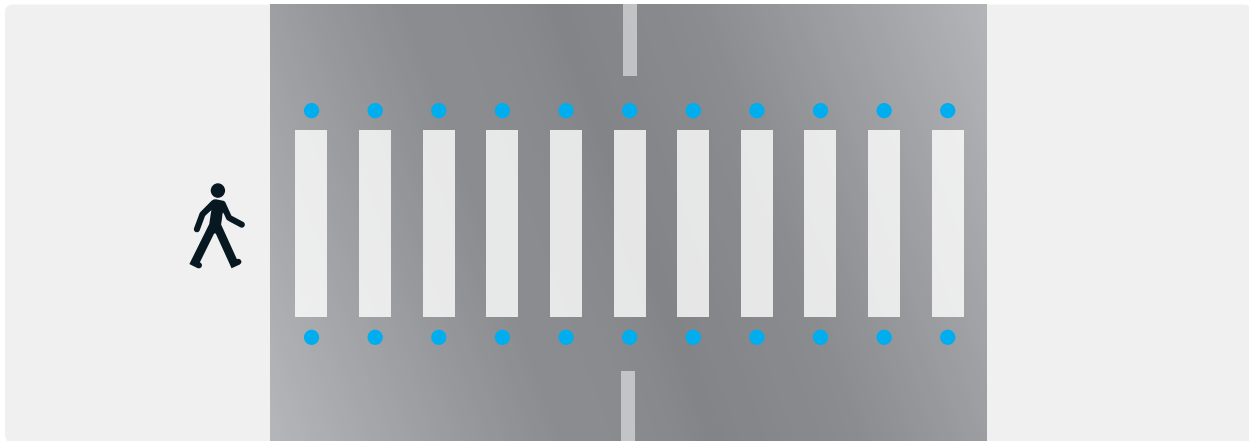
Snow cover



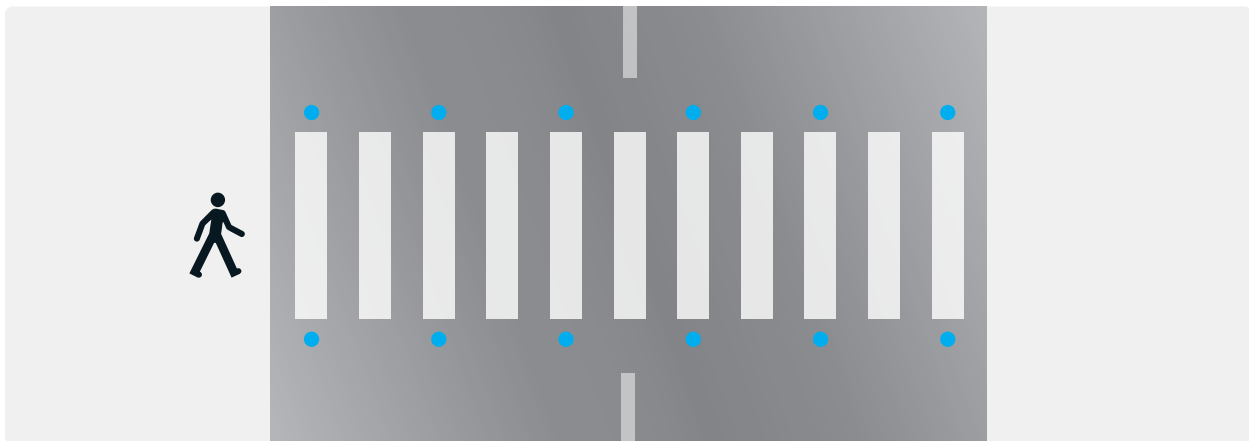
IP68 plug-in connectors

Objectives

- Strengthen pedestrian safety
- Attract the attention of motorists
- Encourage motorists to slow down



Option 1. Recessed lighting with a stud at either end of each white stripe.

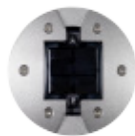


Option 2. Recessed markers with a stud at either end of every second white stripe.

SOLAR



- Embedded stud ECO-143
- Bidirectional 1+1 LED
- Steady blue



ECO-143

VERY LOW-VOLTAGE



- Embedded stud ECO-848
- Bidirectional 8+8 LED
- Steady blue

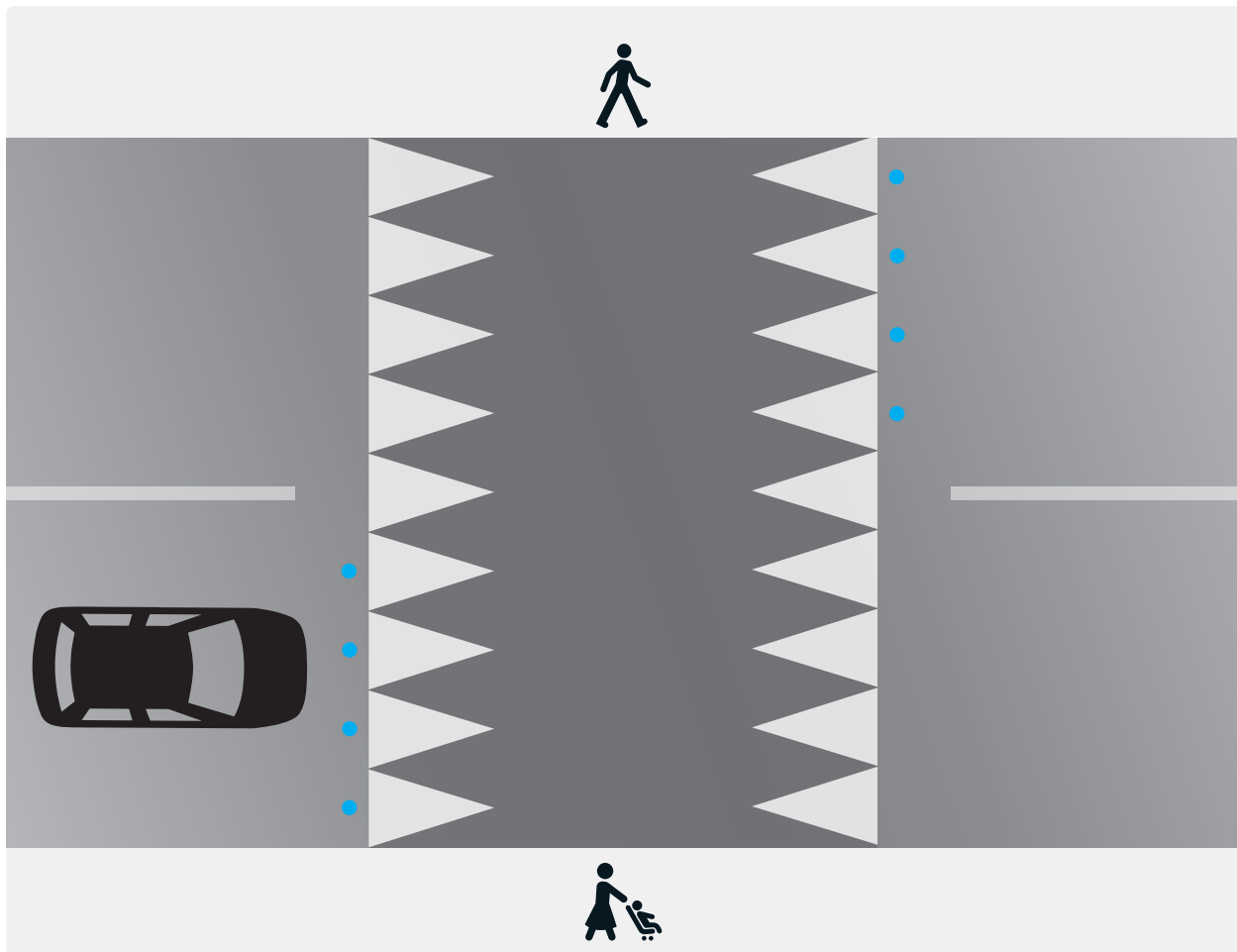


ECO-848

Road beaconing is used to improve the safety of users, reduce or eliminate energy costs and embellish structures.

Objectives

- Attract the attention of motorists
- Encourage motorists to slow down

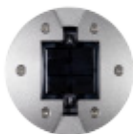


Recessed markings with a stud in front of each "shark tooth" on the entry side of the platform only.

SOLAR



- Embedded stud ECO-143
- Unidirectional 2 LED
- Flashing white



ECO-143

VERY LOW-VOLTAGE



- Embedded stud ECO-845
- Unidirectional 8 LED
- Flashing white

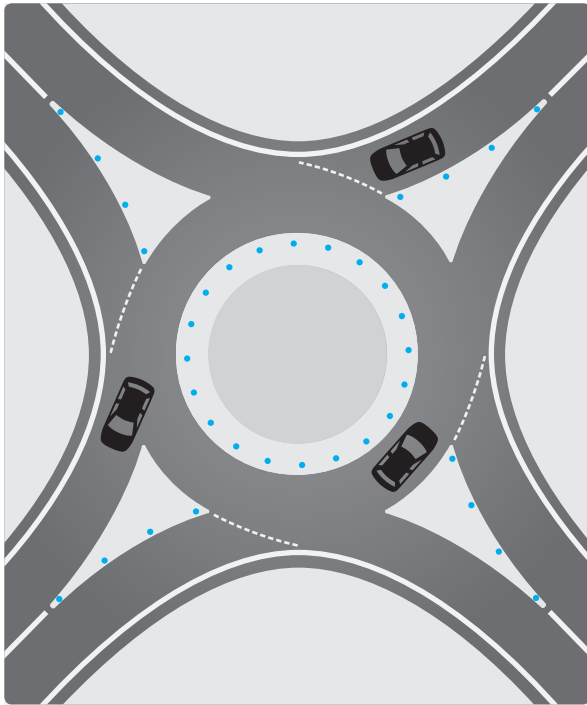


ECO-845

Ask us for advice to adapt our solutions to the specificities of your project. This information is indicative and Eco-Innov cannot be held responsible for any claims.

Objectives

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



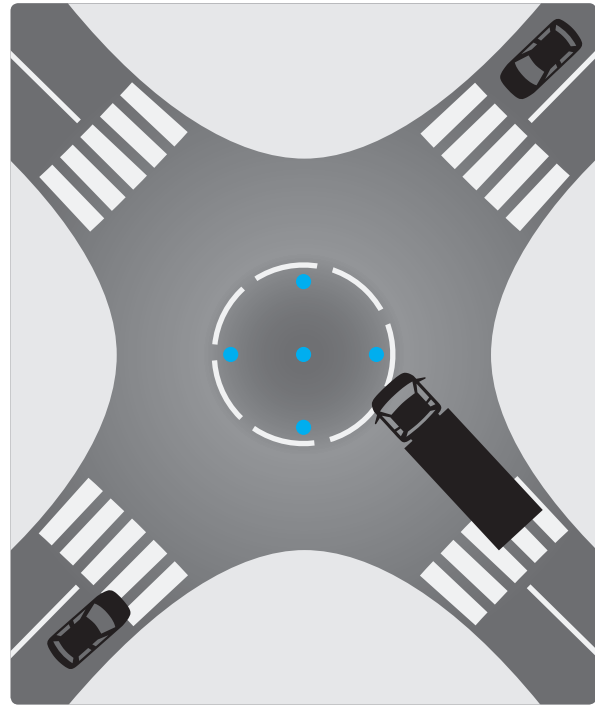
ROUNDAABOUT

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 ROUNDAABOUT

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

SOLAR



- Embedded stud ECO-142
- Unidirectional 3 LED
- Flashing white



ECO-142

VERY LOW-VOLTAGE



- Embedded stud ECO-870
- Omnidirectional 24 LED
- Steady blue

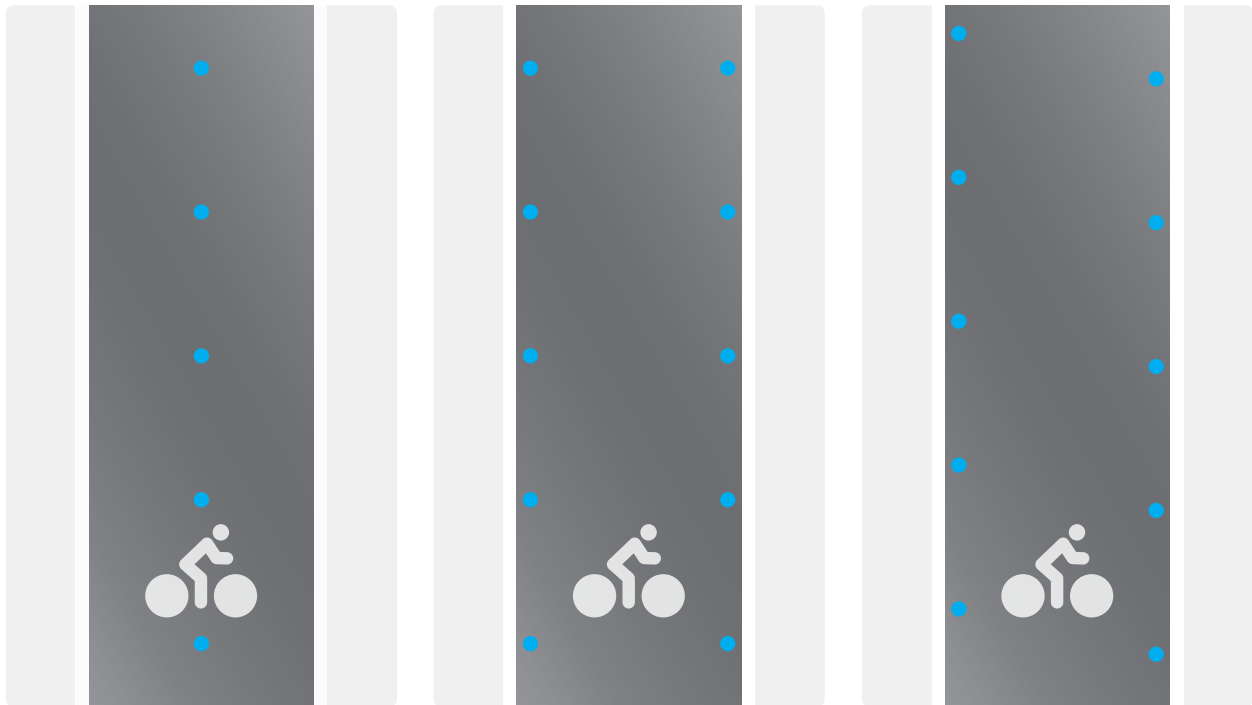


ECO-870

Road beaconing is used to improve the safety of users, reduce or eliminate energy costs and embellish structures.

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.

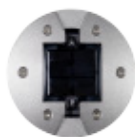
3. Staggered marking

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

SOLAR



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

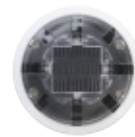


ECO-143

VERY LOW-VOLTAGE



- Embedded stud ECO-835
- Omnidirectionnel 16 LED
- Steady blue



ECO-835

Ask us for advice to adapt our solutions to the specificities of your project. This information is indicative and Eco-Innov cannot be held responsible for any claims.

Custom project

Illumination of a fountain
for the city of Aubenas.

Submerged ECO-57 solar studs,
glow program.

Light design : Cobalt - Photo : Gilles Di Nallo



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

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LED BEACONING

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