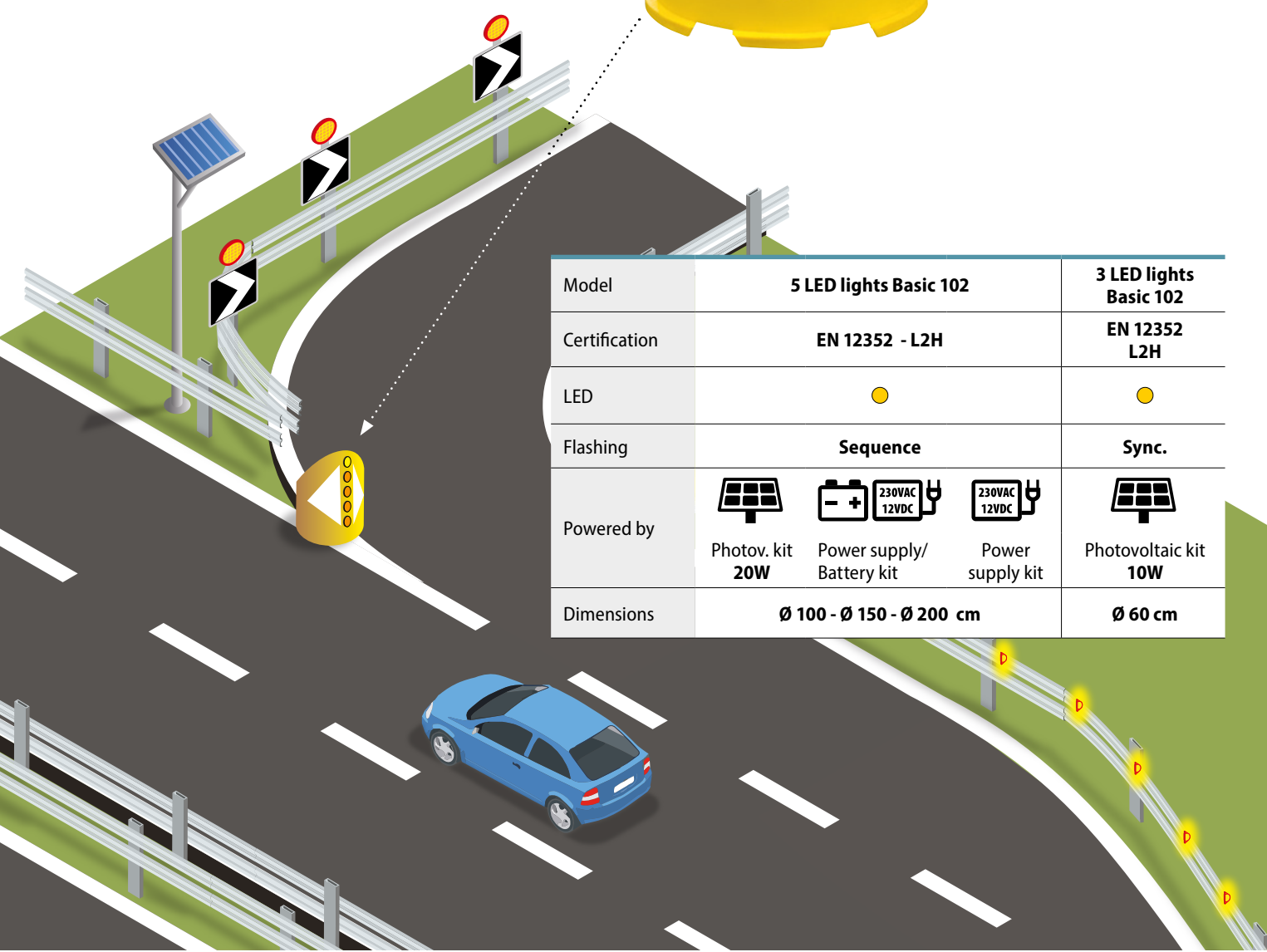# Dividing marker

Ideal for junctions, cusps and other dangerous spots.

Operating with photovoltaic panel or 230 VAC.

LED Basic 102 sequential.

Arrows in Class 2 film.

Shock resistant.

Various sizes available.

SEQUENCE

Model	5 LED lights Basic 102			3 LED lights Basic 102
Certification	EN 12352 - L2H			EN 12352 L2H
LED	🟡			🟡
Flashing	Sequence			Sync.
Powered by	Photov. kit **20W**	Power supply/ Battery kit	Power supply kit	Photovoltaic kit **10W**
Dimensions	Ø 100 - Ø 150 - Ø 200 cm			Ø 60 cm

Dangerous points kit

LED markers powered by a compact photovoltaic kit.

Ideal for dangerous points, roundabouts and fatal edges.

The kit includes:
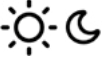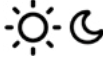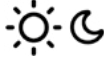
SIDE 25: *LED marker single side amber*

Box 303: *junction box 2/3 out,TH 392, IP68, with cap.*

Compact photovoltaic kit
20W *mounting plate- Ø 60.*

PV 20W

SIDE 25

BOX 303
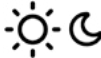
Number of connected markers:

3	6	7	15	15	30
Flashing on time **50%**	Flashing on time **50%**	Flashing on time **20%**	Flashing on time **20%**	Flashing on time **10%**	Flashing on time **10%**

Watch the video:

Ecosolar

BASIC 201

BASIC 102

Certification	Basic 201	**EN12352 - L8H**
	Basic 102	**EN12352 - L2H**
LED colour	🟡	
Powered by	📶	Photovoltaic
Working	☀️ 🌙 **24 hrs**	🌙 **Optional only night**
Fixing	**Ø 60**	
	Ø 90	
Box dimensions	1 Basic 201	**210 x 210 x 120 mm**
	2 Basic 201	**600 x 2 10 x 120 mm**
	2/4 Basic 102	**600 x 160 x 60 mm**

Ecosolar *are powered only by photovoltaic energy.*

For solutions powered by the electrical network, see **LED Box** *on the next page.*

ECOSOLAR 2x BASIC 201

ECOSOLAR BASIC 201

ECOSOLAR BASIC 201

Ecosolar *is a line of products with a wide range of* **solar powered devices** *designed to signalize dangerous situation and integrate the traffic signs.*

The Ecosolar line uses **LED lights certified to EN 12352**.

The compact design and the **extremely easy installation** *make the Ecosolar the perfect choice for any type of pole and traffic signs.*

The Ecosolar line is designed to be installed also on existing traffic signals.

Power saving options ensures high autonomy even in critical weather conditions.

To ensure the correct operation of the devices it is however necessary that the photovoltaic panel receives direct sunlight at least during the central part of the day.

photovoltaic panel **5 W**	photovoltaic panel **10 W**	photovoltaic kit **10 W**	photovoltaic kit **10 W**	photovoltaic kit **10 W**
Basic 201	Basic 201	Basic 201	Basic 102	Basic 102 double side
some example of applications:				

Ecosolar

TECHNICAL FEATURES

RoHS COMPLIANT CE III

Description
Line of products with a wide range of solar powered devices. Designed to signalize dangerous situation and integrate the traffic signs. Version of the opening box(*)

OPTICAL FEATURES

Light source	1xBasic 201	2xBasic 201	2xBasic 102	4xBasic 102
Optics	Single side	Single side	Single side	Two sides
EN12352 Class	L8M	L8M	L2H	L2H
Color	Amber			
Optical Goup Life	> 50'000 ore			

ELECTRICAL FEATURES

Panel peak power	5 W	10 W	10 W	10 W
Power consumption	0.8 W	1.5 W	0.8 W	1.5 W
Autonomy without sun	25 days	25 days	35 days	25 days
Flashing	60 flash/min; 10% Duty cycle			
Insulation class	Class III			
Protection	Overvoltages; Overcurrents			

MECHANICAL FEATURES

Box dimensions	210 x 210 x 120 mm	600 x 210 x 120 mm	600 x 160 x 60 mm	600 x 160 x 60 mm
Total Weight	6 Kg	10 Kg	18 Kg	19 Kg
Operating temperature	-10 °C ÷ +55 °C			
Fixing	Central mount	Central or flag mount	Central mount	Flag mount
Opening version*	Available	Available	-	-

Rev. 4.0		Approved TEC		Approved AQ
26/09/2023				

LED Box

LED Box *is a family of products designed to keep a low impact in aesthetics while delivering a great active safety signal.*

They are provided as standard with external control, but there are some models with integrated control unit or with 230 VAC power supply.
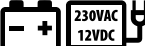
The **LED Box** *external control can be used with:*

- *Our Compact Photovoltaic Kit with S600 controller.*
- *Our Box and control units (see pages 10-11).*
- *Our DIN rail mountable flashing control unit (see page 32).*

BASIC 304

BASIC 102

BASIC 201
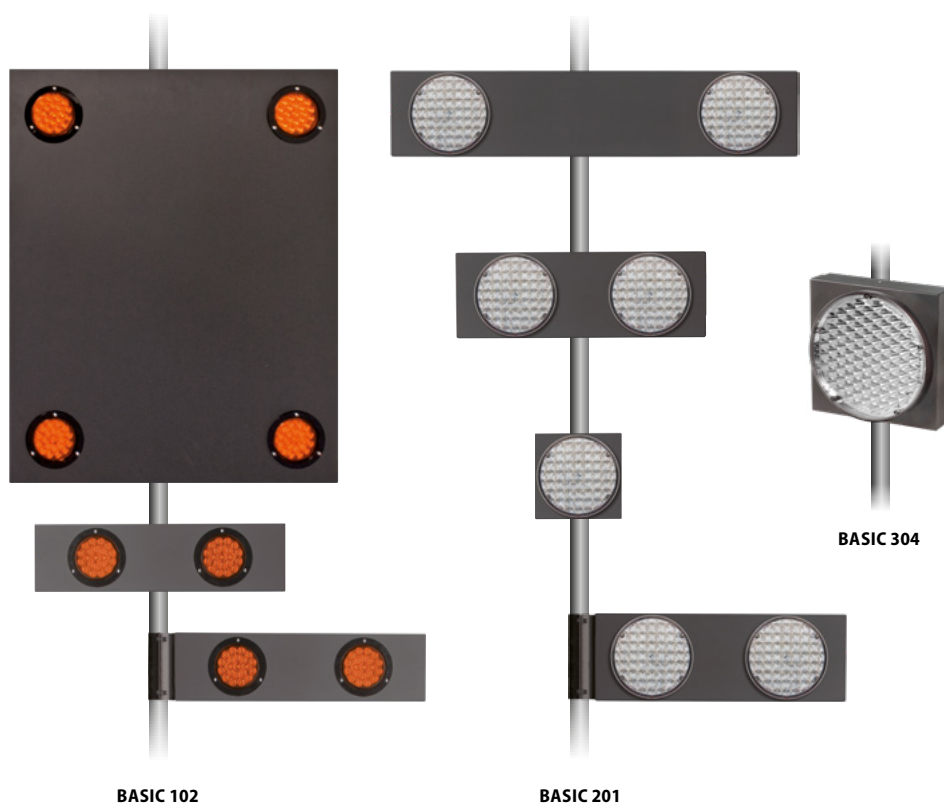
Some examples of applications:

Certification	Basic 201	**EN12352 - L8H**	
	Basic 102	**EN12352 - L2H**	
	Basic 304	**EN12352 - L9H L9M**	
LED colour	🟡		
Input voltage	**230 VAC** **12 VDC**	Other voltages on request	
Powered by	Power supply kit	Power supply kit/Battery	
Fixing	**Ø 60** **Ø 90**		
Box dimensions	1 Basic 201	**210 x 210 x 120 mm**	Other dimensions on request
	2 Basic 201	**600 x 210 x 120 mm**	
	2 Basic 201	**900 x 210 x 120 mm**	
	2 Basic 102	**600 x 160 x 60 mm**	
	4 Basic 102	**800 x 1000 x 45 mm**	
	1 Basic 304	**360 x 360 x 115 mm**	

D-Solar

D-solar *are LED lights with photovoltaic suitable for highways and heavy traffic areas.*

They are ideal for cuspidal points, crossroads and fatal edges.

The photovoltaic kit is bigger than the one used for the Ecosolar and that makes them a perfect choice for application with critical weather conditions.

Easy to install and to maintain.

20 W
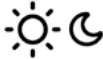
10 W

BASIC 302

BASIC 200

Approved	Basic 200 Basic 302	**EN12352 - L8H** **EN12352 - L9M**	
LED colour	🟡		
Powered by	🔆	Photovoltaic kit	**10 W** Basic 200 **20 W** -Basic 302
Working	☀️🌙	**24 hrs**	🌙 **Optional only night**
Fixing	**Ø60**		
Dimensions	Basic 200 Basic 302	**Ø198 x 65 mm** **Ø335 x 110 mm**	

D-Solar

TECHNICAL FEATURES

RoHS COMPLIANT · CE · III
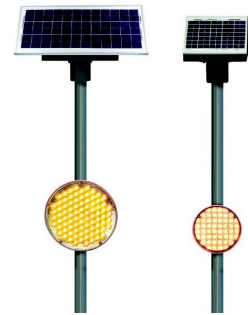
Description

LED Warning lights with photovoltaic suitable for highways and heavy traffic areas.They are ideal for cuspidal points, crossroads and fatal edges.

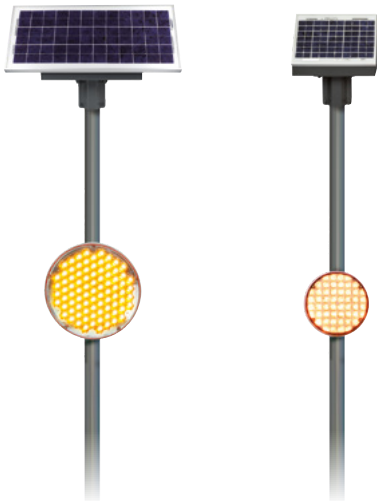| OPTICAL FEATURES		
Light source	Basic 200	Basic 302
Optics	Single-sided	
EN12352 Class	L8M	L9M
Color	Amber	
Optical Goup Life	> 50'000 ore	
ELECTRICAL FEATURES		
Panel peak power	10 W	20 W
Power consumption	0.8 W	1.5 W
Autonomy without sun	12 days	10 days
Flashing	60 flash/min; 10% Duty cycle	
Insulation class	Class III	
Protection	Overvoltages; Overcurrents	
MECHANICAL FEATURES		
Warning light dimensions	Ø 200 x 65 mm	Ø 333 x 110 mm
Total Weight	9 Kg	18.5 Kg
Operating temperature	-10 °C ÷ +55 °C	
Fixing	Brackets for pole diameter Ø 60 mm included	

Rev. 3.0		Approved TEC		Approved AQ
17/03/2022				

Safety Radar is very effective device for speed reduction nearby cities, dangerous points, motorway ramps, one-way street etc.

Flashing lights system with doppler radar which detects the car and the speed and sends a signal to the lights if the limit has been exceeded.

Available with LED message panel..

Signage panel not provided.

Radar LC/LCL

Radar FALCON BASIC

BASIC 201

Certification	**Basic 201**	**EN12352 L8H**		
LED colour	🟡			
Powered by	**230VAC 12VDC** Power supply kit	**– + 230VAC 12VDC** Power supply/ Battery kit	Photovoltaic kit	**50 W** **100 W** con display
Radar range	Radar LC: **100 m**	Radar LCL: **200 m**		
Diplay dimensions	**850 x 190 x70 mm**		Typeface height	**100 mm**
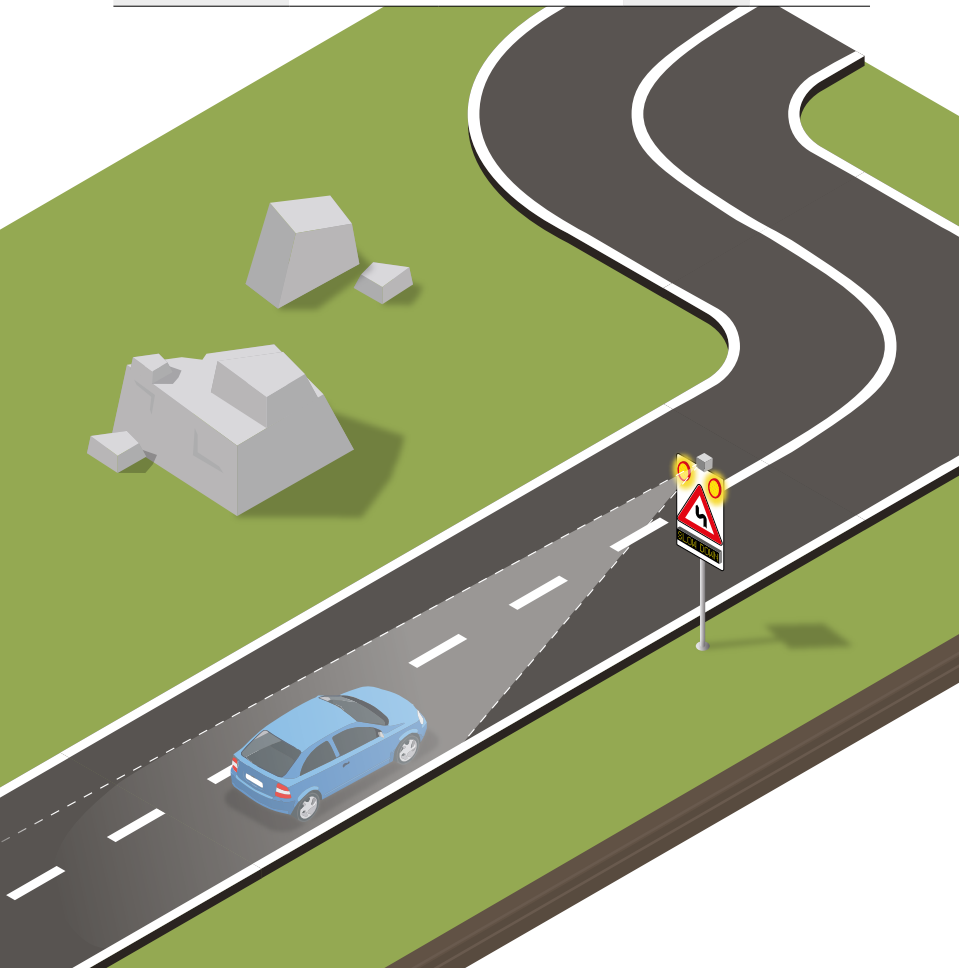
Exemples of application: **Safety Radar**

Safety Radar Solar box

Safety Radar Solar Box is very effective device for speed reduction nearby cities, dangerous points, motorway ramps, one-way street etc.

Flashing lights system with doppler radar which detects the car and the speed and sends a signal to the lights if the limit has been exceeded.

Easy retrofit of existing signs.

Radar LC/LCL   Radar FALCON BASIC

LEDBOX BASIC 102   LEDBOX BASIC 201

Certification	Basic 201 Basic 102	EN12352 L8H EN12352 L2H
LED colour	🟡	
Powered by		Photovoltaic kit **20 W**
Radar range	Radar LC: **100 m**	Radar LCL: **200 m**
Led Box dimensions	1 Basic 201 2 Basic 102	**210 x 210 x 120 mm** **600 x 160 x 60 mm**
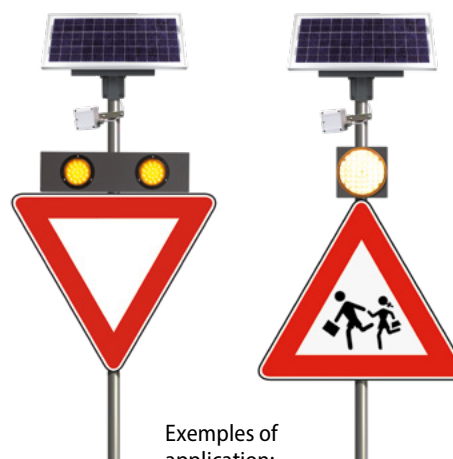
Exemples of application:
Safety Radar Solar box

Animal Guardian 4

Animal Guardian is an innovative device to prevent the fatal street crossing by the wild animals.

It's powered from a high efficiency solar module and it is working during the night emitting both a luminous signal and a constant sound.

The activation is given by the vehicle head lights.

LED colour	🔵 🟠 🟢 **+ beep**
Powered by	**Photovoltaic panel** with auxiliary Li-Pol Battery
Working	🌙 **Only night**
Fixing	**Screw**
Dimensions	**36 x 160 x 70 mm**

Animal Uni-Reflector

Animal Guardian can be integrated with **Animal Uni Reflector**.

On the side an example of minimum recommended installation:

alternate each Animal Guardian with three Animal Uni-Reflectors.

Animal Uni-Reflector

Animal Guardian 4

Reflective colour	⚪	🔵 optional
Fixing	**Screw**	
Dimensions	**45 x 197 x 64 mm**	

Animal Guardian 4

TECHNICAL FEATURES

Description	
Innovative device to prevent the fatal street crossing by the wild animals.	

OPTICAL FEATURES		
Light source	3 high luminous power LED	
Colour	Blue, Green, Yellow	
ELECTRICAL FEATURES		
Power supply	Photovoltaic panel	
Insulation class	Class III	
Radio source	Integrated speaker, possibility of connecting an external speaker	
Sound frequency	4 KHz / 8 KHz	
Switch functions	ON 4kHz / OFF	ON 8kHz / OFF
MECHANICAL FEATURES		
Material	Plastic shock resistant and UV resistant	
Dimensions	160 x 70 x 36 mm	
Weight	260 g	
Fixing	4 anti-theft screws	

Animal Guardian 4

Rev. 3.0		Approved TEC		Approved AQ
14/04/2023				

Animal Uni-Reflector

TECHNICAL FEATURES

Description	
ANIMAL UNI-REFLECTOR is a passive warning reflector for wildlife.	

MECHANICAL FEATURES	
Material	Light and very resistant plastic
Weight	100 g
Dimensions	197 x 64 x 45 mm
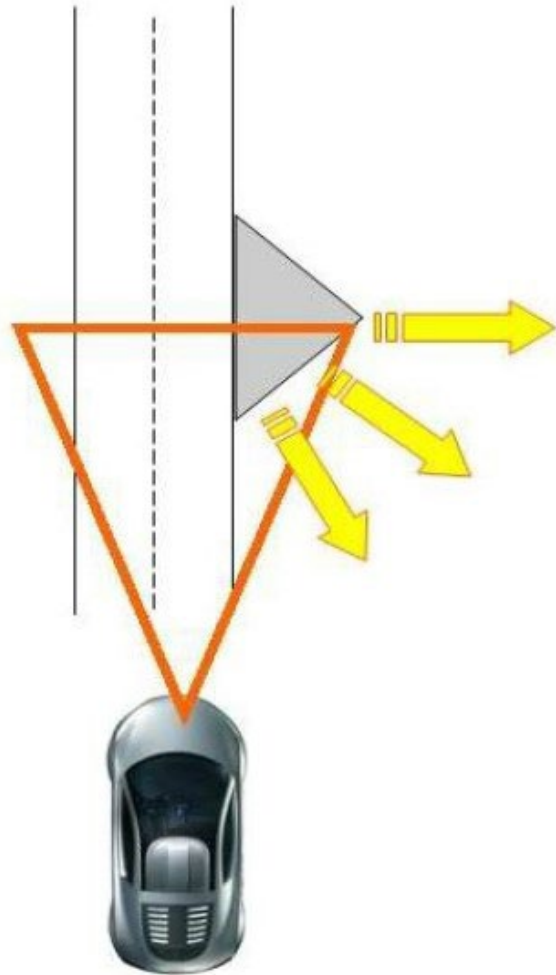
Tempo Flash

TempoFlash is a safety device that advises the road users about the ice condition of the road surface.

When the outside temperature goes below 3°C the LED flashing double system activates.

The temperature can also be displayed.

Available version with a high precision temperature probe to insert directly into the ground.

The system sends an SMS at a set temperature and can be used in "remote control mode" at any time to obtain information (temperature, system status etc.).

Certification	Basic 201	EN12352 L8H	
LED colour	🟡 LED lights	🔴 Display	
Powered by	230VAC 12VDC Power supply kit	🔋 230VAC 12VDC Power supply/ Battery kit	Photovoltaic kit
Power consumption	**13 W** max.	**+ 6 W** display	
Display	**740 x 310 x 70 mm**		
Digit height	**20 cm**	Reading distance	**100 m**

Time Box

Time Box *is ideal for schools, companies or others applications where it is important that the signalization it activated only in some hours of the day with a weekly programming.*
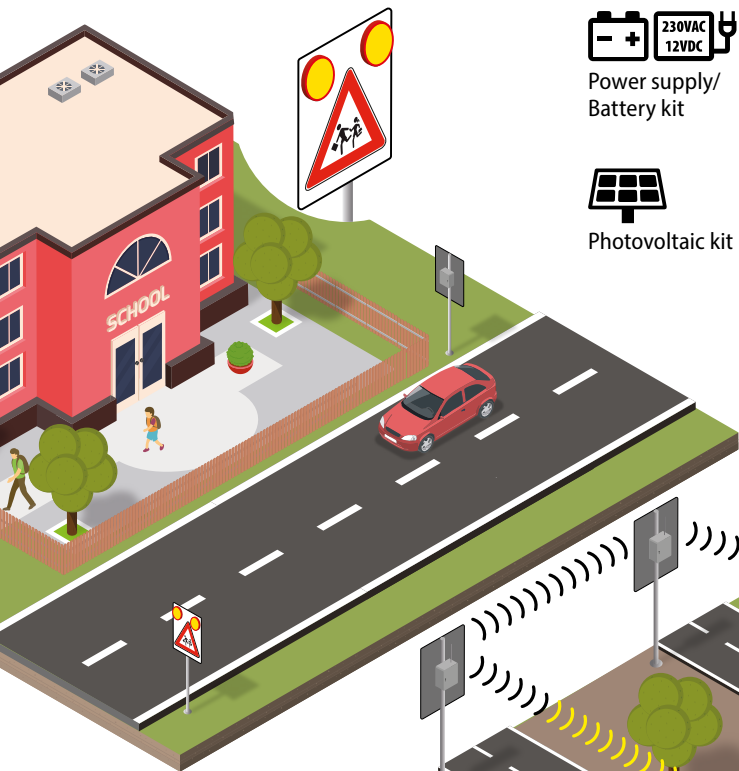
The system only operates at the scheduled time.

It's available also the **Time Box Pro** *with which is possible, through an antenna, to synchronize different systems with each other for application like* **Low Emission Zones***.*

Antenna for Time Box Pro

Certification	**Basic 201 EN12352 L8H**
Time Box consumption	0,5 W (42 mA @12 V)
Time Box Pro consumption	1 W (84 mA @ 12 V)

230VAC 12VDC

Power supply kit

230VAC 12VDC

Power supply/ Battery kit

Photovoltaic kit

Time Box

LEDBox

Traffic light

SCHOOL ZONE

Variable message panel
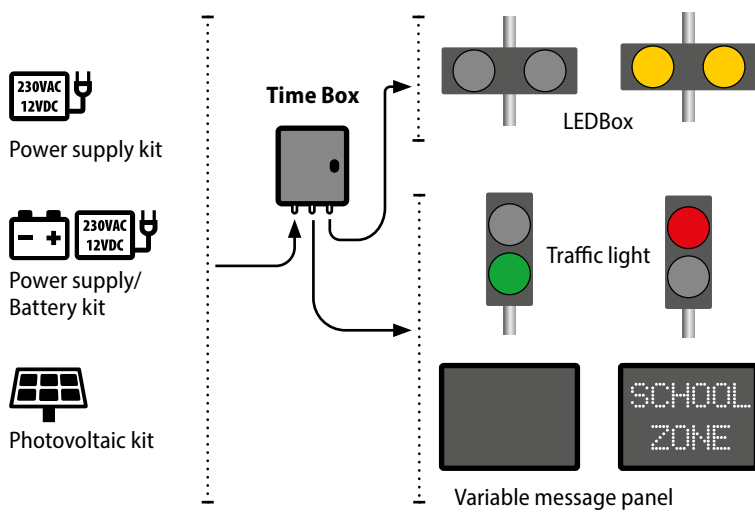
Time Box
application near school building
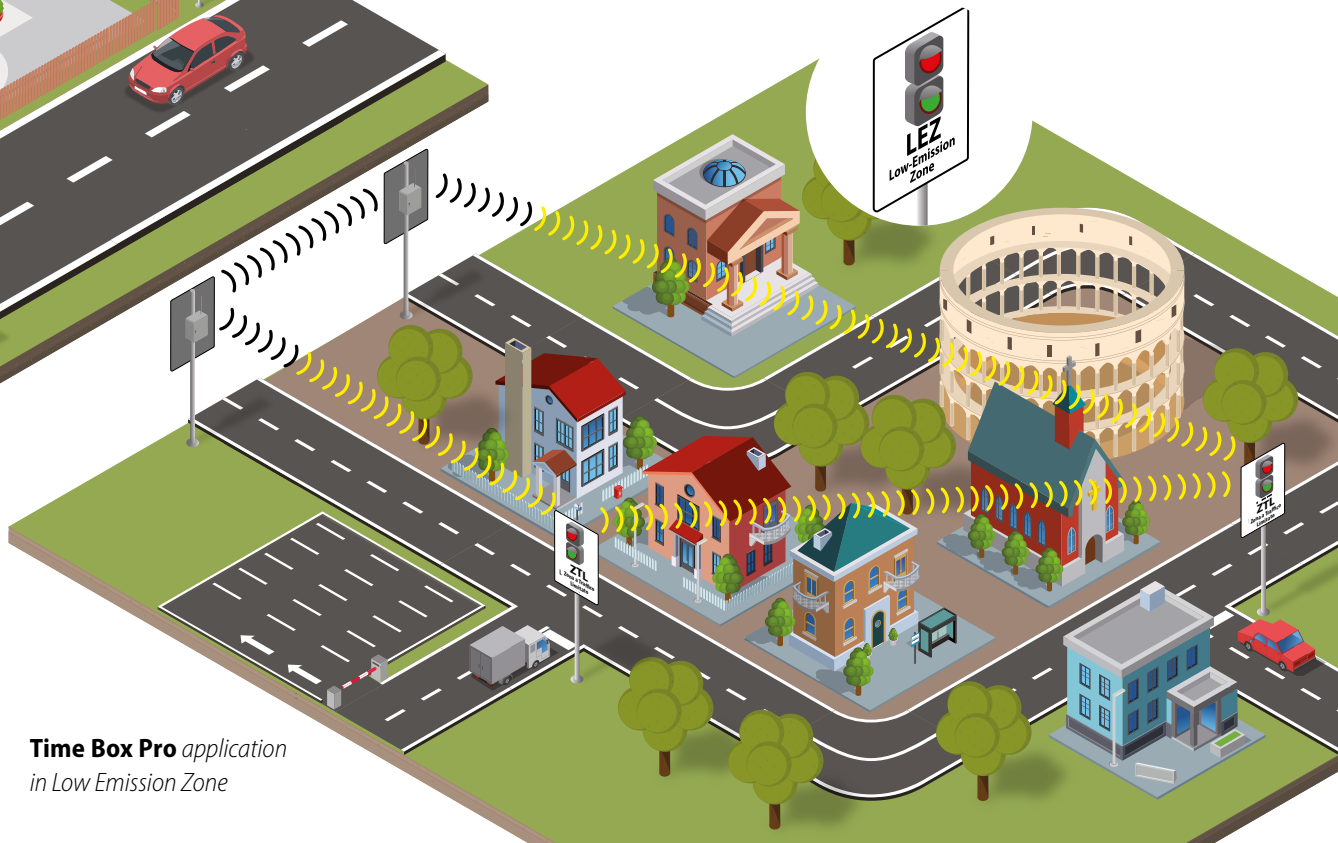
Time Box Pro *application in Low Emission Zone*

Wrong Direction Vehicle Detector

This system detects vehicles driving in the wrong direction using induction loops.

Photovoltaic power supply, 12 VDC or 230 VAC.

Control cabinet containing the CPU for managing and storing events, GPS module and control unit for LED flashers.

*A **wireless** connection between the control cabinet and flashers is available.*

Features:

- Vehicle detection by inductive-loop traffic detectors
- Sends an SMS or E-mail in case of anomaly, mulfunction or low battery.
- the System is equipped with a modem that stores data of the wrong way events
- Different working logics are available together with different types of flashing for Basic 302/201/200 (50%,10% and triflash).
- **Optional camera to send via E-mail or ftp the images or videos of the events.**
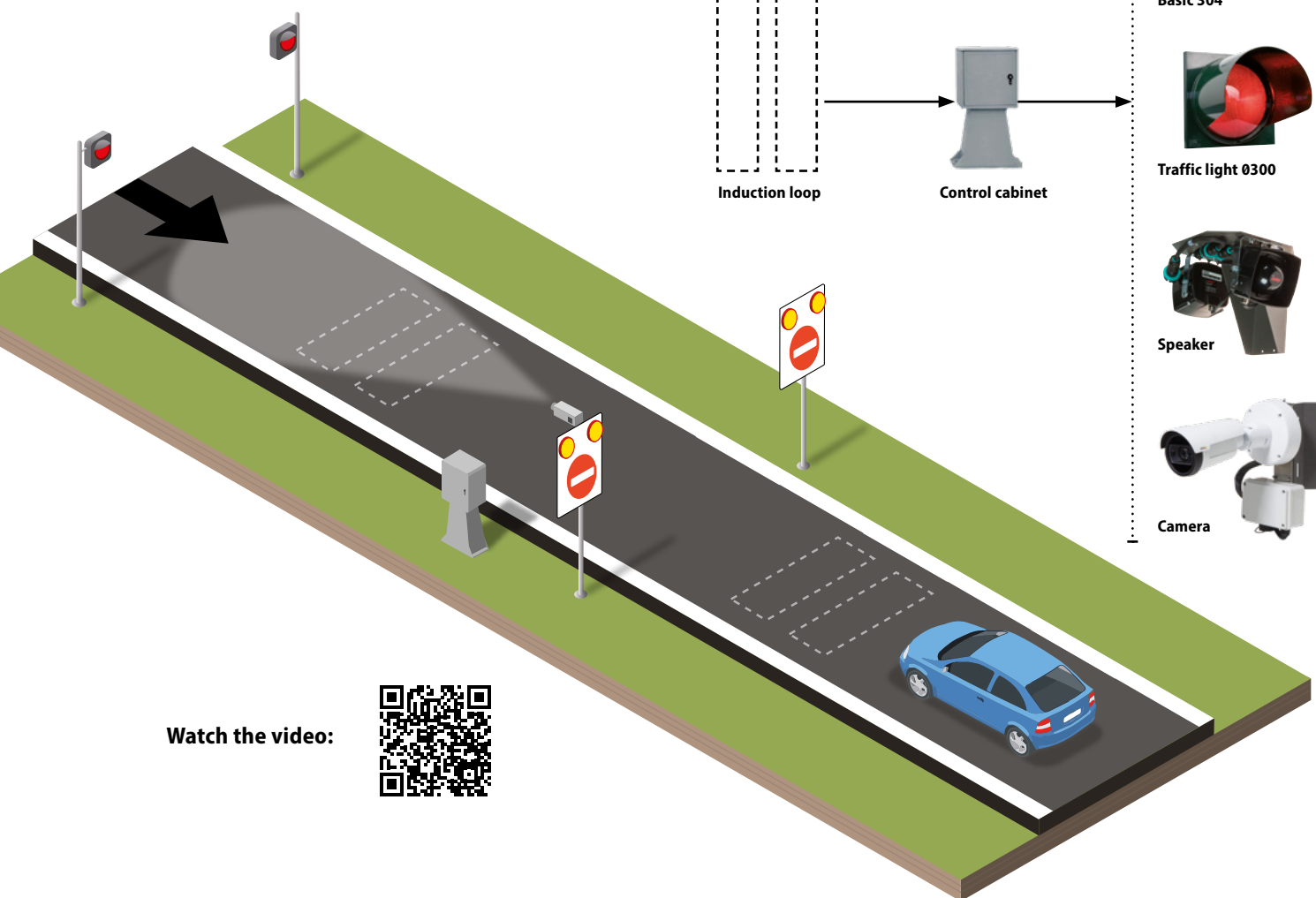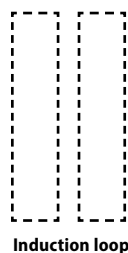
Optional:

Basic 304

Traffic light Ø300

Speaker

Camera

Induction loop   **Control cabinet**

Watch the video:

Vehicle Height Detector

The RAV is a system capable of detecting the height of vehicles in transit with only one sensor installed on the side of the road.
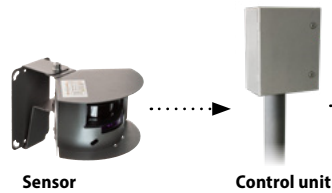
If the sensor detects that the maximum allowed height has been exceeded, the system

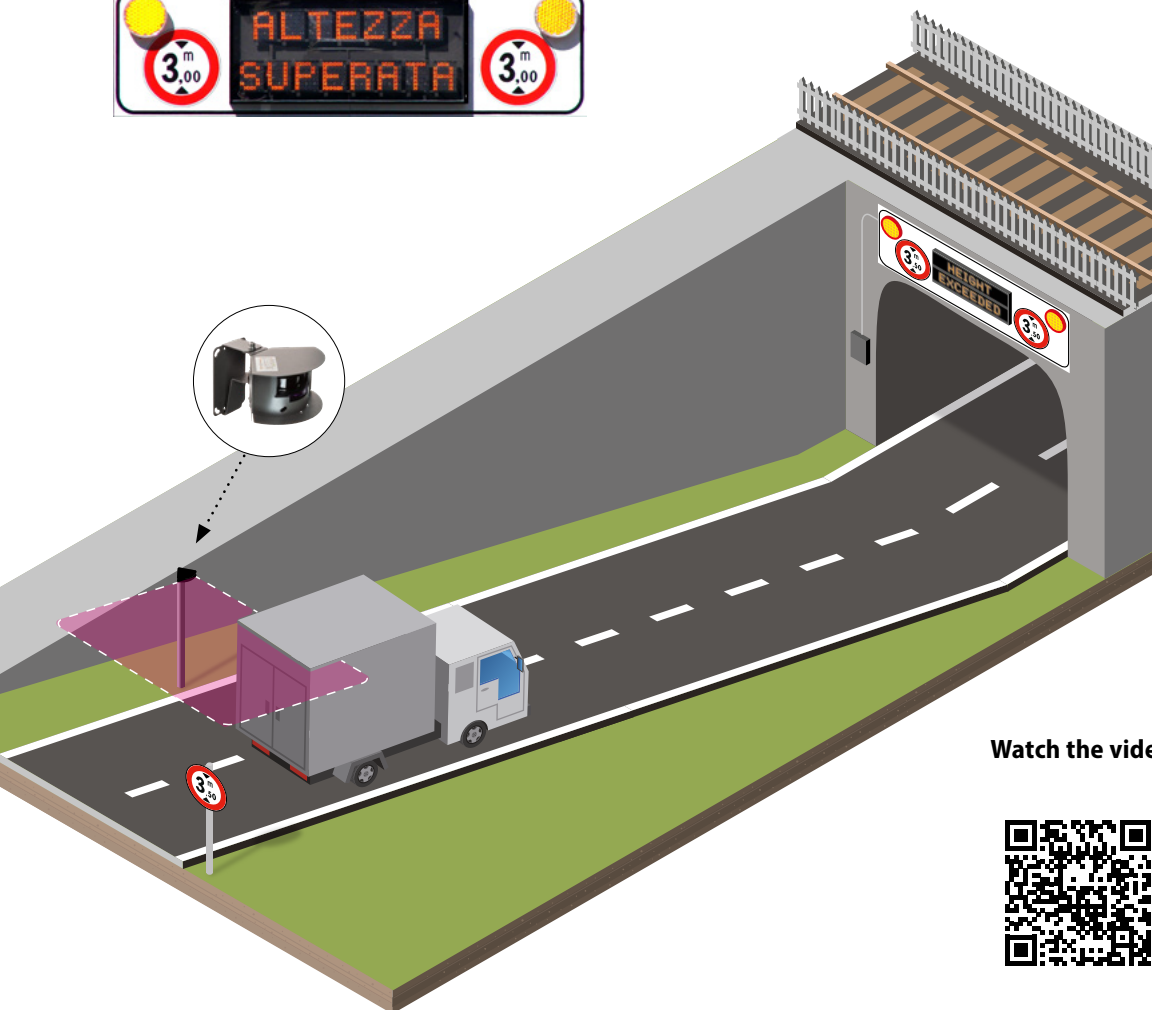*Activates a pair of flashers, a siren, a traffic light or a fixed message panel.*

*The RAV is i**deal for underpasses, tunnels, overpasses**, or any another application where exceeding the maximum allowed height can be dangerous.*

It is possible to define the length and width of the area of detection and the minimum size of the object to be detected.

*It is possible to have a **wireless** connection between the control unit and sensor in addition to the standard connection with cables.*

*The system is powered at **230V***

Optional:

Sensor   **Control unit**

Basic 304

Basic 201

LED traffic lights

Speaker

HEIGHT EXCEEDED

LED panel

ALTEZZA SUPERATA

HEIGHT EXCEEDED

Watch the videos:

DETAS SpA D-Power division - Via Treponti, 29 - 25086 Rezzato (BS) ITALY
Tel. +39 030 2594120 - info@d-power.com - **d-power.com**
ISO 9001 / ISO 14001 certified company

RAV mobile

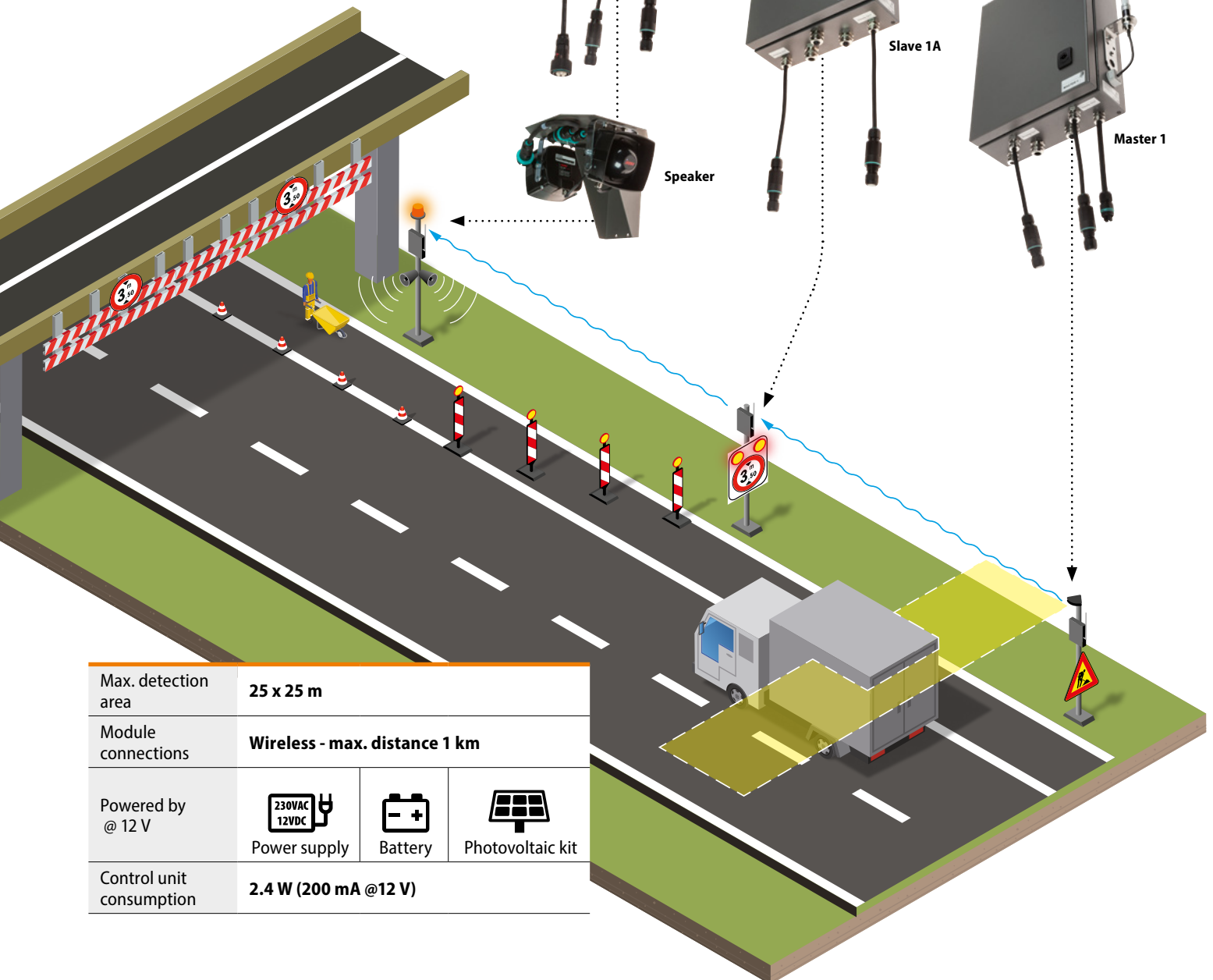## Height vehicle detector
for road work zone.

RAV Mobile is a system that detects the height of vehicles in transit to protect bridges or overpasses during maintenance operations.

Each module is equipped with fixed or flashing outputs.

Speakers *and* **360 ° LED beacons** *can be connected to a RAV Mobile module in order to promptly alert the workers in the working area.*

It is possible to define length and width of the detection area and also the minimum size of the object that has to be detected.

Programmable with IR remote control.

LED beacon

Sensor

Slave 1B

Slave 1A

Master 1

Speaker

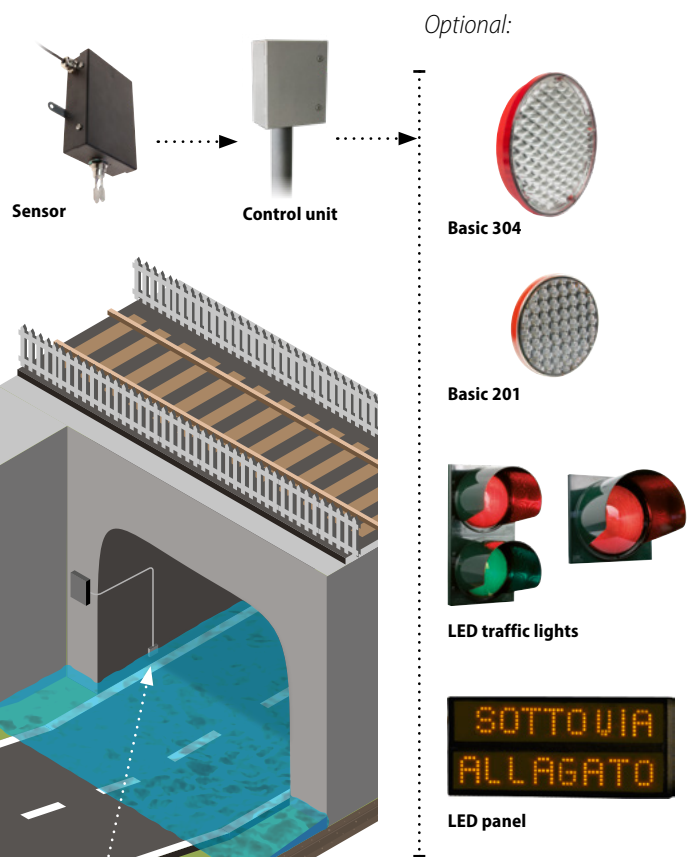| Max. detection area	25 x 25 m		
Module connections	Wireless - max. distance 1 km		
Powered by @ 12 V	230VAC 12VDC Power supply	Battery	Photovoltaic kit
Control unit consumption	2.4 W (200 mA @12 V)		

Underpass Flood Detector

RAS is a modular alarm system designed to warn road users in case of flooding of underpasses.

*The **capacitive technology sensor** is highly reliable and is able to detect flooding and generate an alarm that is transmitted to the control unit.*

The control unit is equipped with fixed or flashing outputs to which can be connected LED warning lights, traffic lights or LED message panel.

*RAS can be integrated with a **4G router** to send an alarm to the competent authorities.*

*The system can be powered at **230V** or with a **photovoltaic kit.***

Optional:

Sensor

Control unit

Basic 304

Basic 201

LED traffic lights

SOTTOVIA ALLAGATO

LED panel

Safety Cross

Safety system for crosswalks with pedestrian radar and flashing lights.

1. *The system starts to work when a pedestrian approaches the crosswalks zone within the sensor area.*

2. **The LED lights flash on both sides of the road through a wireless communication.**

No wiring inside the road.

Easy installation on existing signs.

Energy saving function.

Increased noise immunity.

New flash functions available.
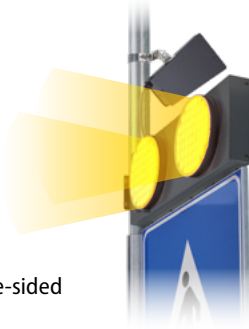
PHOTOVOLTAIC KIT 20 W

PEDESTRIAN SENSOR

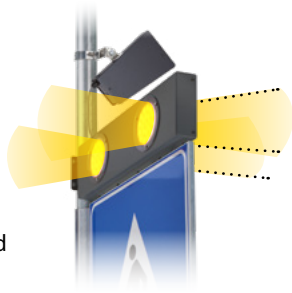**TOUCH BOTTON**

LEDBOX FLAG BASIC 102

LEDBOX BASIC 201

Single-sided

double sided

Certification	Basic 201 Basic 102	**EN12352 - L8H** **EN12352 - L2H**
LED colour	🟡	
Powered by	Photovoltaic kit	**20 W - 18 Ah**
Activated by	**Pedestrian sensor** **Touch button**	
Fixing	**Ø60** **Ø90**	
Box dimensions	Basic 201 Basic 102	**600 x 210 x120 mm** **600 x 160 x 60 mm**

Possible configurations:

Powered by	Activated by	LED Box
Photovoltaic kit	Pedestrian sensor Touch button alternatively	Basic 201 Single side Basic 201 Single side Basic 102 Single side Basic 102 Double side

DETAS D power

Activation of LED lights

SENSOR Height 3 m

DETECTION AREA 0,30 x 4 m

Ø 90   Ø 60   band-it
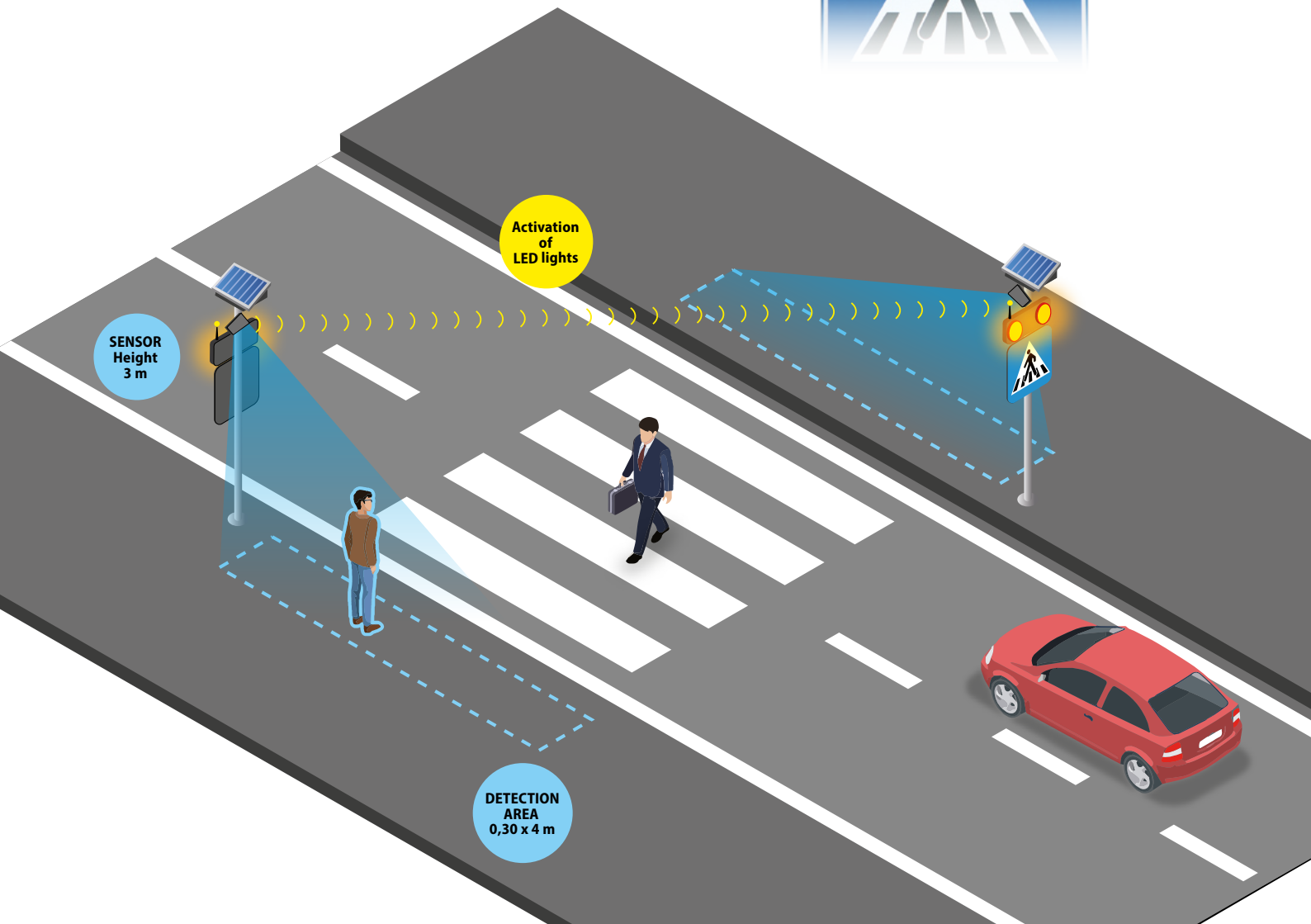
EyeWitness is a device that can be integrated to the D-Power systems for which the customer needs a "video evidence " or for which he has need of a visual feedback to be able evaluate any alarm or notification.

The system is activated by a contact generated by radar, laser or flooding sensor witch are present in our systems.
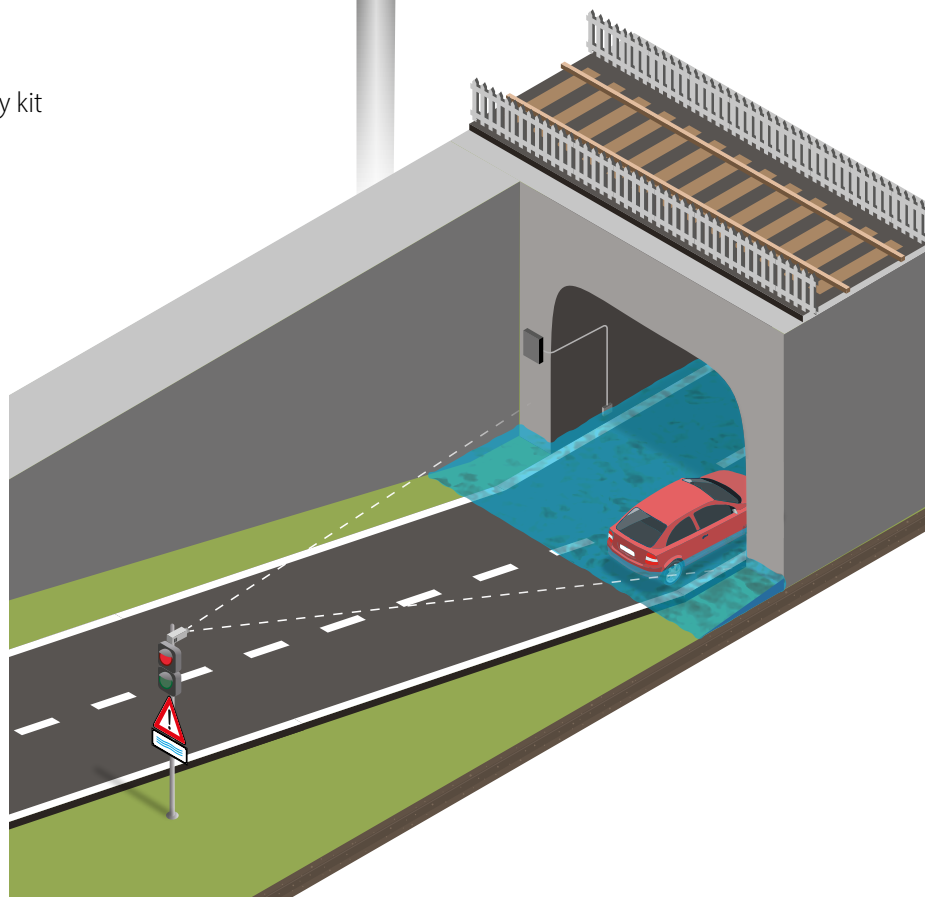
Ø 90 - Ø 60

Features

Control Unit

- Powered by 18Ah power supply/battery kit
- Modem CPU UMTS
- Discharge blocking circuit
- Surge protection and circuit breaker
- Camera activation with clean contact for connection to all in our systems

Camera

- Mounting bracket for **pole 60 mm, 90 mm or band-it**
- Connection to the control unit via cable with connector

BlackOut

The Blackout system provides an auxiliary power supply integrable in all systems in which is essential to report a power failure.

The power supply is activated directly from the lack of voltage on the line and provides power to the system with the included battery. The battery is automatically recharged from the line as soon as it is restored.
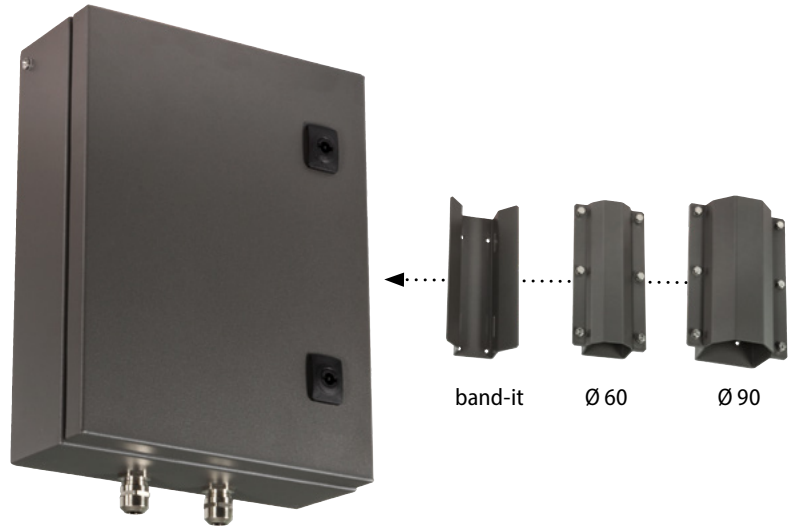
band-it   Ø 60   Ø 90

Powered by	Power supply/ Battery kit	**230 VAC/12 VDC Battery 18 Ah**
Activated by	**lack of voltage on the line**	
Fixing	**band-it - Ø60 - Ø90**	
Dimensions	**28 x 36 x 11 cm**	

Basic 304

Basic 201

230 VAC   **12 VDC**