DETAS
D
power

LIGHT & SAFETY

2026

THE COMPANY



The **Detas Group** was founded in 1978 in the province of Brescia, Italy. However, its roots lie in the experience and professional knowledge that have been passed down from generation to generation since 1896, when the original company was founded in Pula, Istria.

D-Power is the division of Detas Group specialized in the production and engineering of traffic safety devices, introducing for more than twenty years the most advanced technologies to service the market.

The range of products is mainly divided in **two categories**: **safety devices for fixed installations** and **temporary warning lights for roadworks**.

This catalog provides only a preview of our products. We invite our Customers to visit regularly our website **d-power.com** where they will have the opportunity to be updated about the latest news of our products.

INDEX

FIXED SAFETY DEVICES

LED lights **08**
Basic 80 **09**
Basic 102 **10**
Basic 200 **11**
Basic 201 **12**
Basic 304 **13**

LED traffic lights **14-15**

Power supply kits **16**
Photovoltaic kits **17**
Compact photovoltaic kits **18**
Power supply / Battery kits **19**
Power supply kits **19**
PowerStation **20**

Fixed sequential light systems **21**
Basic sequences **22**
D-Solar radio **23**
Visual LED **23**

Road markers **24**
Kronos **25**
SolarTop 24 **26**
SolarGround 3 **26**
SolarTop 80 **27**
Side 25 **28**
PowerGround 3 **29**
RGR **30**
Flashing control unit **31**
Power supplies **31**
Mini GlassTop **32**
Micro GlassTop **32**
GlassTop **33**
Animal uni-reflector **34**

Safety devices **35**
Ecosolar **36-37**
D-Solar **38**
Dividing marker **39**
LEDBox **40-41**

Safety systems **42**
Tempo Flash Lite **43**
Safety Cross **44-45**
Safety Radar **46**
Safety Radar Solar Box **47**
Indicator Vario Multisense **48-49**
Dangerous points kit **50**
Time Box **51**
Black Out **52**

LED backlit signals **53-55**

Speed displays **56**
Indicator Cam **57**
Indicator Vario **58**
Indicator Flat 3 **59**
Indicator Lite Plus **60**

Traffic counter **61**
Traffic 3000 **62**

LED photovoltaic street lighting **63**
Trilogy Bust **64**
Talos N photovoltaic **65**

Advanced safety systems **66**
Safety Way **67**
Rav **68**
Ras **69**
EyeWitness **70**

APL - Pedestrian crossing lighting systems **71-83**

FOR ROAD WORK

LED lights for road work **86**
Basic 210 **87**
Basic 211 **88**
Basic 309 **89**

LED warning lights **90**
D-Star V2 **91**
D-Solo **92**

INDEX

Mini D-Lite	**93**
Mono D-Lite	**93**
D1-Solar Hybrid	**94**
D1-Solar Hybrid - Focus	**95**
High power LED warning lights	**96**
D2-Basic 210	**97**
D4C-Basic 102	**97**
D4C-Basic 210	**98**
D4C-Basic 308	**98**
LED sequential light systems	**99**
Battery radio sequence - D1 Radio	**100**
Battery radio sequence - D2-Basic 210	**101**
Battery radio sequence - D4C-Basic 210	**102**
Hybrid radio sequence - D1-Solar Hybrid	**103**
Cable sequence - Basic 210	**104**
Mobile LED traffic lights	**105**
Introduction	**106-107**
SL19	**108**
SL16	**109**
SL23	**110**
Electronic controller DUAL	**111**
Electronic controller MPB	**111**
Electronic controller MANUAL	**112**
Electronic controller ADAPTA	**113**
Numera	**114**
Mobile signaler	**115**
Indicator Flat 3 SL16	**116**
Wave	**117**
Mobile power supply kits	**118**
Kit50 SL16	**119**
Kit100 SL23	**120**
Dpod	**121**
D4 box - Rechargeable D4 box	**122**
D8 box charger	**122**
4R 25 6V batteries - Air-Alkaline batteries	**122**
12V rechargeable batteries	**122**
Accessories	**123-124**
Light trailers and directional arrows	**125**
ISS 90x90	**126**
ISS 60x60	**126**
ISS 90x90 E	**127**
Fig. 400 - fig. 401	**128-131**
LED torches	**132**
NX231	**132**
NX602	**133**
NX21	**133**
LED torch	**134**
Tulip 300	**134**
Emergency kits	**135**
LightGuard	**135**
LightShield	**136**
Impulse 104	**137**
LED beacons	**138**
Gold series	**138**
400 LED series	**139**
5100 series	**139**
LED bars	**140**
5565 series	**140**
12 LED series	**141**
ED3300 series	**142**
Basic bar 211	**142**
Basic bar 304	**143**
LED light devices	**144**
NCC66	**144**
NCC3703A	**145**
NCC3705A	**145**
EN 12352 STANDARD	**146**
EN 12352 CLASSES	**147**
TECHNICAL SPECIFICATION	**148-149**
CONTROL UNITS AND JUNCTION BOXES	**150-153**
SYNC	**154**





FIXED SAFETY DEVICES

LED LIGHTS



BASIC 80

Basic 80 is LED warning lights for fixed or temporary use especially appropriate when reduced dimension is needed.

It is available only with external control and suitable for all the application where there is a need to warn, inform or guide road users.

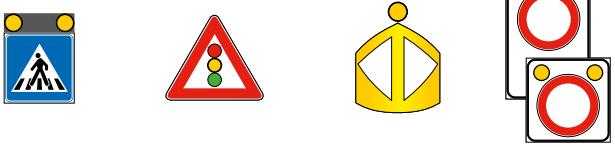


Certification	**EN12352 L2H**
Input voltage	**12/24 VDC**
Colour	● ● ○
Max. power consumption	**4.1 W**
Dimensions	**Ø 88 x 21.5 mm**



Flashing	**Power cons. @12V**	
FlashLED (10%)	**0.82 Ah**	/day
TriFlash (5%+5%+5%)	**1.23 Ah**	/day
Single (50%)	**4.1 Ah**	/day
Steady	**8.2 Ah**	/day

Some examples of applications:



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

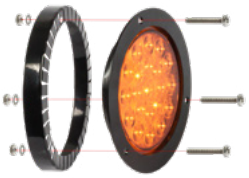
BASIC 102

Basic 80 and Basic 102 are LED warning lights for fixed or temporary use especially appropriate when reduced dimension is needed.

They are available only with external control and they are suitable for all the application where there is a need to warn, inform or guide road users.



Certification	**UNI EN12352 L2H**	
Input voltage	**12 VDC**	**12/24 VDC**
Colour	●○●●	●
Max. power consumption	**3.8 W**	
Dimensions	**Ø 139 x 19 mm**	

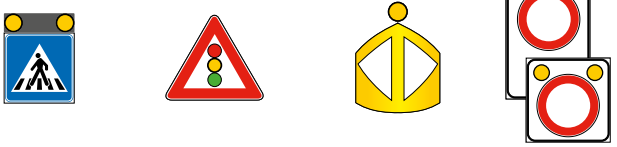


Adattapter for Basic 102

Flashing	**Power cons. @12V**	
FlashLED (10%)	**0.8 Ah**	/day
TriFlash (5%+5%+5%)	**1.2 Ah**	/day
Single (50%)	**4.0 Ah**	/day
Steady	**8.0 Ah**	/day



Some examples of applications:

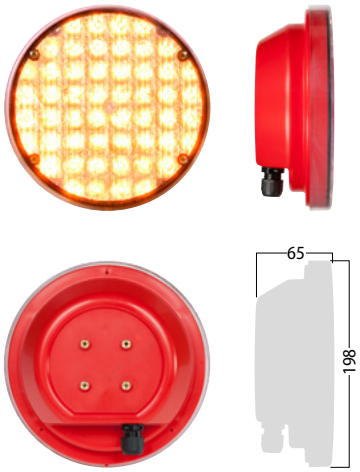


BASIC 200

Basic 200 is a LED warning light for fixed applications. The high luminous efficiency, the uniformity and the wide visual angles, make this product the best in its category.

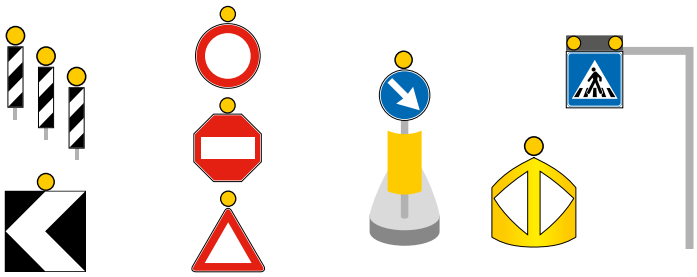


Certification	**UNI EN12352 L8H - L8M**
Input voltage	**12 VDC - 12/24 VDC**
Colour	● ● ● ○
Max. power consumption	**7.8 W**
Dimensions	**Ø 198 x 65 mm**



Flashing	**Power cons. @12V**	
FlashLED (10%)	**1.6 Ah**	/day
TriFlash (5%+5%+5%)	**2.3 Ah**	/day
Single (50%)	**7.8 Ah**	/day
Steady	**15.6 Ah**	/day

Some examples of applications:



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

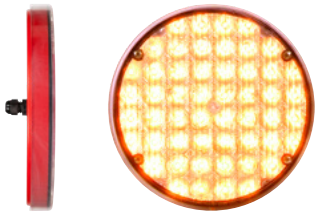
+39 030 2594120
info@d-power.com
D-POWER.COM

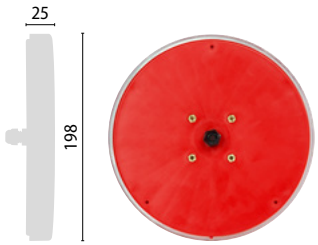
BASIC 201

Basic 201 is the flat version of the Basic 200. The high luminous efficiency, the uniformity and the wide visual angles, make this product the best in its category.



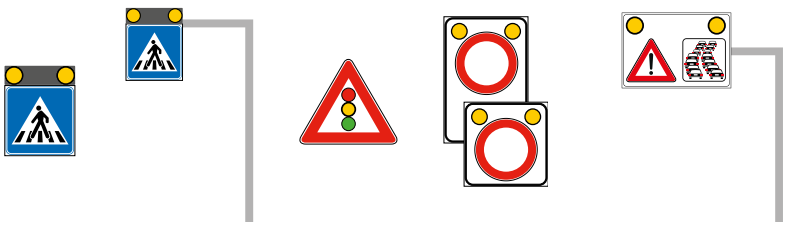
Certification	**EN12352 L8H - L8M**
Input voltage	**12 VDC - 12/24 VDC**
Colour	● ● ● ○
Max. power consumption	**7.8 W**
Dimensions	**Ø 198 x 65 mm**





Flashing	**Power cons. @12V**	
FlashLED (10%)	**1.6 Ah**	/day
TriFlash (5%+5%+5%)	**2.3 Ah**	/day
Single (50%)	**7.8 Ah**	/day
Steady	**15.6 Ah**	/day

Some examples of applications:



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BASIC 304

Basic 304 is the flat version of the Basic 302. The high luminous efficiency, the uniformity and the wide visual angles, make this product the best in its category.



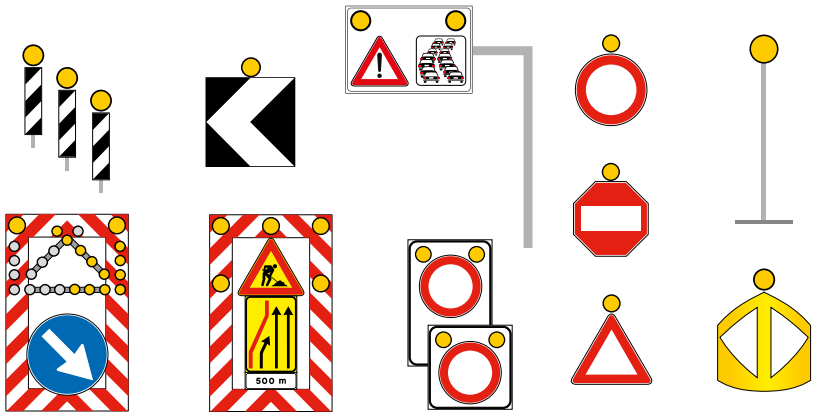
Certification	**EN12352 L9H - L9M**
Input voltage	**12 VDC - 12/24 VDC**
Colour	
Max. power consumption	**17.5 W**
Dimensions	**Ø 333 x 64 mm**

Flashing	**Power cons. @12V**	
FlashLED (10%)	**3.0 Ah**	/day
TriFlash (5%+5%+5%)	**4.5 Ah**	/day
Single (50%)	**15 Ah**	/day
Steady	**30 Ah**	/day



Side hole version

Some examples of applications:



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED TRAFFIC LIGHTS



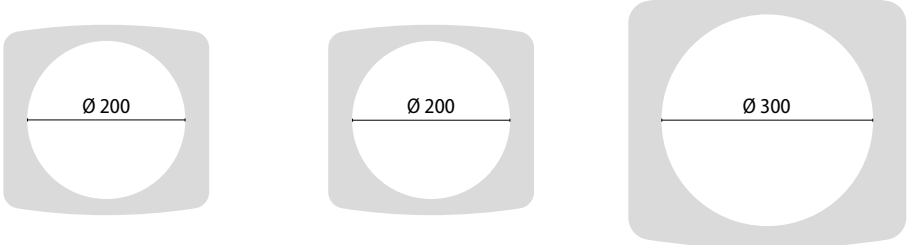
LED TRAFFIC LIGHTS

The recent technology improvement has been adopted by the latest LED traffic lights.
In compliance with European standard **EN12368** and with very low power consumption, the customer can obtain can better visual safety, a higher energy saving and a long life with no maintenance.



Certification CE	**EN12368**	
Input voltage	**12 VDC**	**230 VAC**
Colour	🟢 🟡 🔴	
Power cons.	**4 W**	**7 W**
Dimensions	**Ø 200 / 300 mm**	





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

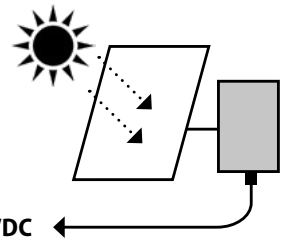
POWER SUPPLY KITS



PHOTOVOLTAIC KIT

Stand-alone photovoltaic kits to provide power to the devices throughout the year.

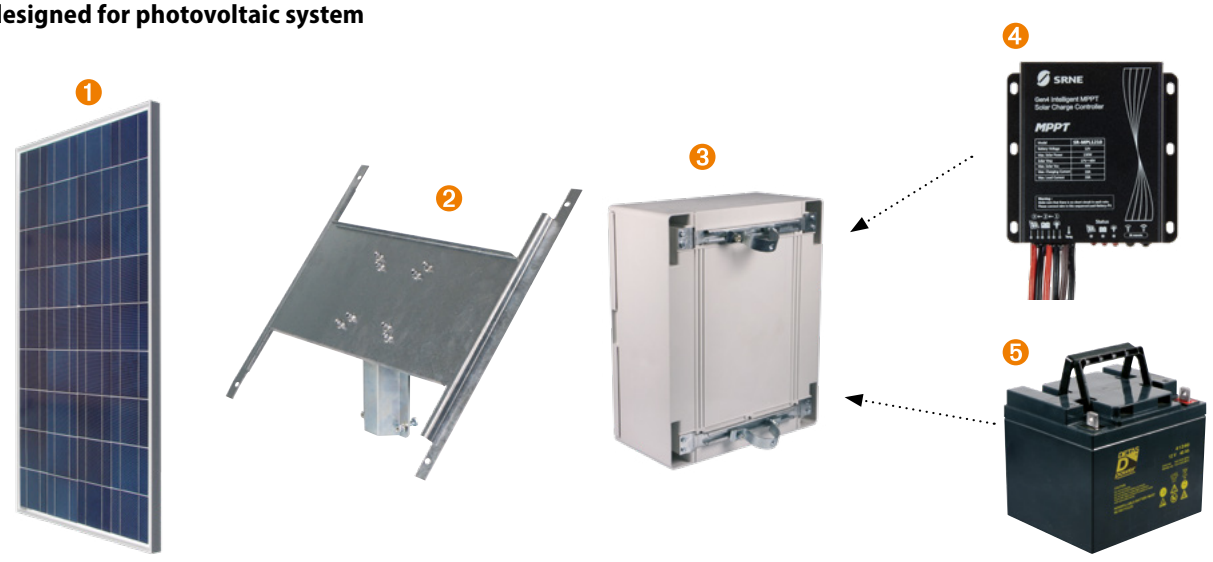
Our technical department will choose the best solution for each installation.





Module	Battery	Mounting plate
50 W	**45 Ah**	**Ø 60 - Ø 90**
100 W	**90 Ah**	**Ø 60 - Ø 90**
190 W	**90 Ah**	**Ø 90**

❶ Photovoltaic module
❷ Mounting plate
❸ Cabinet
❹ Charging regulator
❺ AGM battery specifically designed for photovoltaic system



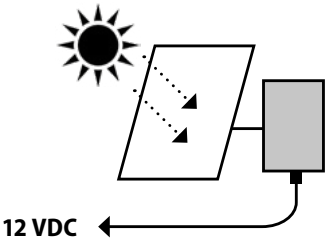
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

COMPACT PHOTOVOLTAIC KITS

Stand-alone compact photovoltaic kits ideal for applications where is not possible to use an external box.

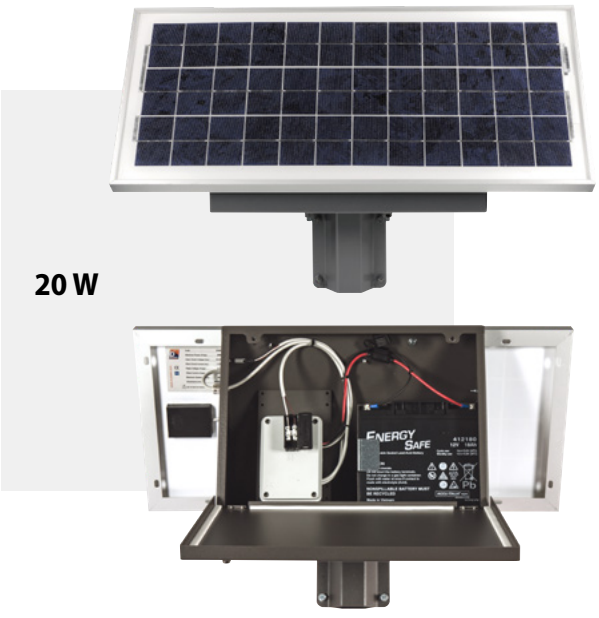
Our technical department will choose the best solution for each installation.



Module	Battery	Mounting plate
10 W	**12 Ah**	**Ø 60 - Ø 90**
20 W	**18 Ah**	**Ø 60 - Ø 90**
50 W	**45 Ah**	**Ø 90**







DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

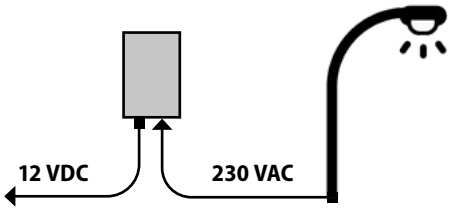
POWER SUPPLY/BATTERY KITS

Power supply kit **from public lighting** with a battery to provide power to the devices during daytime.

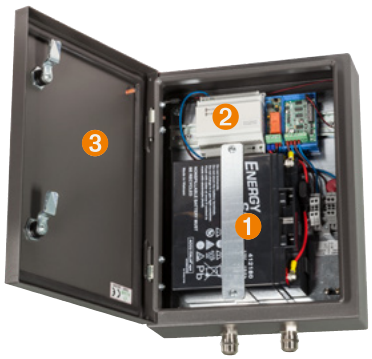
❶ **Back-up battery**

❷ **Power supply switch mode Class II**

❸ **Cabinet**









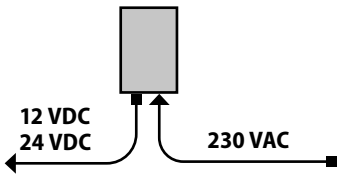
Power supply-Battery	Dimensions
230 VAC / 12 VDC, 3.5 A 18 Ah - Class II	**280 x 360 x 110 mm**
230 VAC / 12 VDC, 3.5 A 12 Ah - Class II	**240 x 280 x 130 mm**

POWER SUPPLY KITS

Power supply kit **230 V**, in box IP56, for all devices, Class II, suitable to provide energy for fixed devices.

❷ **Power supply switch mode**

❸ **BOX**





Power supply	Dimensions
230 VAC / 12 VDC, 2 A Class II - IP56	**190 x 140 x 70 mm**
230 VAC / 12 VDC, 3.5 A Class II - IP56	
230 VAC / 24 VDC, 3.5 A Class II - IP56	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

POWERSTATION

The PowerStations are Class I supply cabinet ideal for powering high load fixed devices.

Three models are available, all equipped with SPD and automatic circuit breaker:

PowerStation 12 (12VDC)

PowerStation 24 (24VDC)

PowerStation 48 (48VDC).

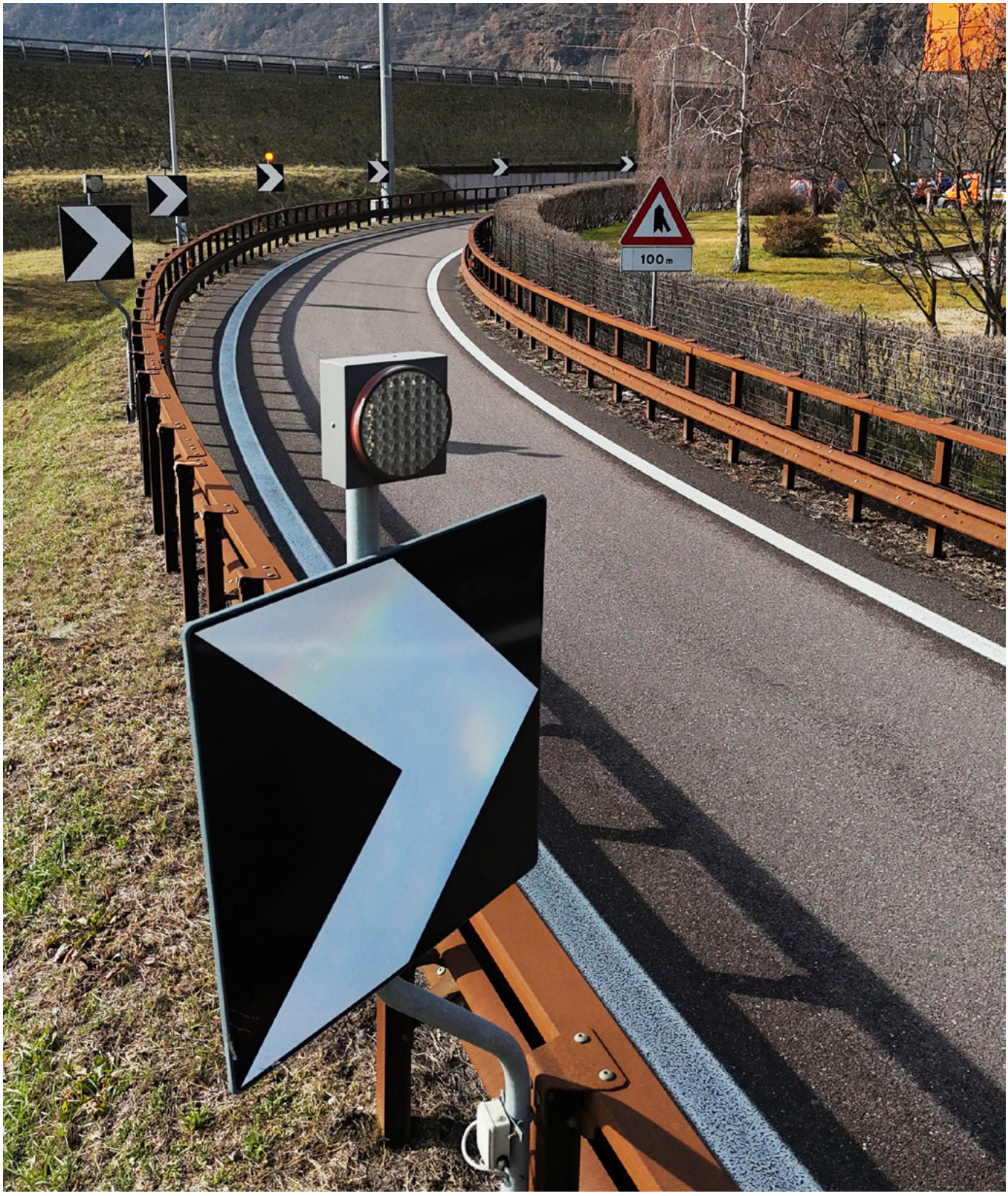
Each PowerStation can be equipped with a flashing control unit 12/48V (see pg. 42).





Input voltage	**230 Vac**		
Output voltage	**12 Vdc**	**24 Vdc**	**48 Vdc**
Max. power	**240 W**	**480 W**	**480 W**
Max. output current	**20 A**	**20 A**	**10 A**
Protections	**Overvoltages - Overcurrents**		
Insulation class	**Class I**		
IP protection class	**IP56**		
Operating temperature	**-10°C ÷ +55°C**		
Dimensions	**260 x 850 x 260 mm**		

FIXED SEQUENTIAL LIGHT SYSTEMS



BASIC SEQUENCES

Sequence lights systems with cable.
EN12352 certified LED lights.

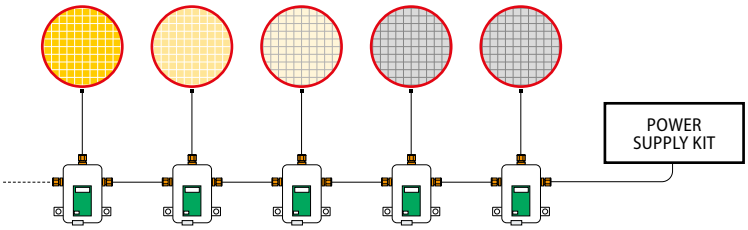
Supplied with M16 - M20 cable glands.

BASIC 200



LEDBOX BASIC 201





BASIC 304



LEDBOX BASIC 304

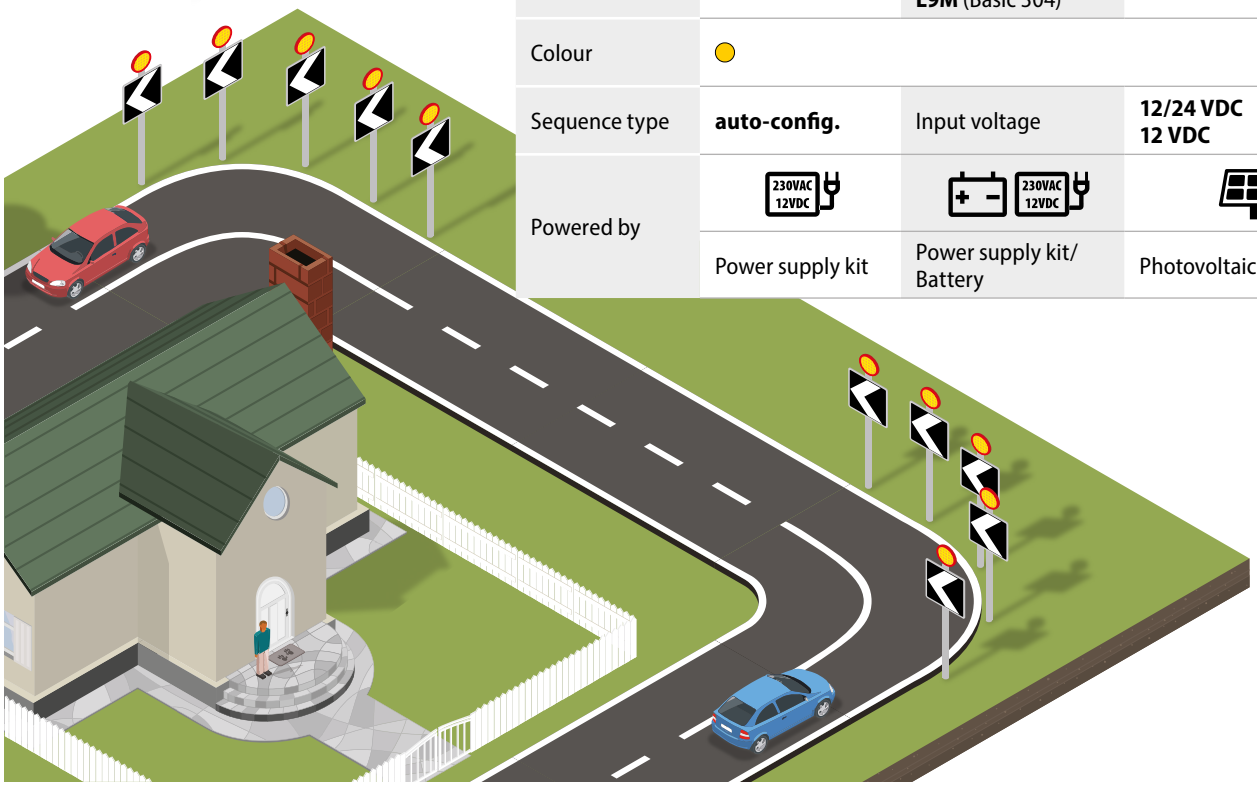


LED lights for sequential systems with external control.



EXTERNAL CONTROL BOX113

Certification	**EN12352**	**L8H** (Basic 200/201) **L9M** (Basic 304)	
Colour	●		
Sequence type	**auto-config.**	Input voltage	**12/24 VDC** **12 VDC**
Powered by	230VAC 12VDC	230VAC 12VDC	
	Power supply kit	Power supply kit/ Battery	Photovoltaic kit

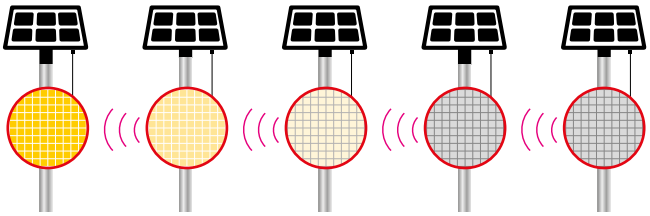


DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D-SOLAR RADIO

Sequence lights system with wireless radio technology.
Ready to mount.
EN12352 certified LED lights.
Min. distance between lights 1 m, max. 80 m.
No lights limit.
Synchronous flashing also available.




10 W


20 W

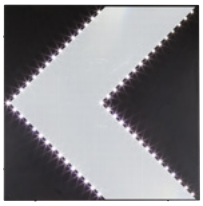
LEDBOX BASIC 201



BASIC 200



VISUAL LED



LEDBOX BASIC 304



BASIC 304

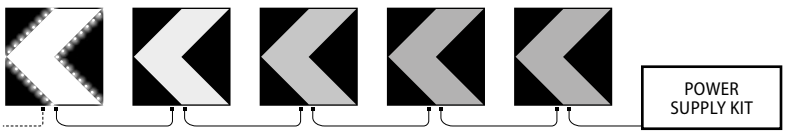


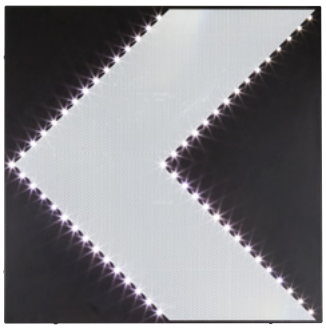
Certification	**EN12352**	**L8H** (Basic 200) **L9M** (Basic 304)	
Colour	● / ○ Visual LED		
Sequence type	**auto-config.**	Input voltage	**12 VDC**
Powered by		Photovoltaic kit	**10 W** (Basic200) **20 W** (Basic304)

VISUAL LED

LED sequential chevron.

Aluminium enclosure painted with epoxy.
Also available with backlit sign.







Dimensions	**60 x 60 cm**		
Colour	○ **+ diamond grade film**		
Sequence type	**auto-config.**	Input voltage	**12 VDC**
Powered by			
	Power supply kit	Power supply kit/ Battery	Photovoltaic kit

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

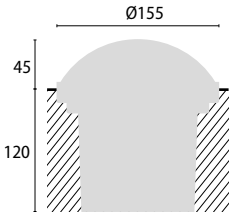
ROAD MARKERS



KRONOS







LUMINOUS LED INSERT WITH VERY LOW POWER CONSUMPTION.

Not carriageable.
Ideal for cuspidal points, roundabouts and fatal edges.
Usable with photovoltaic power supply.

Colour	● ○	Other colours on request	
Light	**Steady**	**Sync. flashing** with external flashing control unit	**Sequence** with external control unit
Power supply	**11 Vdc ÷ 24 Vdc class III 230 VAC class II**	Max. power consumption	**6 W**
Material	**Die cast aluminum body PP formwork**		
Dimensions	**Ø 155 x 165 mm**	Dome height	**45 mm**









DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

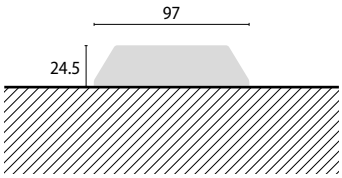
SOLARTOP 24

LED PHOTOVOLTAIC ROAD MARKER.

Not carriageable.

The product must be installed outside of the roadway.





Compliance	**EN1463-3**
Colour	Double side
Light	**Steady / Flashing**
Working	**Only night**
Storage	**Ni-Mh battery**
Material	**Die-cast aluminum**
Dimensions	**97 x 110 x 24.5 mm**

SOLARGROUND 3

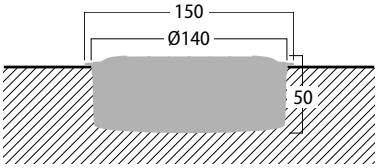
FLUSH MOUNT PHOTOVOLTAIC LED MARKER.

Carriageable.

Even if carriageable the product
must be installed outside of the roadway.



Version with synchronized flashing



Compliance	**EN1463-3**
Colour	Single side Double side
Light	**Steady / Flashing**
Working	**Only night**
Storage	**3.2V 1300mAh Ni-Mh Battery**
Material	**Die-cast aluminum**
Dimensions	**Ø150 x 50 mm**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

SOLARTOP 80

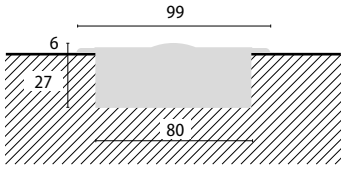
LED PHOTOVOLTAIC ROAD MARKER.

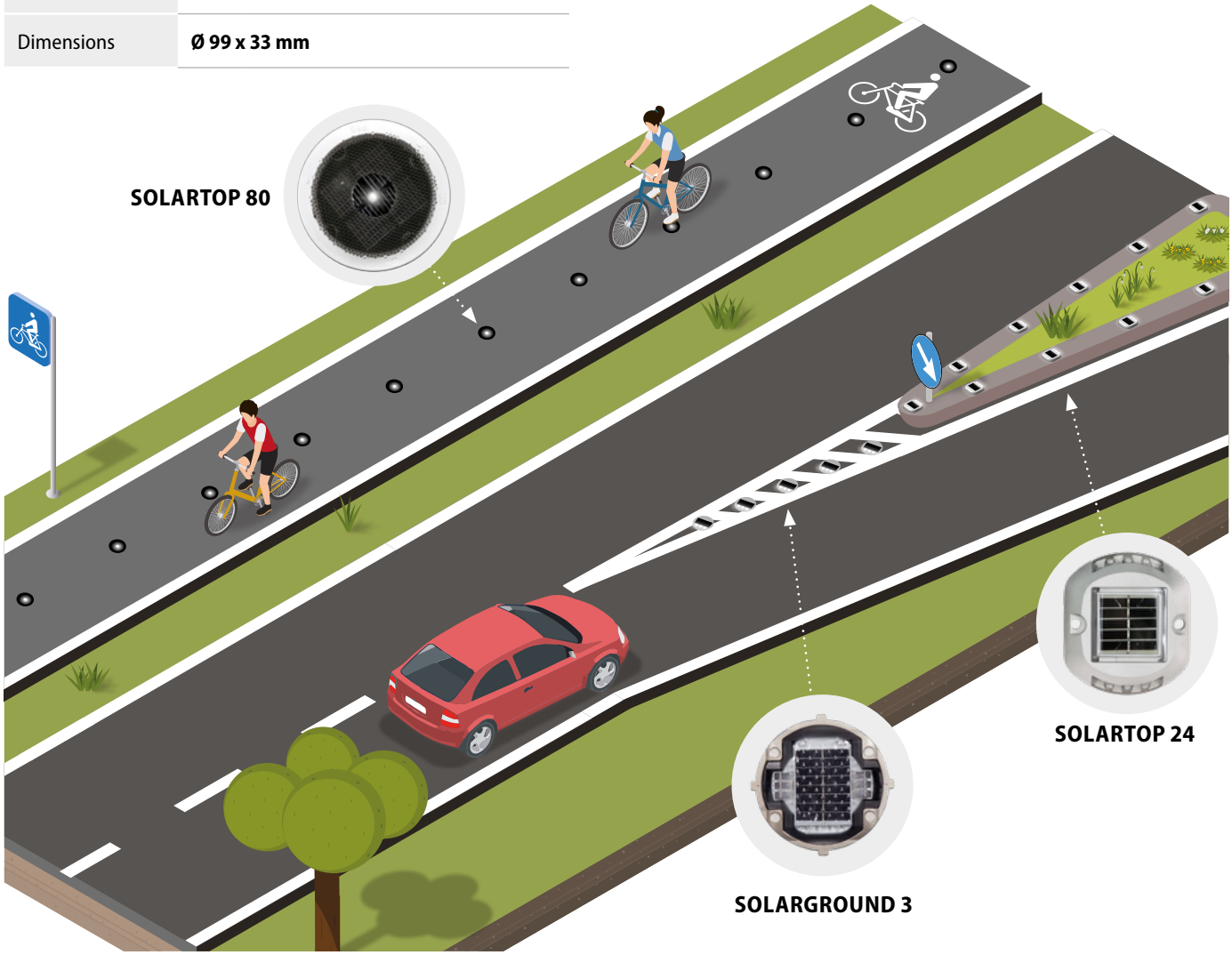
Not carriageable.

The product must be installed outside of the roadway.



Compliance	**EN1463-3**
Colour	○ 360°
Light	**Steady**
Working	**Only night**
Storage	**Ni-Mh battery**
Material	**High-strength polymer**
Dimensions	**Ø 99 x 33 mm**





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

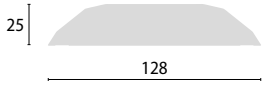
SIDE 25

LED MARKER.
Not carriageable.
For tunnels, roundabout, dangerous point, edges, etc.
6 high-brightness LEDs each side.
The product must be installed outside of the roadway.





Compliance	**EN1463-3**
Colour	Single side Double side Other colours on request
Light	**Steady** **Sync. flashing** with external flashing control unit **Sequence** with external control unit
Power supply	**11...48 VDC**
Max. power consumption	ingle side: **0.44 W@48 V** Double side: **0.85 W@48 V**
Material	**Polycarbonate ULV0**
Dimensions	**90 x 128 x 25 mm**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

POWERGROUND 3

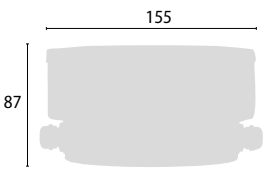
IN-PAVEMENT HIGH POWER LED. (>200cd)

Carriageable.

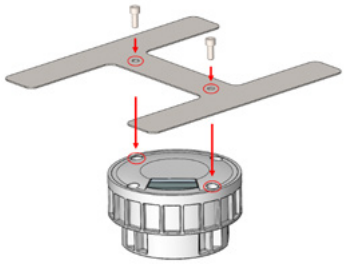
Available in single side or double side version.

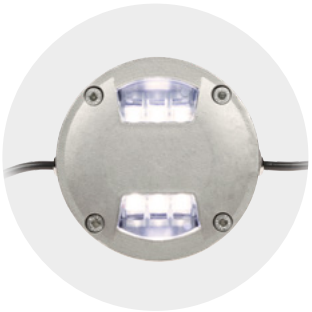


Compliance	**EN1463-3**
Colour	○ ● Patented LED optics
Light	**Steady** **Sync. flashing** with external flashing control unit
Power supply	**10...48 VDC**
Max. power consumption	○ Single side: **3.6 W** ○○ Double side: **7.2 W**
Material	**AISI 304 stainless steel**
Dimensions	**Ø 155 x 87 mm**



Template supplied







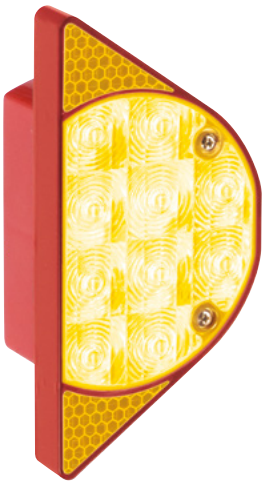
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

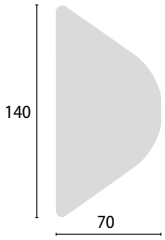
RGR

LED MARKER FOR GUARDRAIL.

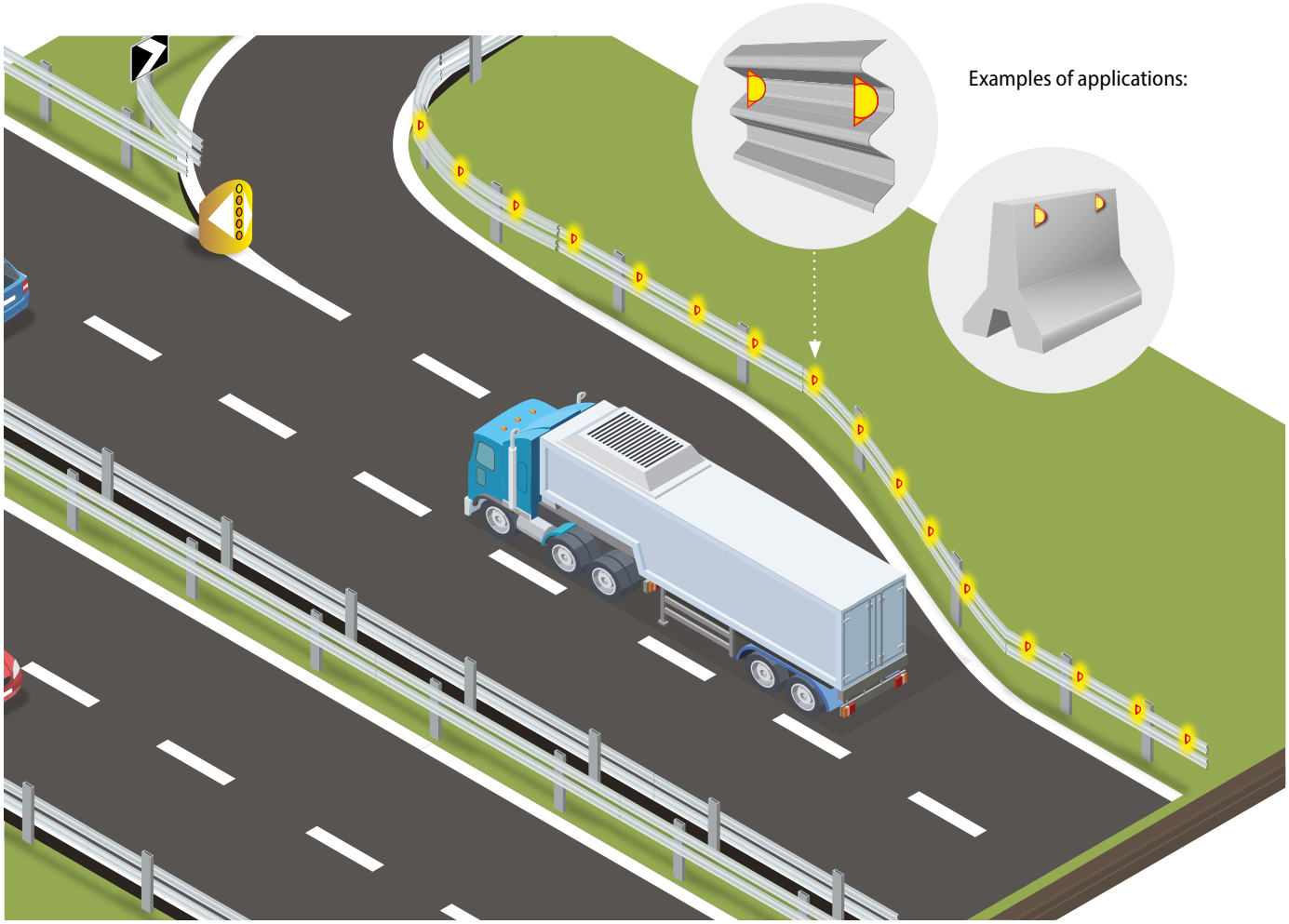
RGR, thanks to its high visibility and low power consumption, is an excellent solution for dangerous curves, motorway exits, tunnels and all the other dangerous situations on the road. Ideal for zones with high presence of fog.







Approved	**EN12352 L2H**		
Colour	●		
Light	**Fissa**	**Sync. flashing** with external flashing control unit	**Sequence** with external control unit
Power supply	**18...48 VDC**	Power consumption (steady light)	**3.9 W @48 V**
Material	**ABS**		
Dimensions	**70 x 140 x 45 mm**		



Examples of applications:

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FLASHING CONTROL UNIT

Flashing control unit for road marker series.

Connectable markers	Nr. max.
Side 25	160
Kronos	40
RGR	60
PowerGround 3 HP	65

Input voltage	12/48 VDC
Functions	night dimming remote control
Duty cicle	50% 20% <10%
Dimensions	125 x 80 x 50 mm



POWER SUPPLIES

AC-DC DIN rail mountable power supply.

Model	GSA SWP10	GSA SWP20
Certifications	UL, cUL, CE	UL, cUL, CE
Input voltage	85...264 VAC	85...264 VAC
Output wattage	240 W	480 W
Output voltage	48 VDC	48 VDC
Output current	5 A	10 A
Efficiency	>94%	>94%



GSA SWP10



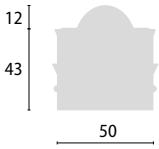
GSA SWP20

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

MINI **GLASSTOP**

RETROREFLECTIVE MARKER.

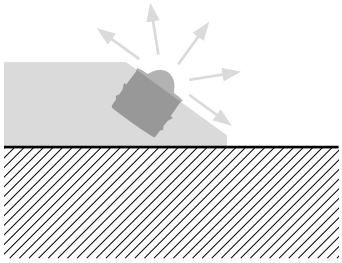




Carriageable.

Even if carriageable the product should be installed outside of the roadway.

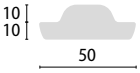
Self cleaning.



Certification	**EN1463-2**
Reflection	**360° horizontally** **180° vertically**
Material	**Tempered glass with rubber cover**
Dimensions	**Ø 50 x 55 mm**
Dome height	**12 mm**

MICRO **GLASSTOP**

RETROREFLECTIVE MARKER.



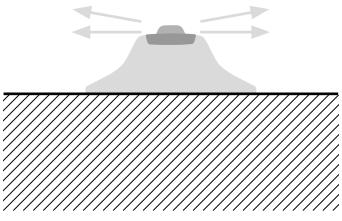


Not carriageable.

Small size.

The product should be installed outside of the roadway.

Self cleaning.



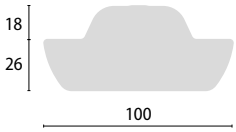
Compliance	**EN1463-2**	Art.153 (Art.40 C.d.S.)
Reflection	**360° horizontally**	
Material	**Tempered glass**	
Dimensions	**Ø 50 x 20 mm**	
Dome height	**10 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

GLASSTOP

RETROREFLECTIVE MARKER.



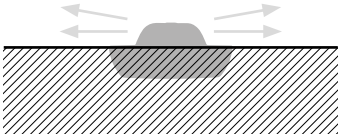


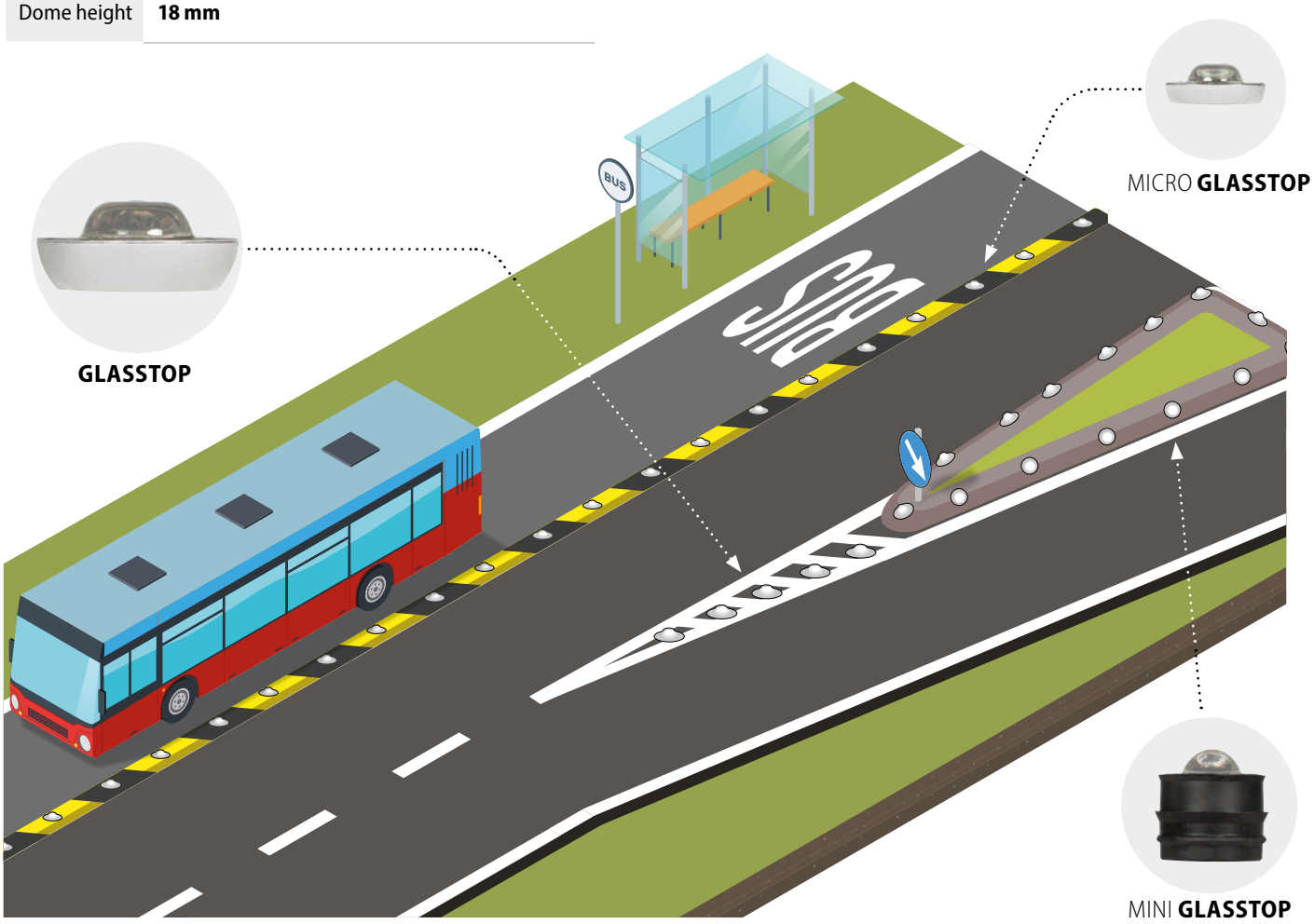
Carriageable.

Even if carriageable the product should be installed outside of the roadway.

Self cleaning.

Approved	**EN1463-2**
Reflection	**360° horizontally**
Material	**Tempered glass**
Dimensions	**Ø 100 x 44 mm**
Dome height	**18 mm**





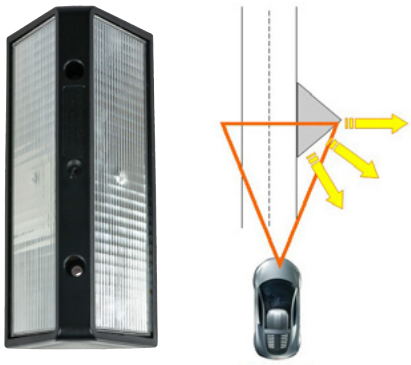
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

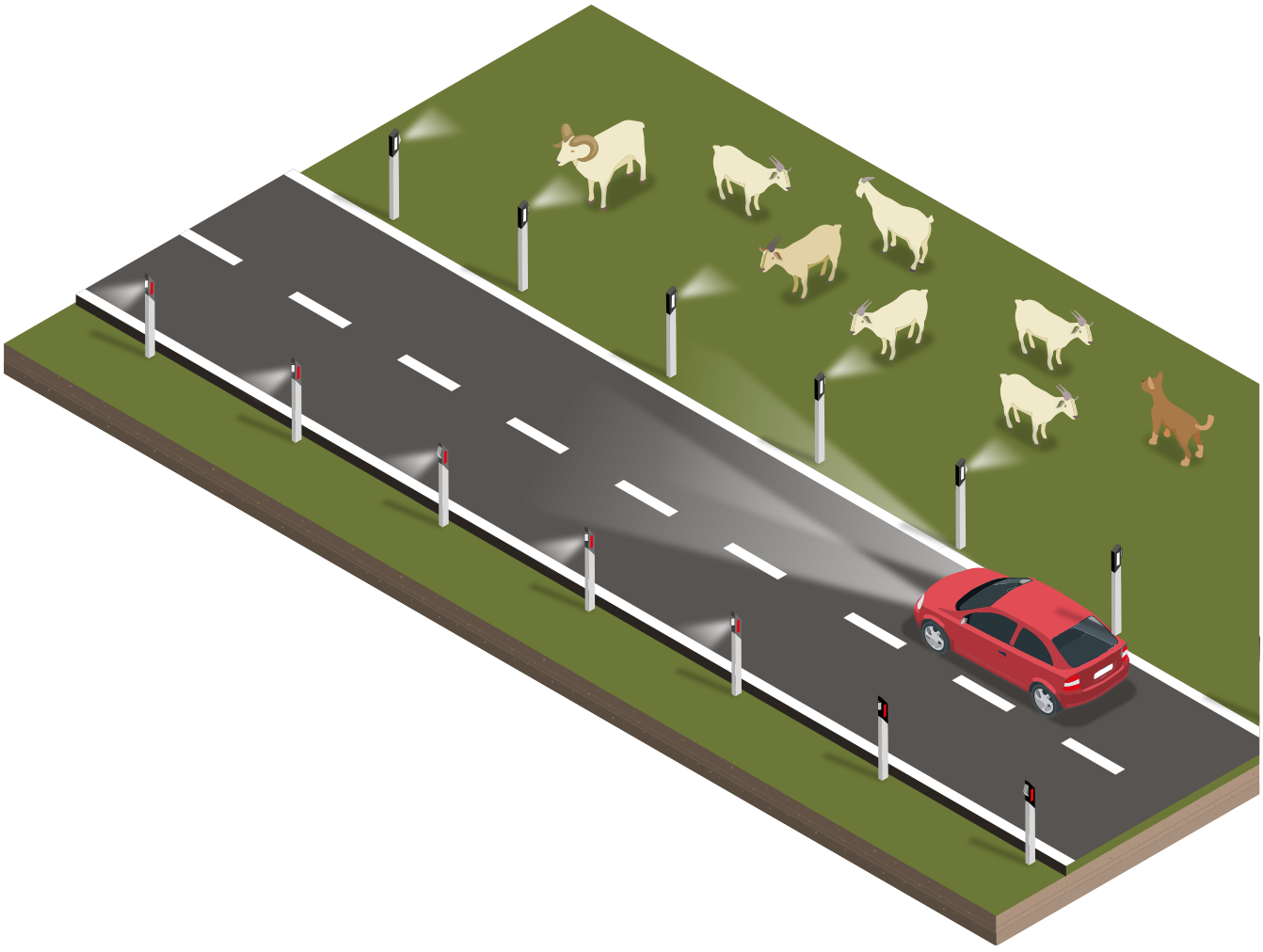
ANIMAL UNI-REFLECTOR

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.



Reflective colour	○ ● optional
Fixing	**Screw**
Dimensions	**45 x 197 x 64 mm**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

SAFETY DEVICES

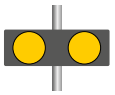
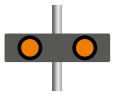


ECOSOLAR

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.

Ecosolar single Basic 201	Ecosolar double Basic 201	Ecosolar double Basic 201 single sided	Ecosolar double Basic 102 single sided	Ecosolar double Basic 102 double sided
Central mount	Central mount	Flag mount	Central mount	Flag mount
photovoltaic panel **5 W**	photovoltaic panel **10 W**	photovoltaic kit **10 W**	photovoltaic kit **10 W**	photovoltaic kit **10 W**
				
some example of applications:				
				

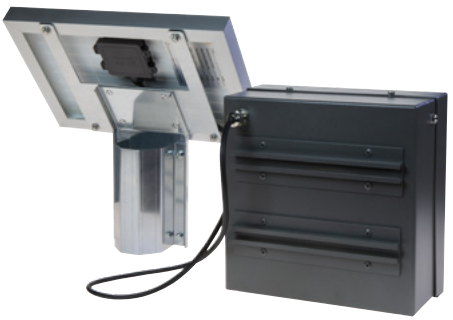


ECOSOLAR SINGLE BASIC 201



ECOSOLAR DOUBLE BASIC 201





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

Certification	Basic 201 Basic 102	**EN12352 - L8H** **EN12352 - L2H**
Colour	🟡	
Powered by		Photovoltaic
Working	**24/7**	**Optional only night**
Fixing	**Ø 60** **Ø 90**	
Box dimensions	1 Basic 201 2 Basic 201 2/4 Basic 102	**210 x 210 x 120 mm** **600 x 210 x 120 mm** **600 x 160 x 60 mm**

Ecosolar are powered only by photovoltaic energy.

For solutions powered by the electrical network, see LEDBox on the next page →





Ecosolar double Basic 201 single sided - flag mount



Ecosolar double Basic 102 single sided - central mount



Ecosolar double Basic 102 double sided - flag mount

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D-SOLAR

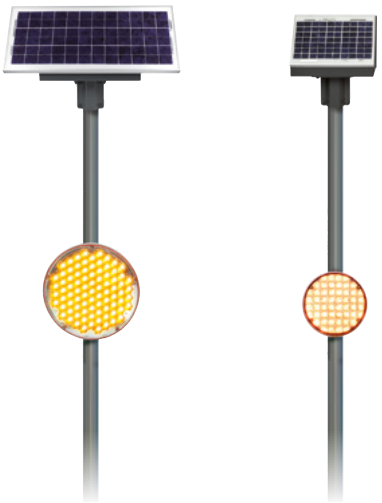
D-solar are LED lights with photovoltaic suitable for highways and heavy traffic areas. They are ideal for cuspidal points, crossroads and fatal edges.

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.



Approved	Basic 200 Basic 302	**EN12352 - L8M** **EN12352 - L9M**		
Colour	●			
Powered by		Photovoltaic kit		**10 W** Basic 200 **20 W** Basic 302
Working		**24 ore**		**Optional only night**
Fixing	**Ø60**			
Dimensions	Basic 200 Basic 302	**Ø 200 x 65 mm** **Ø 333 x 110 mm**		



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

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.











Model	5 LED lights Basic 102			3 LED lights Basic 102
Certification	EN 12352 - L2H			EN 12352 L2H
Colour	●			●
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

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LEDBOX

LEDBox 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 LEDBox external control can be used with:

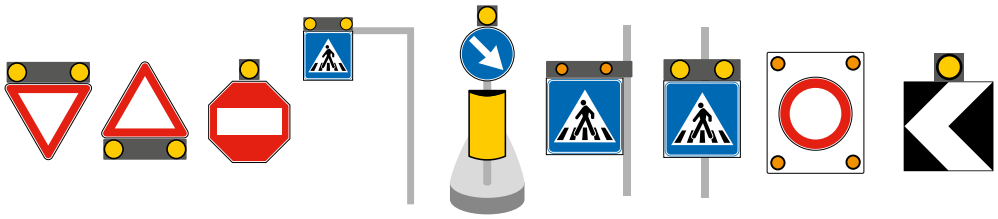
Our Compact Photovoltaic Kit with S600 controller.

Our Box and control units (see pages 10-11).

Our DIN rail mountable flashing control unit (see page 32).



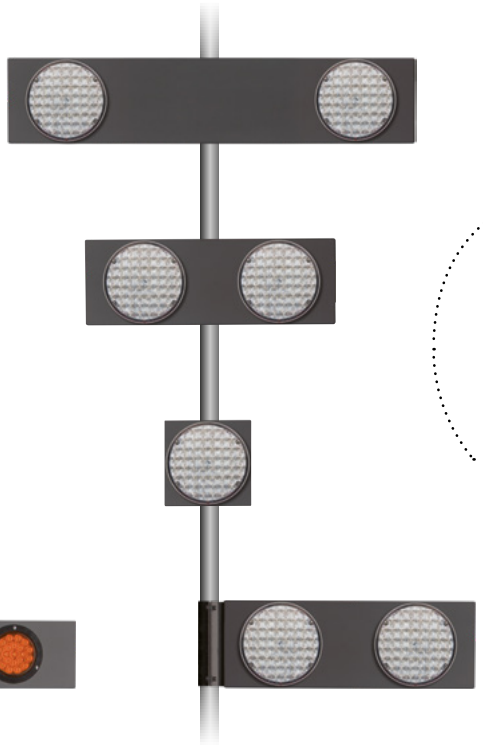
Some examples of applications:



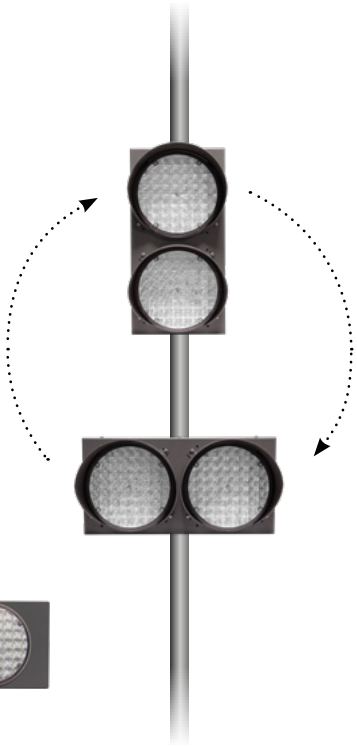
Certification	Model	
EN 12352 - L2H	LEDBox Basic 102	LEDBox 2 x Basic 102 - central mount
		LEDBox 4 x Basic 102 - central mount
		LEDBox 4 x Basic 102 - flag mount for APL
		LEDBox 4 x Basic 102 - flag mount
EN 12352 - L8H L8M	LEDBox Basic 201	LEDBox 1 x Basic 201 - central mount
		LEDBox 2 x Basic 201 - central mount
		LEDBox 2 x Basic 201 - central mount
		LEDBox 2 x Basic 201 - flag mount
		LEDBox 2 x Basic 201 horizontal with visor - orientable mount
		LEDBox 2 x Basic 201 vertical with visor - orientable mount
EN 12352 - L9H L9M	LEDBox Basic 304	LEDBox 1 x Basic 304 - central mount



BASIC 102



BASIC 201



BASIC 201
ORIENTABLE



BASIC 304

LED colour	Powered by	Input voltage	Fixing	Box dimensions
	 Power supply kit  Power supply/ Battery kit	**230 VAC** **12 VDC** More voltages on request	**Ø 60** **Ø 90**	600 x 160 x 60 mm
				800 x 1000 x 45 mm
				650 x 160 x 60 mm
				600 x 160 x 60 mm
				210 x 210 x 120 mm
				600 x 210 x 120 mm
				900 x 210 x 120 mm
				600 x 210 x 120 mm
				220 x 440 x 161 mm
				220 x 440 x 161 mm
				360 x 360 x 115 mm

SAFETY SYSTEMS



TEMPO FLASH LITE

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.

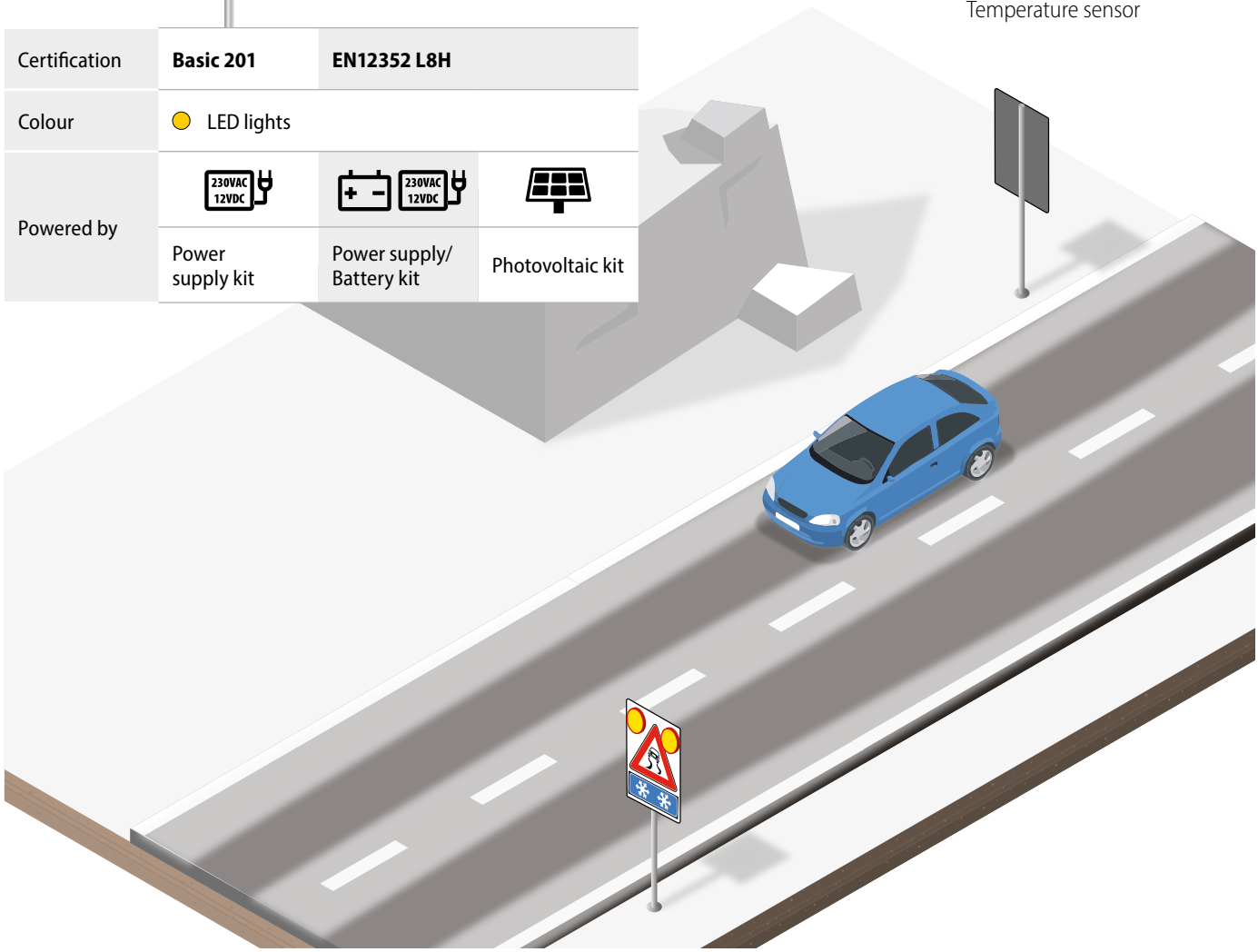




Temperature sensor



Certification	**Basic 201**	**EN12352 L8H**	
Colour	LED lights		
Powered by	230VAC 12VDC	230VAC 12VDC	
	Power supply kit	Power supply/ Battery kit	Photovoltaic kit



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

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

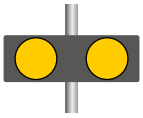
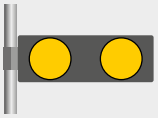
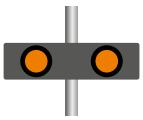
Certification	Basic 201 Basic 102	**EN12352 - L8H** **EN12352 - L2H**
Colour	●	
Powered by	Photovoltaic kit	**20 W - 18 Ah**
Activated by	**Pedestrian sensor** **Touch button**	
Fixing	**Ø60** **Ø90**	
Box dimensions	Basic 201 Basic 102	**600 x 210 x 120 mm** **600 x 160 x 60 mm**



Single sided

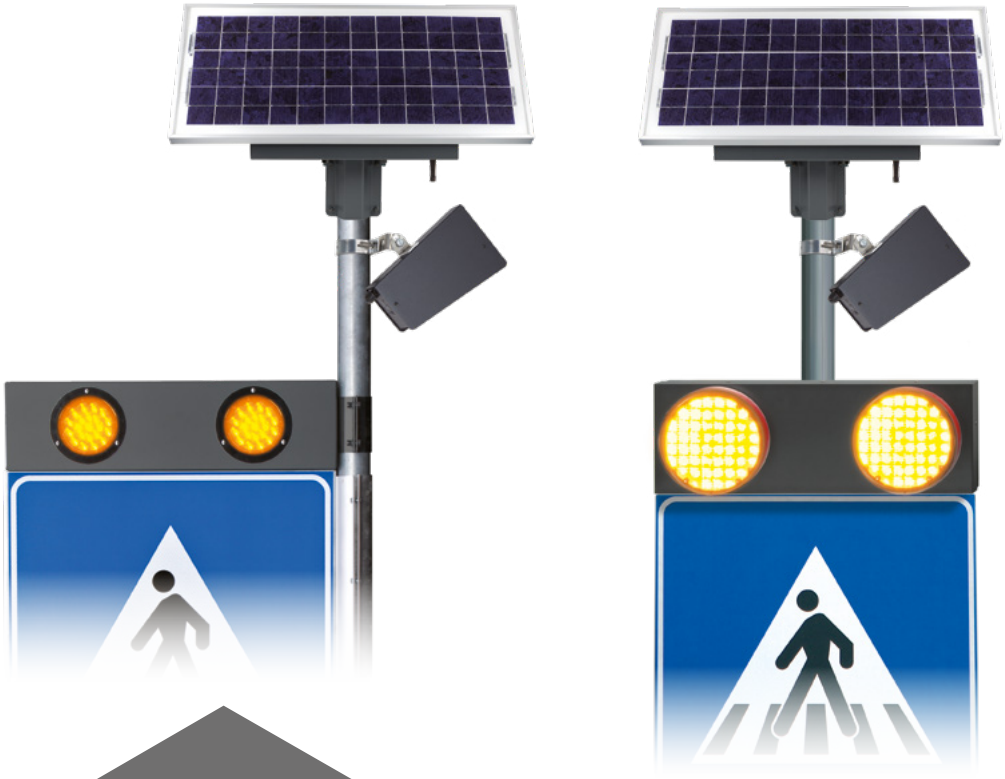


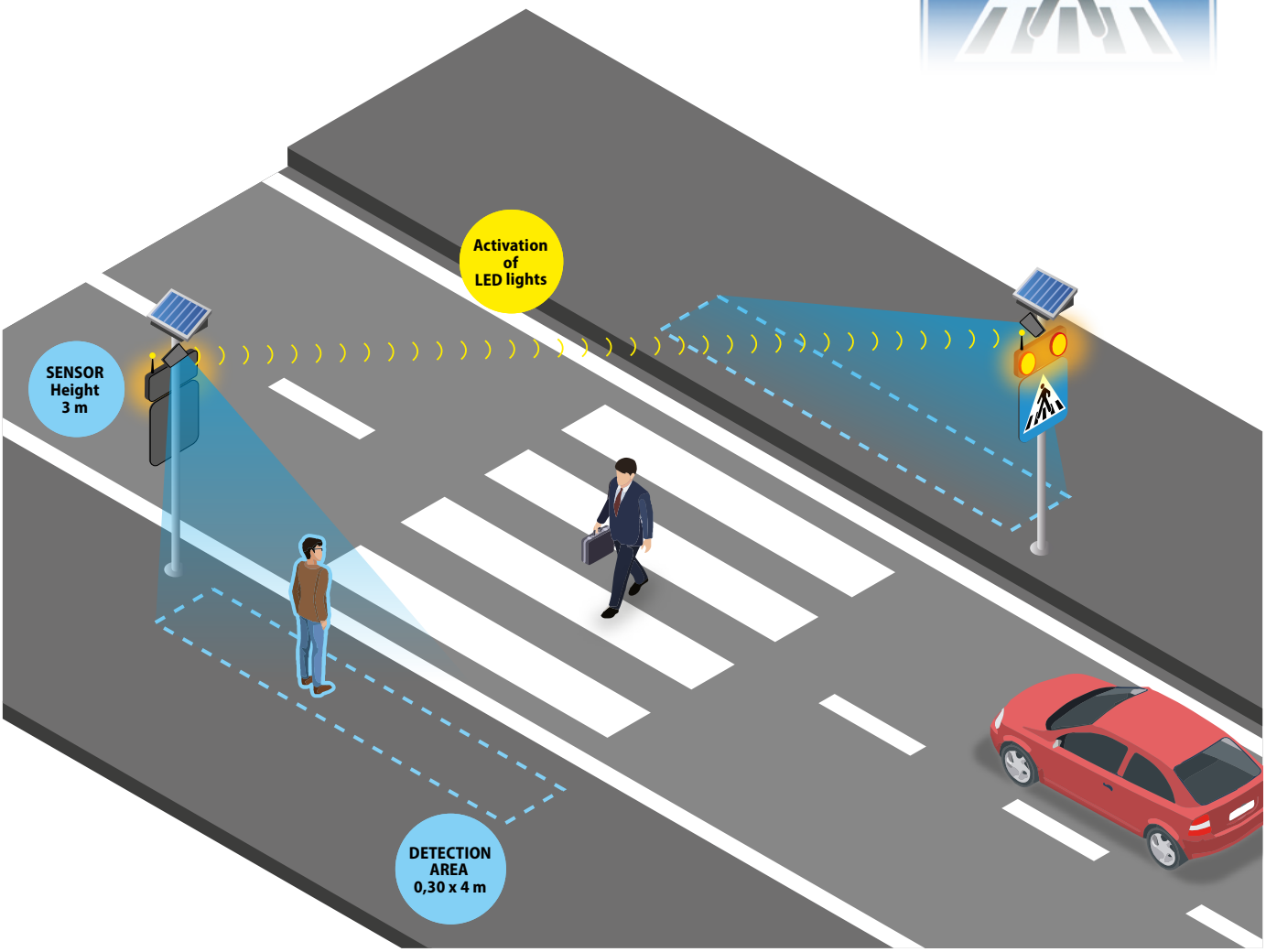
double sided

Possible configurations:		
Powered by	**Activated by**	**LEDBox**
Photovoltaic kit	Pedestrian sensor In alternativa: Touch button alternatively	 Basic 201 Single side  Basic 201 Single side  Basic 102 Single side  Basic 102 Double side

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

SAFETY RADAR

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.

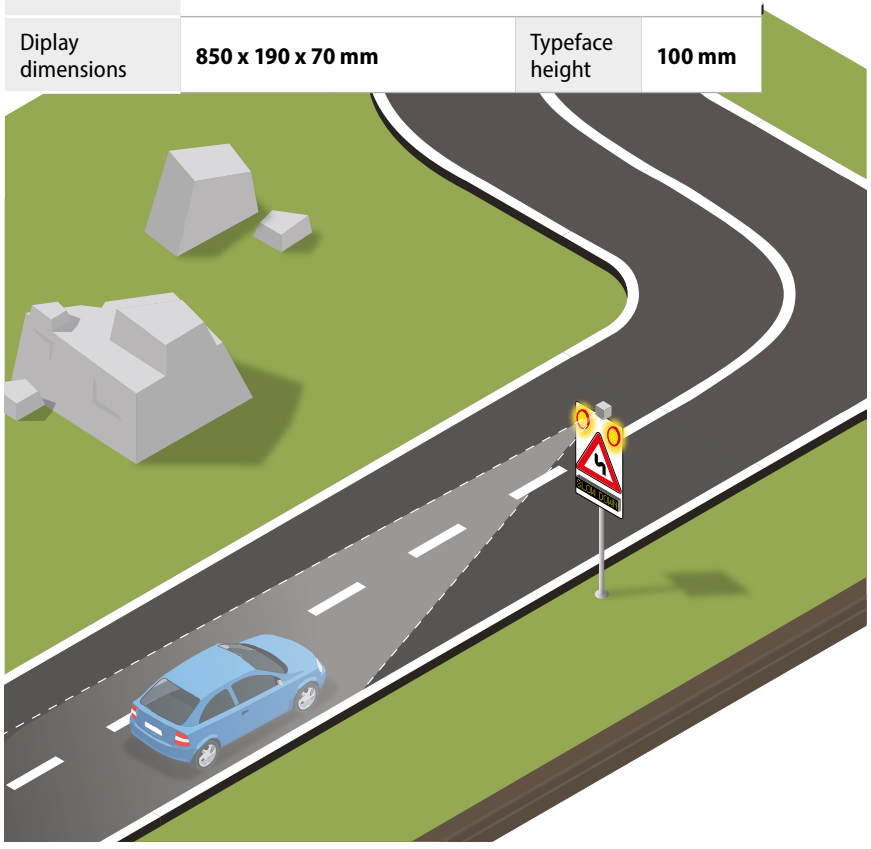

Radar LC/LCL


Radar FALCON BASIC


BASIC 201



Certification	**Basic 201**	**EN12352 L8H**		
Colour	●			
Powered by	230VAC 12VDC	230VAC 12VDC		**50 W**
	Power supply kit	Power supply/ Battery kit	Photovoltaic kit	
Radar range	Radar LC: **100 m**	Radar LCL: **200 m**		
Diplay dimensions	**850 x 190 x 70 mm**		Typeface height	**100 mm**





Exemples of application: **Safety Radar**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

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

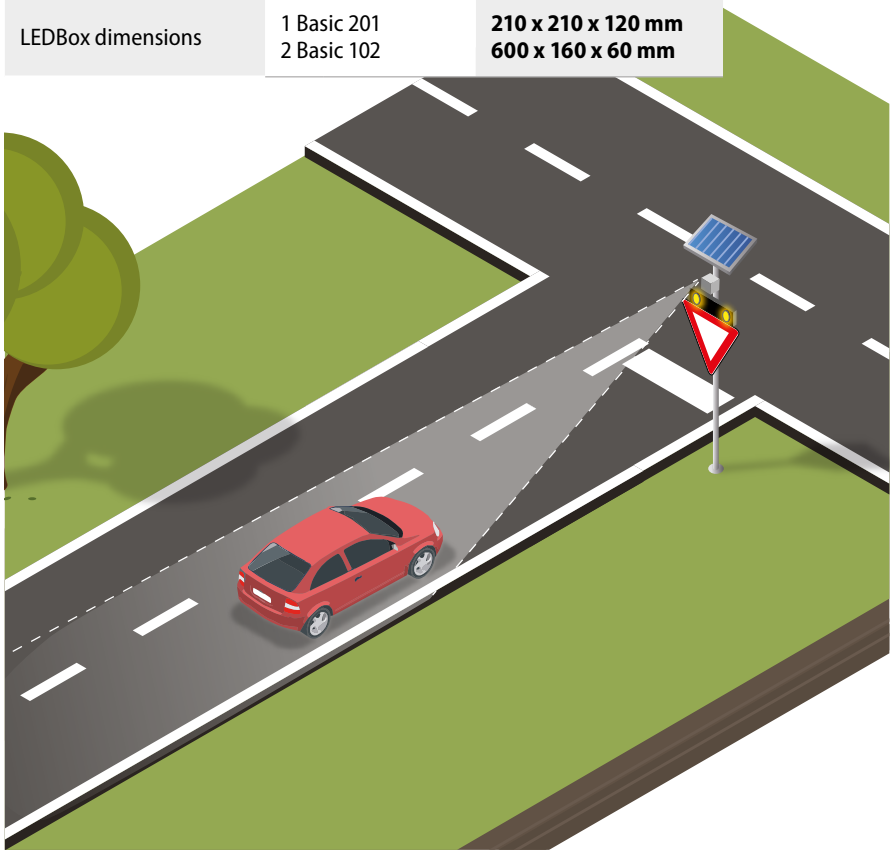


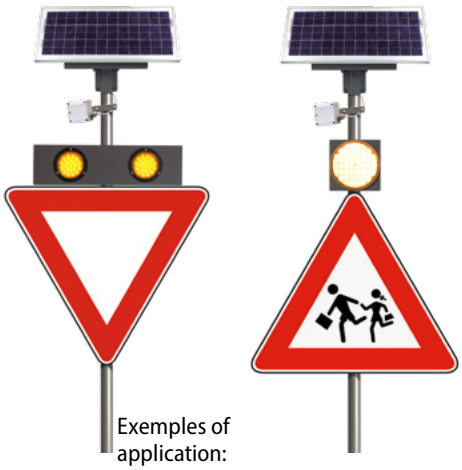
LEDBOX BASIC 102



LEDBOX BASIC 201

Certification	**Basic 201** **Basic 102**	**EN12352 L8H** **EN12352 L2H**
Colour	●	
Powered by	▦	Photovoltaic kit **20 W**
Radar range	Radar LC: **100 m**	Radar LCL: **200 m**
LEDBox 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

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

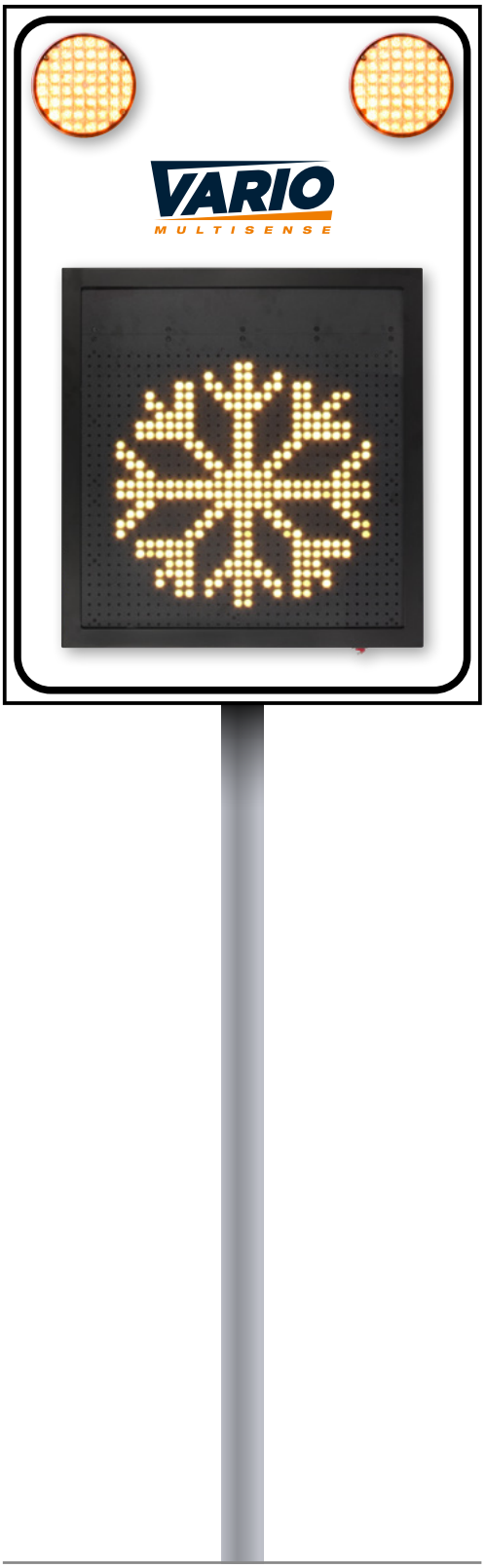
INDICATOR VARIO MULTISENSE

SINGLE-COLOR VARIABLE MESSAGE SIGN DESIGNED FOR ROADSIDE INSTALLATION WITHIN VERTICAL ROAD SIGNS.

With the ability to connect up to three sensors simultaneously, Vario Multisense is suitable for multiple applications with a single device.

Dynamic messages will be displayed based on conditions detected by various sensors, such as speed radar, rain sensor, temperature sensor, timer, and many others.

A versatile, intelligent, and modular solution, designed to improve road safety and provide real-time information to road users.



Colour	🟡	
Digit height max.	**500 mm**	
Resolution	**32 x 28 px**	
Powered by	Photovoltaic kit	**50 W - 45 Ah** **100 W - 90 Ah**
	Power supply kit (230VAC 12VDC)	**230 VAC/12 VDC**
	Power supply/Battery kit (230VAC 12VDC)	**230 VAC/12 VDC** **18 Ah Battery**
Software	**Included** / App Android	
Connection	**Bluetooth** (100m outdoor) **RS232**	
Vehicle detection	**Bidirectional** (only statistic)	
Dimensions	**685 x 720 x 60 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM



Up to three sensors simultaneously, including:

- **Temperature sensor**
- **Rain sensor**
- **Height sensor**
- **Flooding sensor**
- **Speed sensor**
- **Time switch**

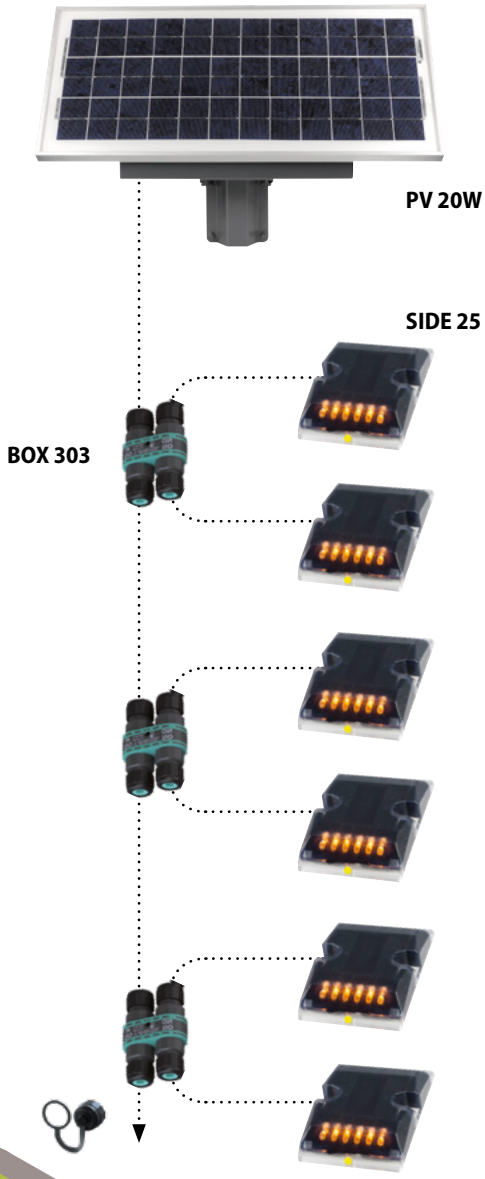
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

DANGEROUS POINTS KIT

LED markers powered by a compact photovoltaic kit.
Ideal for dangerous points, roundabouts and fatal edges.

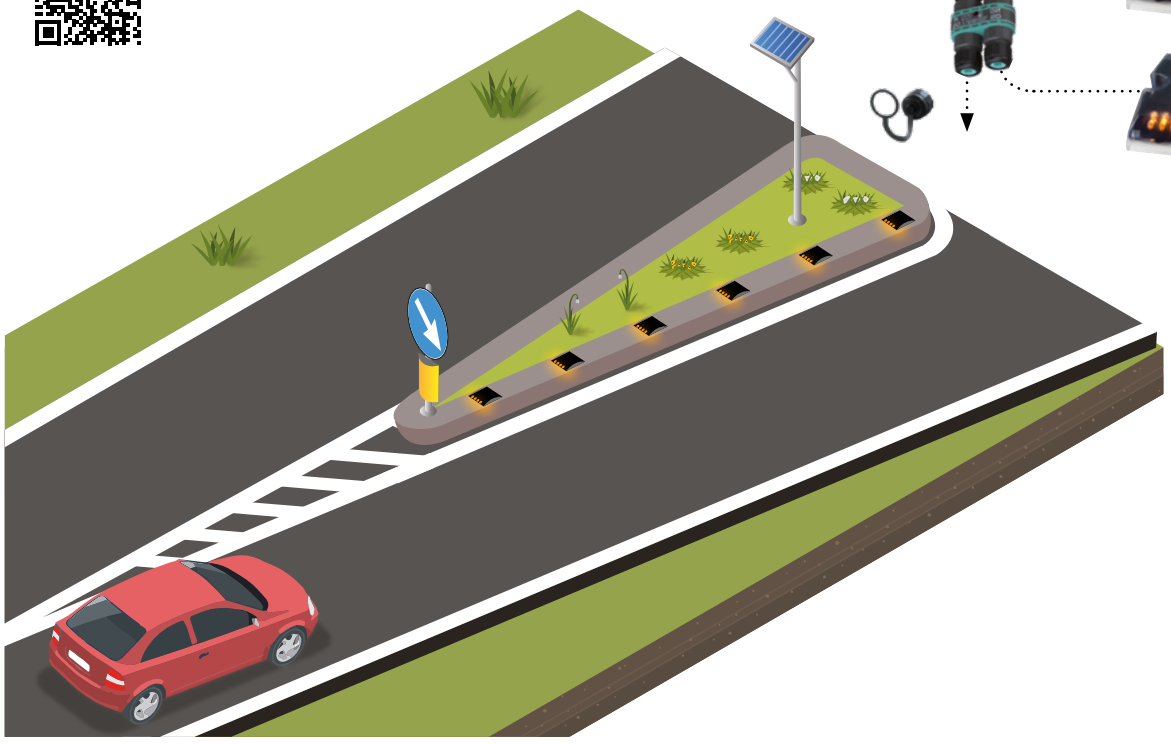
The kit includes:
- **SIDE 25**: LED marker single side amber
- **BOX 303**: junction box 2/3 out,TH 392, IP68, with cap.
- **Compact photovoltaic kit 20W** mounting plate- Ø 60.



Number of connected markers:

5	8	13	20	26	40
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:



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

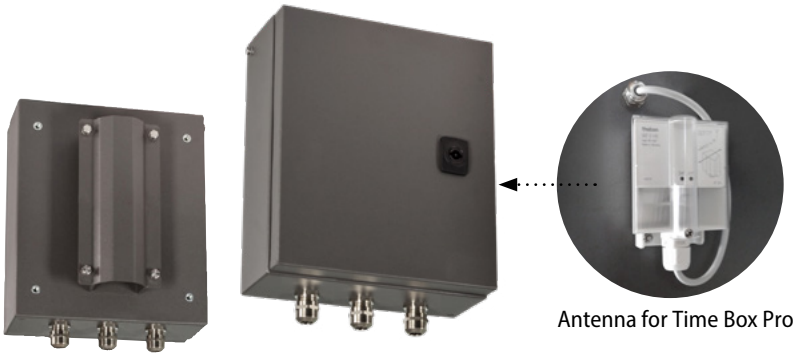
TIME BOX

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.

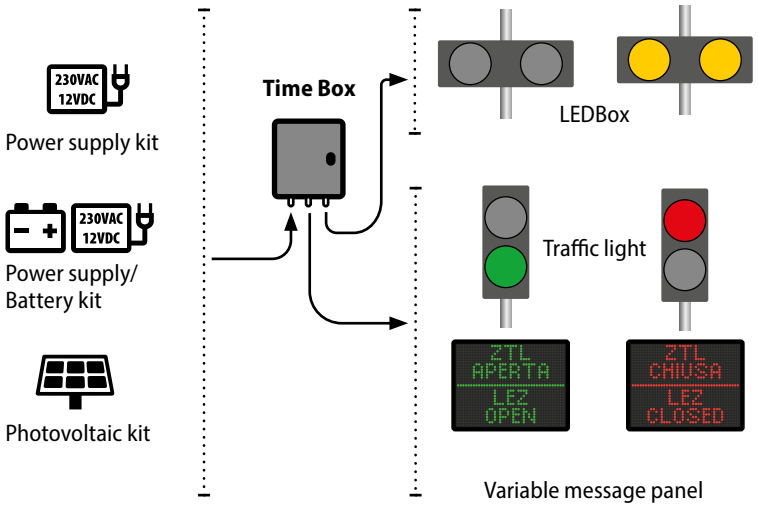
The system only operates at the scheduled time.

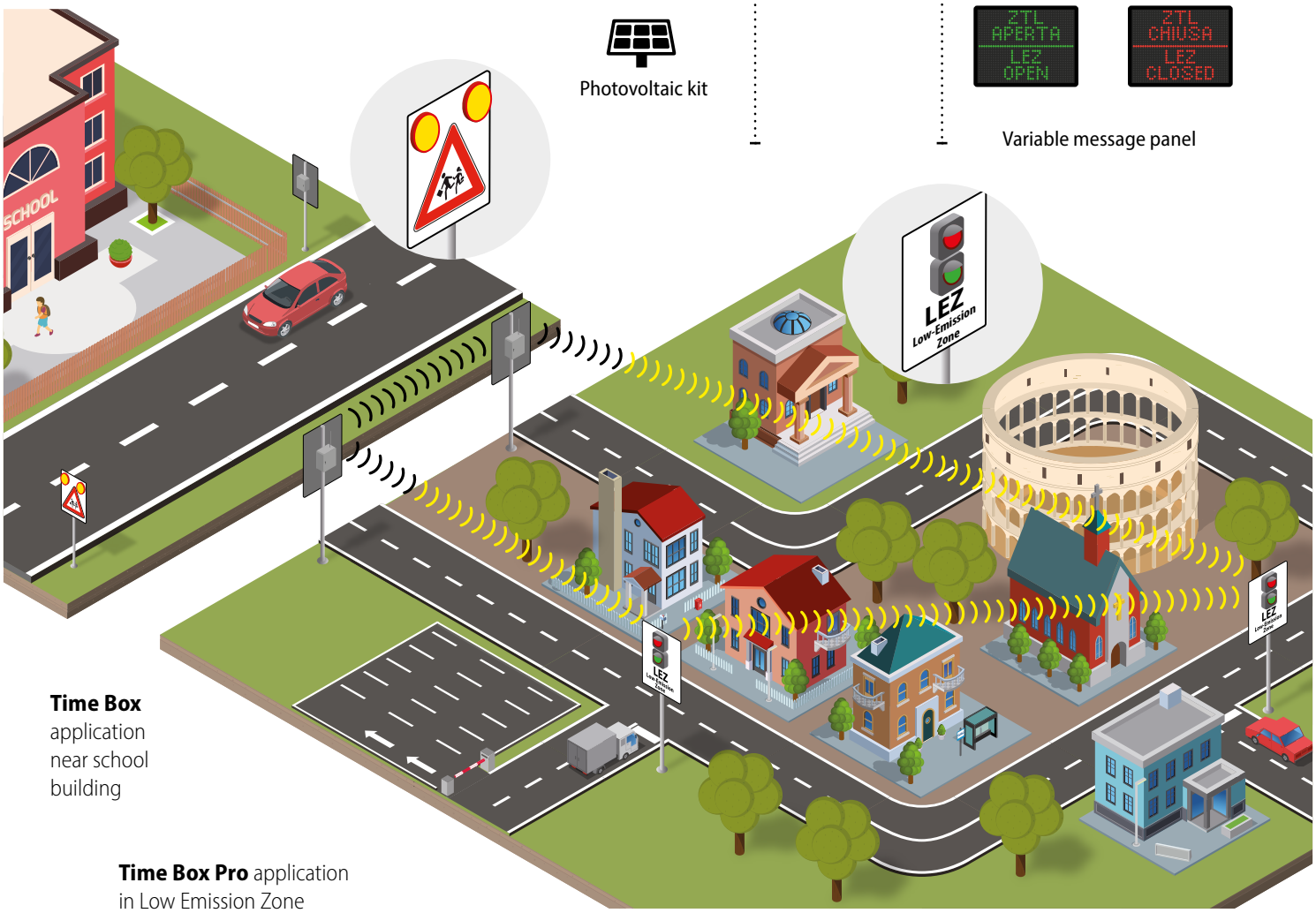
It's available also the **Time Box Pro** with which is possible, through an antenna, to synchronize different systems with each other for application like **Low Emission Zones**.

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)



Antenna for Time Box Pro





Time Box application near school building

Time Box Pro application in Low Emission Zone

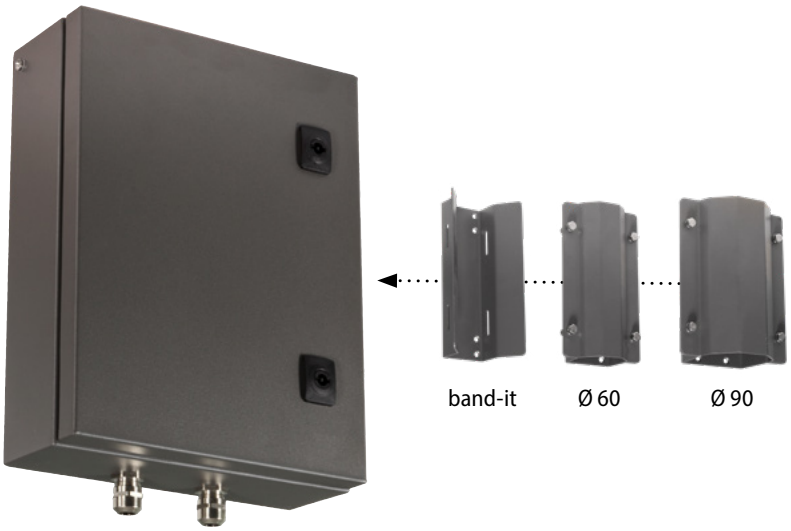
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

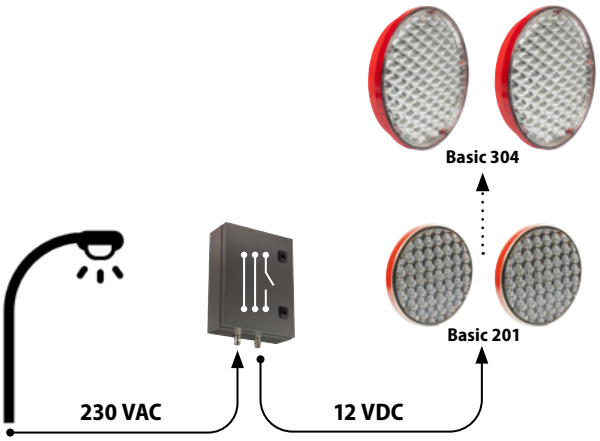
BLACK OUT

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.



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	**280 x 360 x 110 mm**	





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED BACKLIT SIGNALS



LED BACKLIT SIGNALS



SLIM

DOUBLE SIDE



BOLD

* This model can only be equipped with a silk-screened glass and not with the translucent film.

DOUBLE SIDE



DOUBLE SIDE

D-Power presents a wider range to satisfy the growing needs in road signalling.

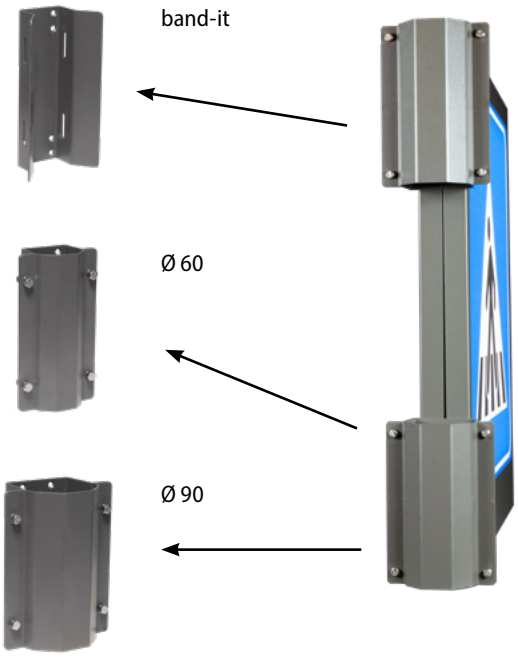
The ultrathin LED signals guarantee an high uniformity of backlighting and low maintenance. Designed and built according **EN12899**. The technology we use allows reaching the highest classes of the norm while keeping low the power consumption and overall sizes.

The backlit signals can be supplied with various traffic sign films according to the applicable road code, made using **Class 2 Superior translucent films***.

Available with several mounting options.

The new finishing color and design make them suitable for use in town centers, where the aesthetical impact is an important issue.
The LED backlit dividing marker includes the Class 2 Superior translucent film.





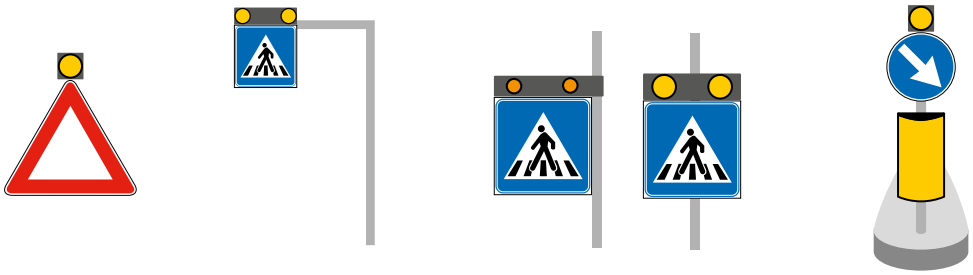
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED BACKLIT SIGNALS



Some examples of applications:



	Certification: **EN12899**		Colour: ○						
LED backlit signs	□	▽	□	□	○	□	◇	□	▮
	single side	single side	double side	double side	single side	single side	single side	double side	single side
Light emiss. area [cm]	**90 x 90**	**82 x 75**	**90 x 90**	**90 x 90**	**Ø 60**	**60 x 60**	**60 x 60**	**60 x 60**	**40 x 50**
Power cons. @230V	**54 w**	**40 w**	**50 w**	**42 w**	**-**	**40 w**	**40 w**	**40 w**	**-**
Power cons. @12V	**48 w**	**32 w**	**48 w**	**-**	**17 w**	**25 w**	**25 w**	**25 w**	**13 w**
Dimensions [mm]	**1000 x 1000 x 45**	**940 x 830 x 58**	**1005 x 1285 x 62**	**1065 x 1103 x 200**	**Ø 650 x 40**	**640 x 640 x 43**	**640 x 640 x 43**	**645 x 735 x 68**	**280 x 544 x 164**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

SPEED DISPLAYS



INDICATOR CAM

INDICATOR CAM is a mobile tool for speed enforcement on factory premises, supplied with 12V battery.

Exceeding the speed limit will trigger the recording of an image sequence.

The storage images contain time and speed information. These records can be retrieved over the factory network or directly by e-mail.



- Video surveillance
- USB flash drive compatible
- E-Mail communication
- Data Storage

Indicator CAM offers several interfaces (USB, Bluetooth, Wi-Fi, LAN, HSDPA) to download or transfer the collected data. The control panel allows the user to change parameter settings on site.



Control panel



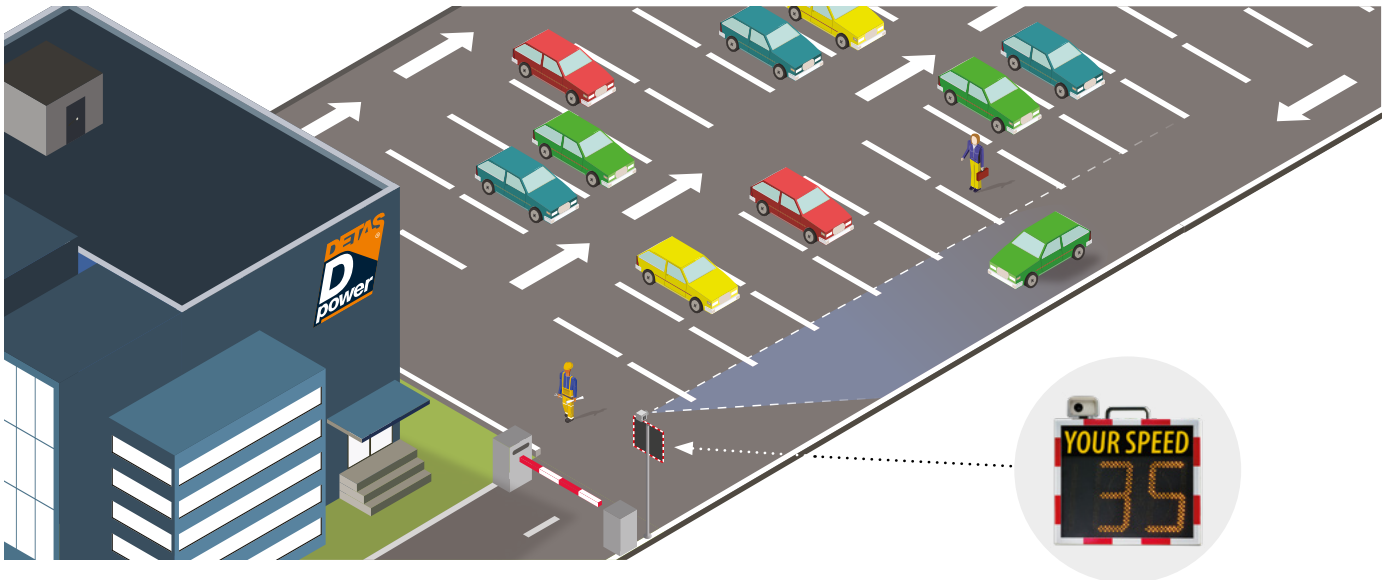
02.03.2016 - 11:03:29 / +1000ms - image-sequence 1/3 - detected speed = 32km/h
Location: Parcheggio 1 - I-25086 Rezzato - ID = 5678



02.03.2016 - 11:03:29 / +1000ms - image-sequence 2/3 - detected speed = 33km/h
Location: Parcheggio 1 - I-25086 Rezzato - ID = 5678



02.03.2016 - 11:03:29 / +1000ms - image-sequence 3/3 - detected speed = 35km/h
Location: Parcheggio 1 - I-25086 Rezzato - ID = 5678



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

INDICATOR VARIO



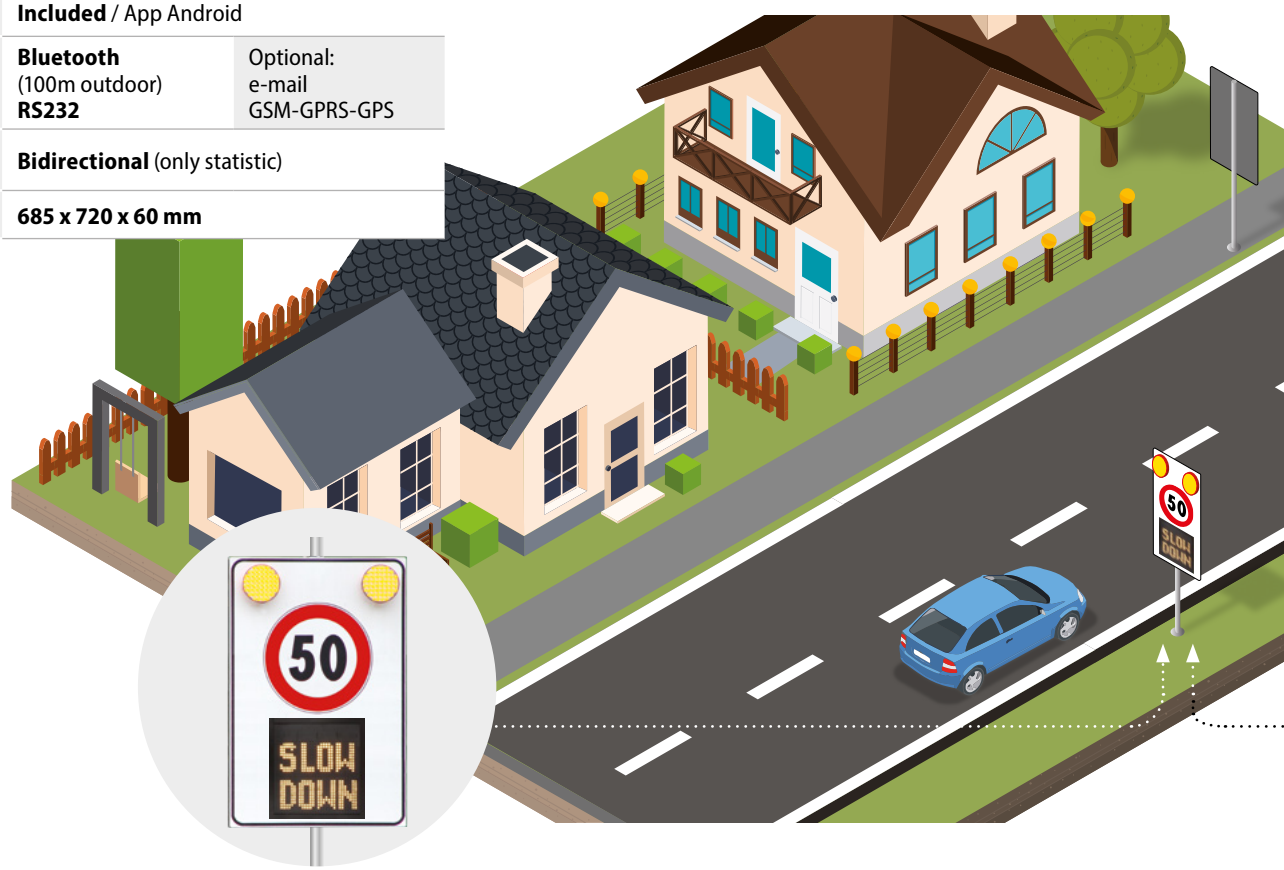
SPEED BUMP WITH VARIABLE MESSAGE DISPLAY AND INTEGRATED RADAR DETECTOR

Ideal to warn, inform or guide road users.
Time scheduled programming.
Up to 8 images can be displayed at different setting speeds.
Speed values displayable from 5 to 199 km/h.

Colour	●	
Digit height max.	**500 mm**	
Resolution	**32 x 28** (896 LED)	
Powered by	Photovoltaic kit	**50 W - 45 Ah**
	Power supply kit 230VAC 12VDC	**230 VAC/12 VDC**
	Power supply/Battery kit 230VAC 12VDC	**230 VAC/12 VDC 18 Ah Battery**
Software	**Included** / App Android	
Connection	**Bluetooth** (100m outdoor) **RS232**	Optional: e-mail GSM-GPRS-GPS
Vehicle detection	**Bidirectional** (only statistic)	
Dimensions	**685 x 720 x 60 mm**	

Some examples of views:





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

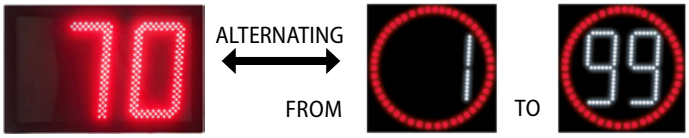
INDICATOR FLAT 3

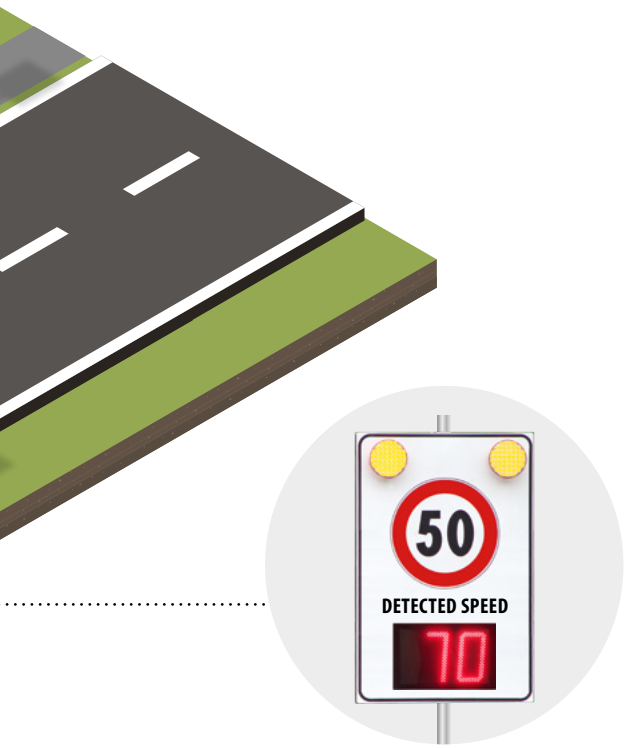


RADAR BASED, it is the ideal active signal to encourage safe driving in schools areas, road working zones, motorway intersections, etc.

All the options can be deactivated allowing to use the device in standard mode (only amber).

Some examples of views:

Double colour display	
Speed limit function	 ALTERNATING ⟷ FROM TO
Smile function	 ALTERNATING ⟷ OR



Colour	● ● ● ○	
Digit height max.	**300 mm**	
Functions	**Smile + speed limit**	
Powered by	Photovoltaic kit	**50 W - 45 Ah**
	Power supply kit	**230 VAC/12 VDC**
	Power supply/Battery kit	**230 VAC/12 VDC 18 Ah Battery**
Software	**Included** / App Android	
Connection	**Bluetooth** (100m outdooor) **RS232**	Optional: e-mail-GSM-GPRS-GPS
Vehicle detection	**Bidirectional** (only statistic)	
Dimensions	**640 x 410 x 75 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

INDICATOR LITE PLUS

COMPACT SPEED BUMP.

The device is not designed for installation onto traffic signs.
It detecs vehicle speed from 1 to 255 km/h, with speed display up to 99 km/h.

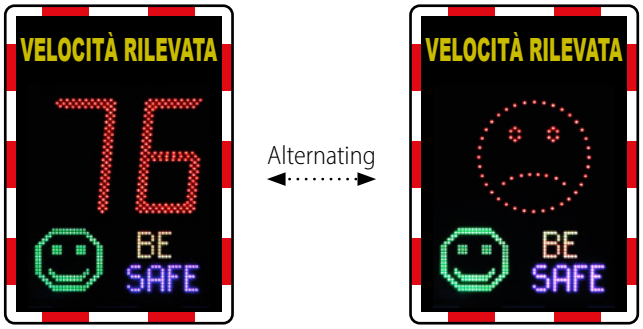
It allows storage of up to **16 customizable contents**, consisting of **text and symbols**, selectable by the user according to operational requirements. **8 colour options** are available, with the possibility to configure differentiated colour combinations for text elements.

Customization can be carried out quickly and easily via dedicated **software** or through a dedicated **iOS/Android app**.

Among its special functions, the device supports alternating display of a **smile icon / speed limit indication** on the main screen. Simultaneously, the lower section of the panel can continuously display a symbol or one or two lines of informational text.

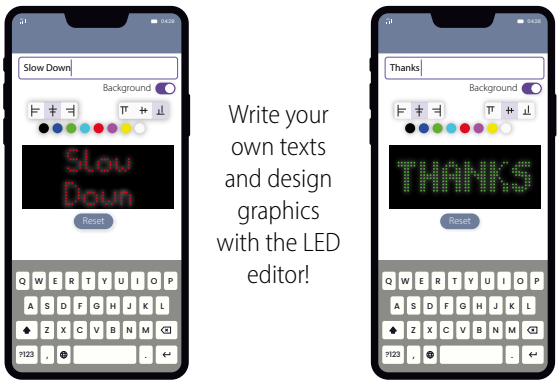
Power supply kits are integrated within the device housing.







New Smile-Function



Write your own texts and design graphics with the LED editor!

Colour		
Digit height max.	**325 mm**	
Functions	**Smile + Speed Limit + Text**	
Powered by	Photovoltaic kit	**50 W** Integrated electronics
	Power supply kit 230VAC 12VDC	Integrated
	Power supply/Battery kit 230VAC 12VDC	**2x18Ah** Integrated
Software	**Included** / iOS - Android App / PC software	
Connection	**Bluetooth and USB**	
Vehicle detection	**Bidirectional** (only for statistic)	
Dimensions	**605 x 870 x 150 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

TRAFFIC COUNTER



TRAFFIC 3000

Radar based **traffic counter** powerful compact and easy to handle. Easily installed on the side of the road from 1 to 3 m high.

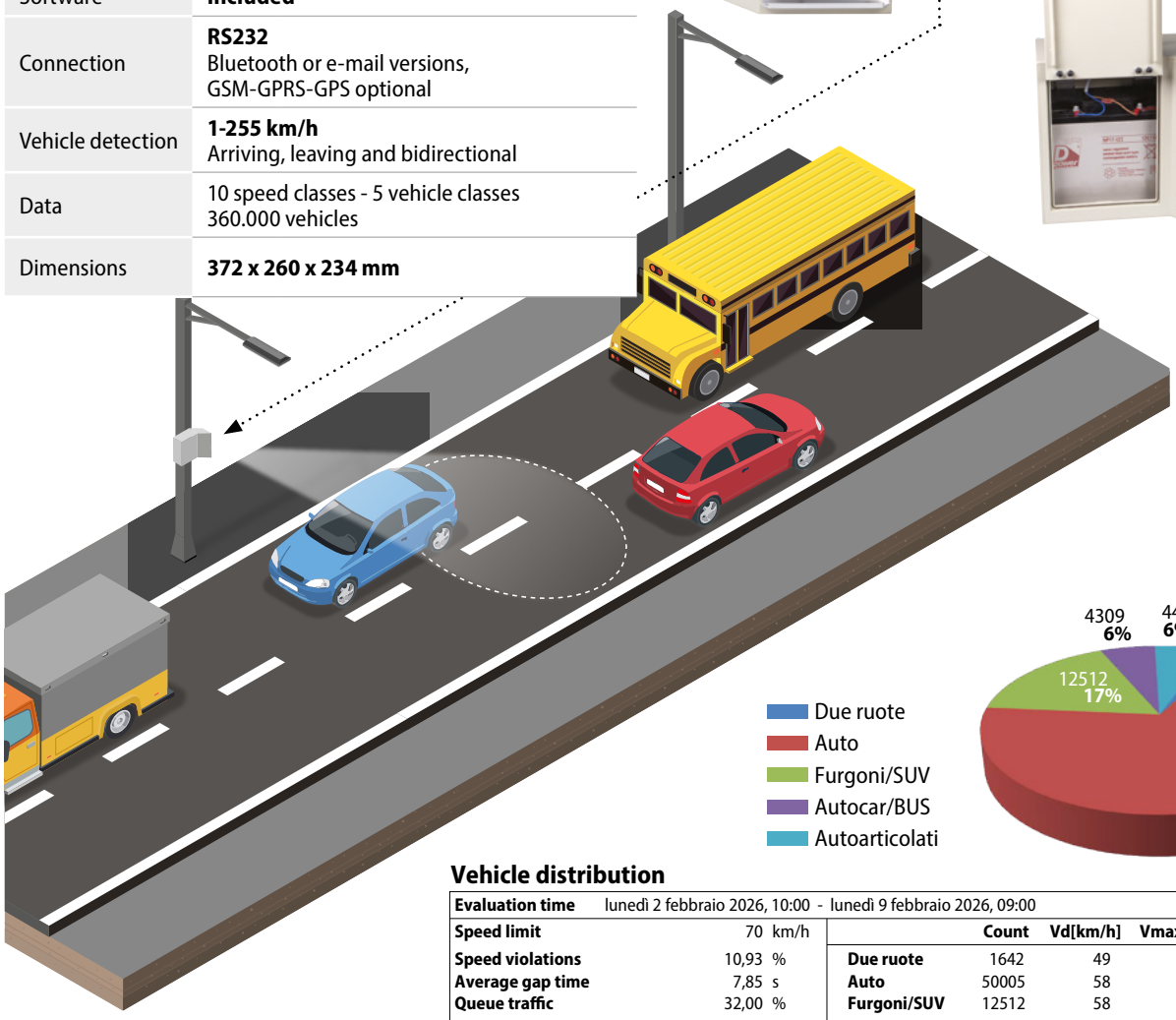
Available e-mail version with GSM/GPRS/GPS.

The device automatically sends all stored traffic data, together with GPS position details (Google Maps compatible), by e-mail every 1 to 7 days (adjustable). An e-mail or SMS will be sent if the battery voltage is low or the data storage is 95% full.

Power supply	**18Ah** Battery 2 weeks operating time
Software	**Included**
Connection	**RS232** Bluetooth or e-mail versions, GSM-GPRS-GPS optional
Vehicle detection	**1-255 km/h** Arriving, leaving and bidirectional
Data	10 speed classes - 5 vehicle classes 360.000 vehicles
Dimensions	**372 x 260 x 234 mm**







Vehicle distribution

Evaluation time	lunedì 2 febbraio 2026, 10:00 - lunedì 9 febbraio 2026, 09:00		
Speed limit	70 km/h		
Speed violations	10,93 %		
Average gap time	7,85 s		
Queue traffic	32,00 %		
ADT	10412		
LGV traffic share	11,97 %		
Evaluation direction	Arriving		

	Count	Vd[km/h]	Vmax[km/h]	V85 [km/h]
Due ruote	1642	49	93	63
Auto	50005	58	120	69
Furgoni/SUV	12512	58	109	69
Autocar/BUS	4309	55	101	65
Autoarticol	4415	55	94	63
Total	72883	58	120	68

Adaptationer:	Mario Rossi
Comment:	Viale Italia
Location:	Brescia
Arriving vehicles from:	
Departing vehicles to:	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED PHOTOVOLTAIC STREET LIGHTING



TRILOGY BUST

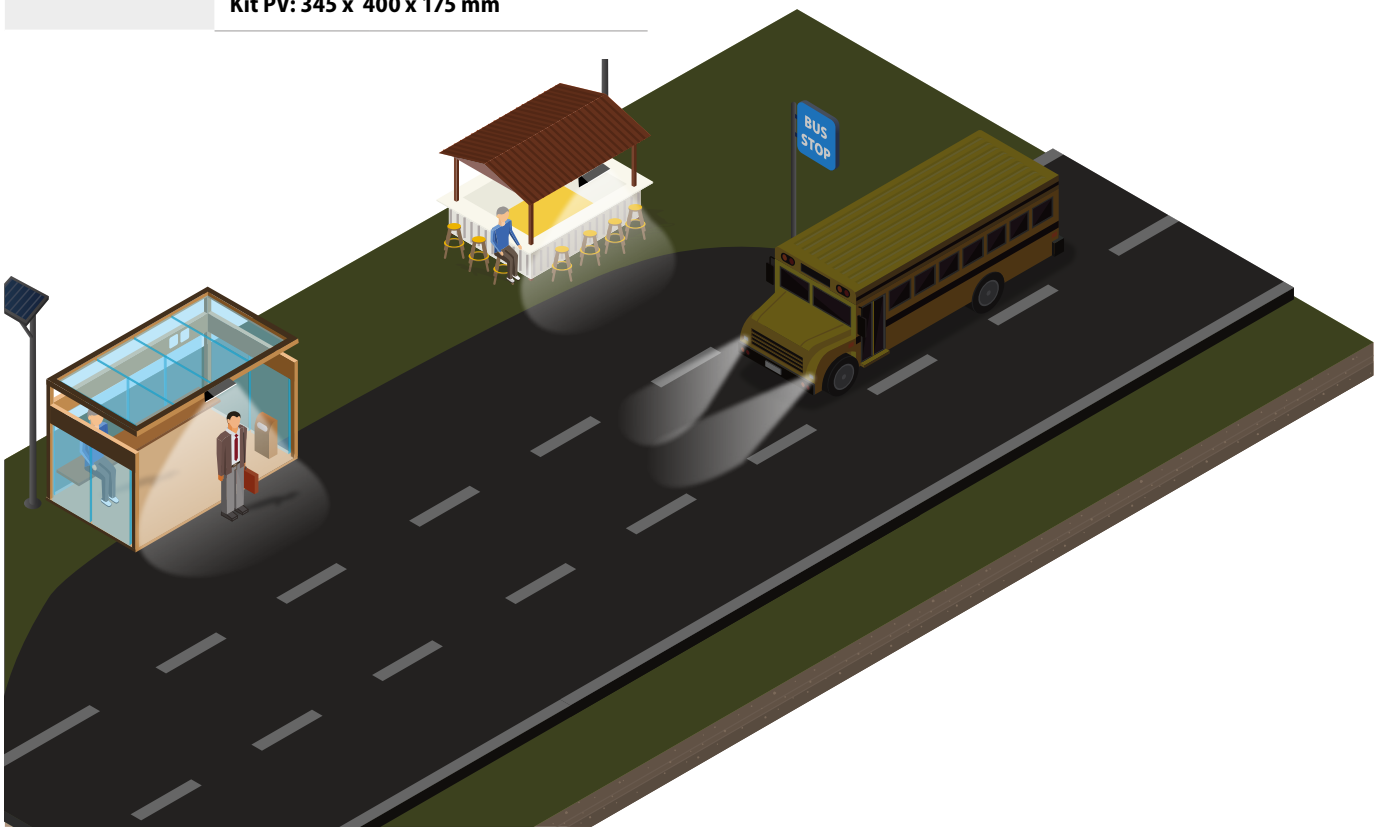
The easiest and less expensive way to properly **light places not reachable by the power grid.**

Ideal for:
- **bus shelters**
- **canopies**
- **gates**
- **gardens**
- **patio**
- **kiosks**
- **advertising signs**



TRILOGY

Colour	○ **5700 K**	
Powered by	Photovoltaic kit **20 W**	
Operating time	**>7 days** without sun	
Trilogy material	**Aluminum**	adjustable bracket included
Dimensions	**Trilogy: 80 x 91 x 300 mm** (w/o bracket) **Kit PV: 345 x 400 x 175 mm**	



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

TALOS N PHOTOVOLTAIC



With **PV lighting solutions**, you can bring light in areas not accessible from the power supply, reducing the installation costs by avoiding the laying of new cables.

Our systems are characterized by the use of top quality components and oversized to ensure the best reliability:

- Use a **regulator** to protect the batteries from deep discharge and overload.
- Specific **LiFePo Batteries** for photovoltaic applications.
- Photovoltaic panel and separated cabinet to make the maintenance operations easier.
- Dimensioning of the system that offers an operating time of 10 days without sun.

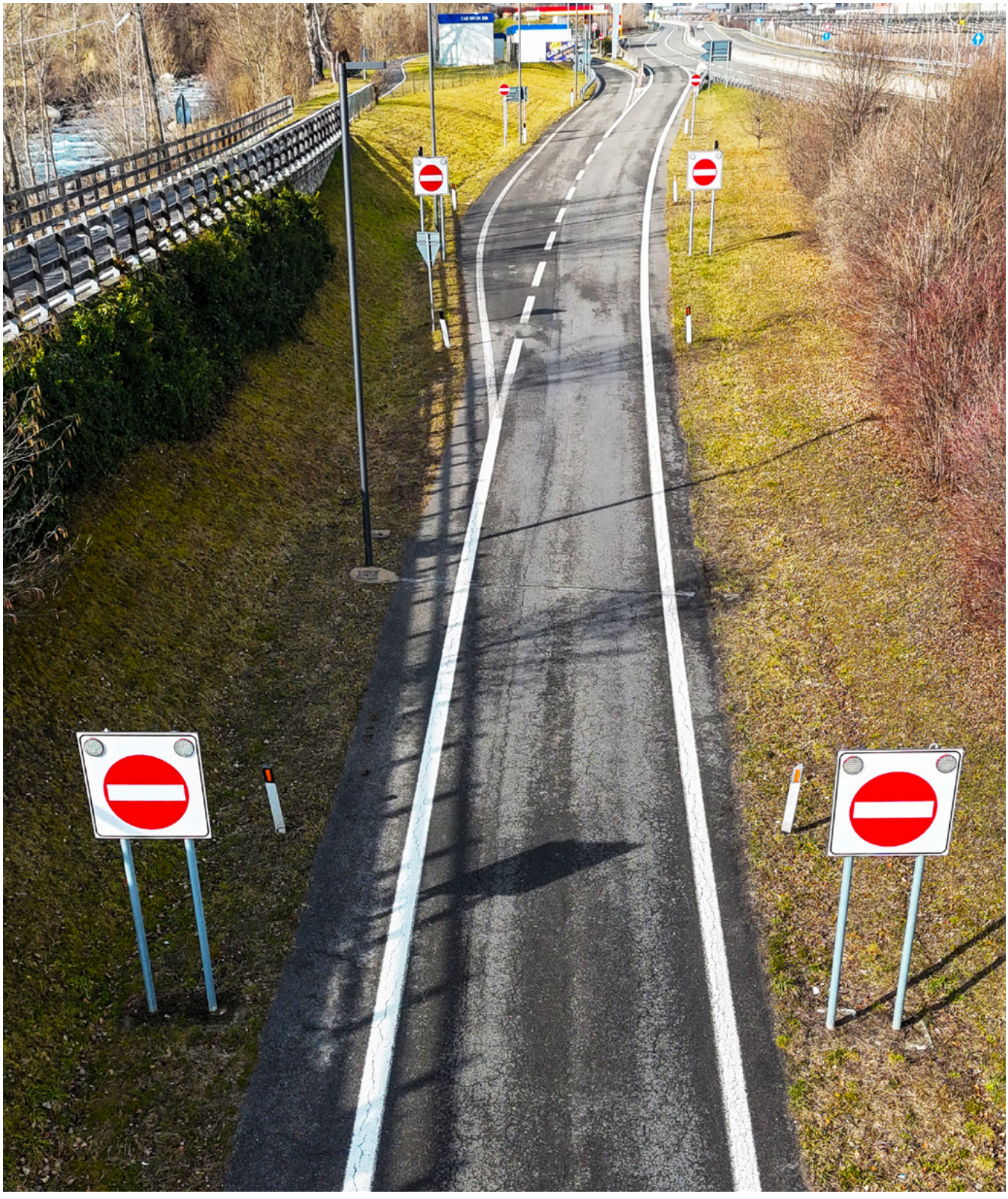
Other combinations available.

Talos N	**Die-cast aluminum Supercast®**	Tempered glass	IP66
Power cons.	**19 W**		
LED	○ **4000 K**	**CRI >70**	**L90 >100.000 hrs**
Photovoltaic kit		**12 VDC 190 W**	
Operating time	**10 days**		
Dimensions	**Talos N: 558 x 247 x 80 mm** (mounting Ø60 excluded) **PV panel: 676 x 1482 x 30 mm** **Cabinet: 306 x 695 x 202 mm**		

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

ADVANCED SAFETY SYSTEMS



SAFETY WAY

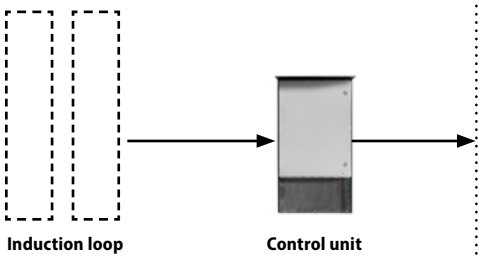
WRONG DIRECTION VEHICLE DETECTOR



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.**



Options:


Basic 304


Traffic light 0300


Speaker


Camera

Watch the video:

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

RAV

VEHICLE HEIGHT DETECTOR



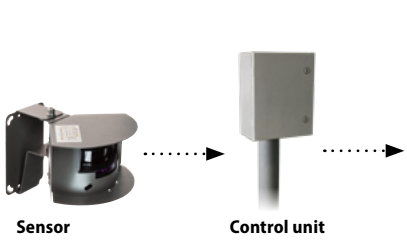
The RAV is a system capable of detecting the height of vehicles in transit with only one sensor installed on the side of the road.
If the sensor detects that the maximum allowed height has been exceeded, the system activates a pair of flashers, a siren, a traffic light or a fixed message panel.

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.**



Options:


Basic 304


Basic 201


LED traffic lights


Speaker



LED panel



Watch the videos:

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

RAS

UNDERPASS FLOOD DETECTOR

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

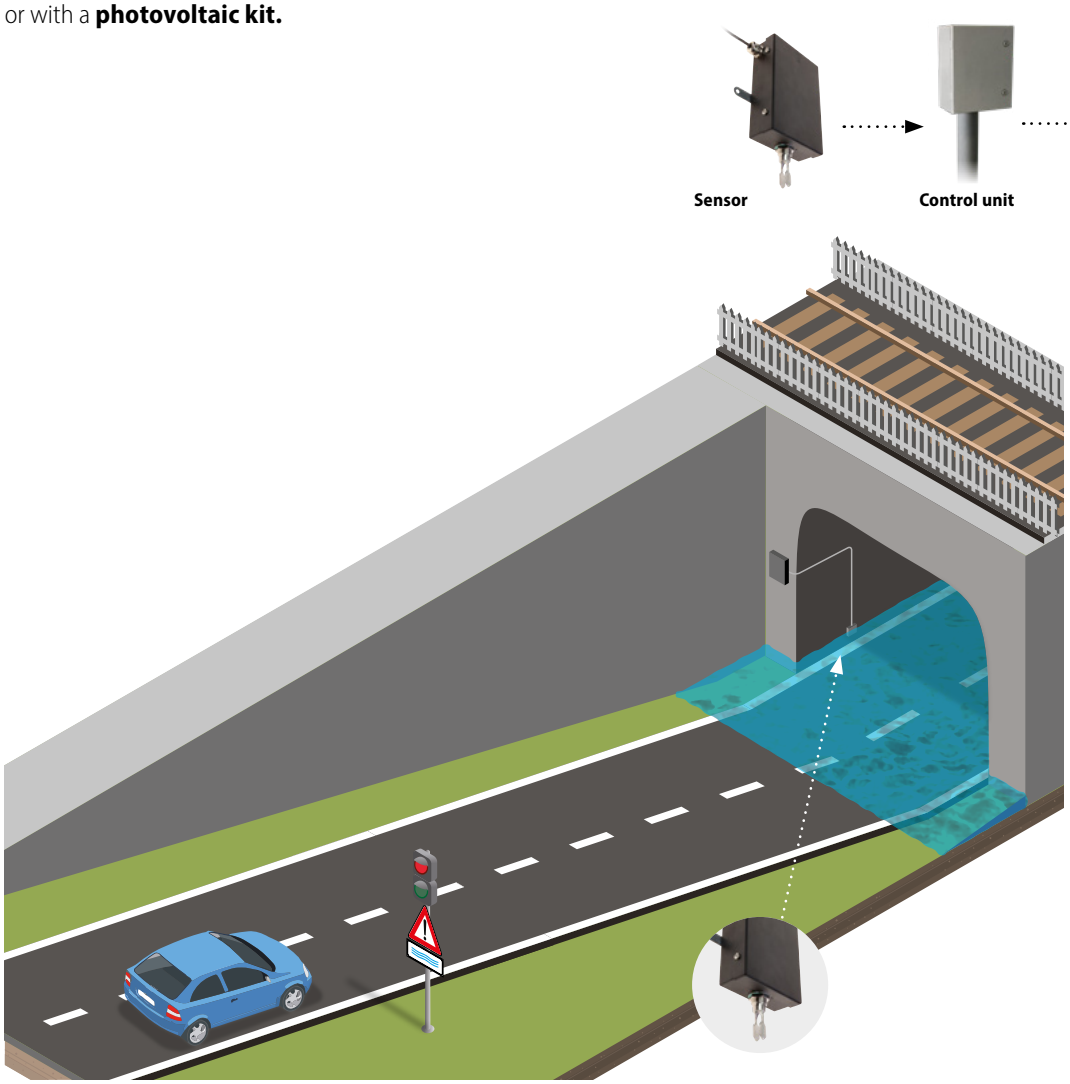
The **capacitive technology sensor** is highly reliable and is able to detect flooding and generate an alarm that is transmitted to the control unit.

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.**





Sensor

Control unit

Options:



Basic 304



Basic 201



LED traffic lights

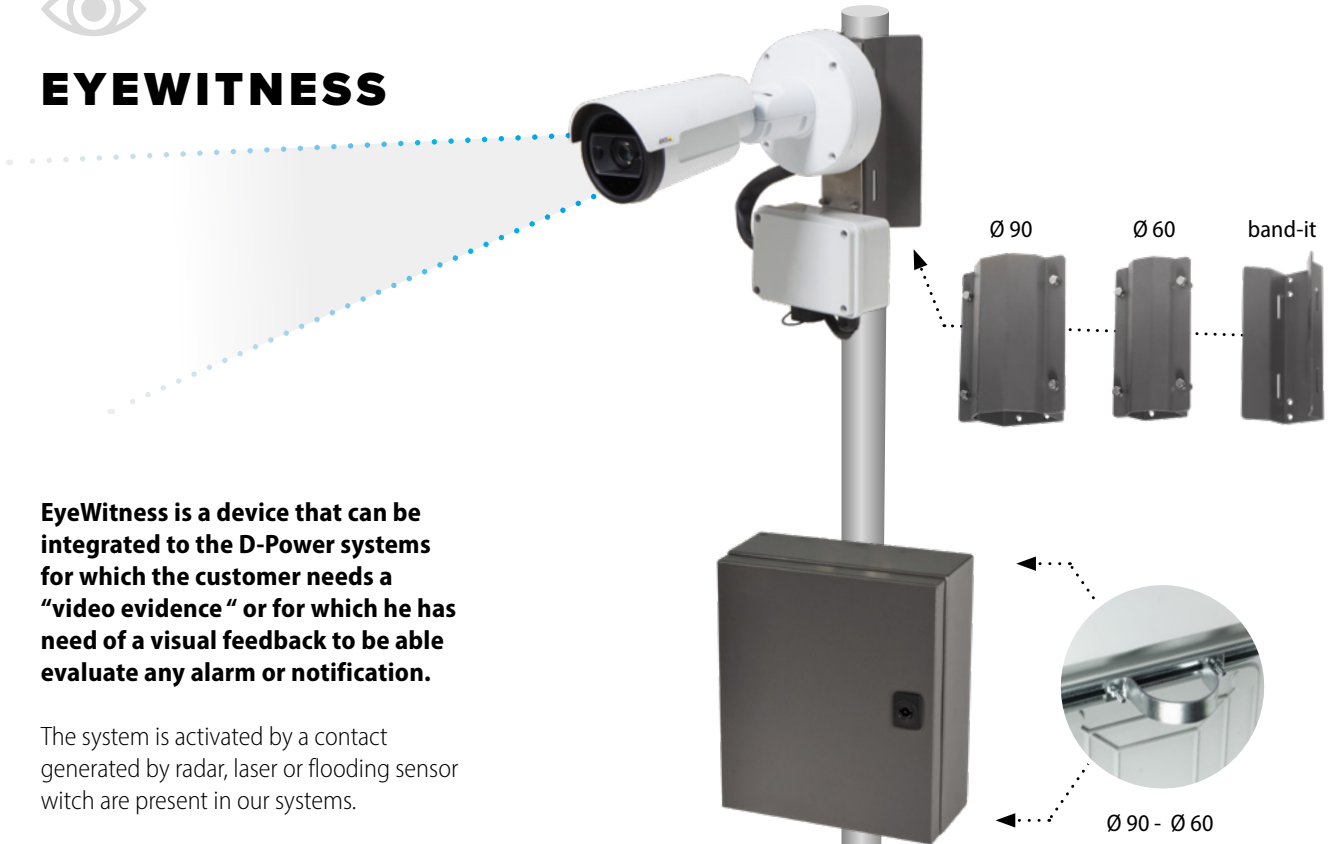


LED panel

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

EYEWITNESS



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.

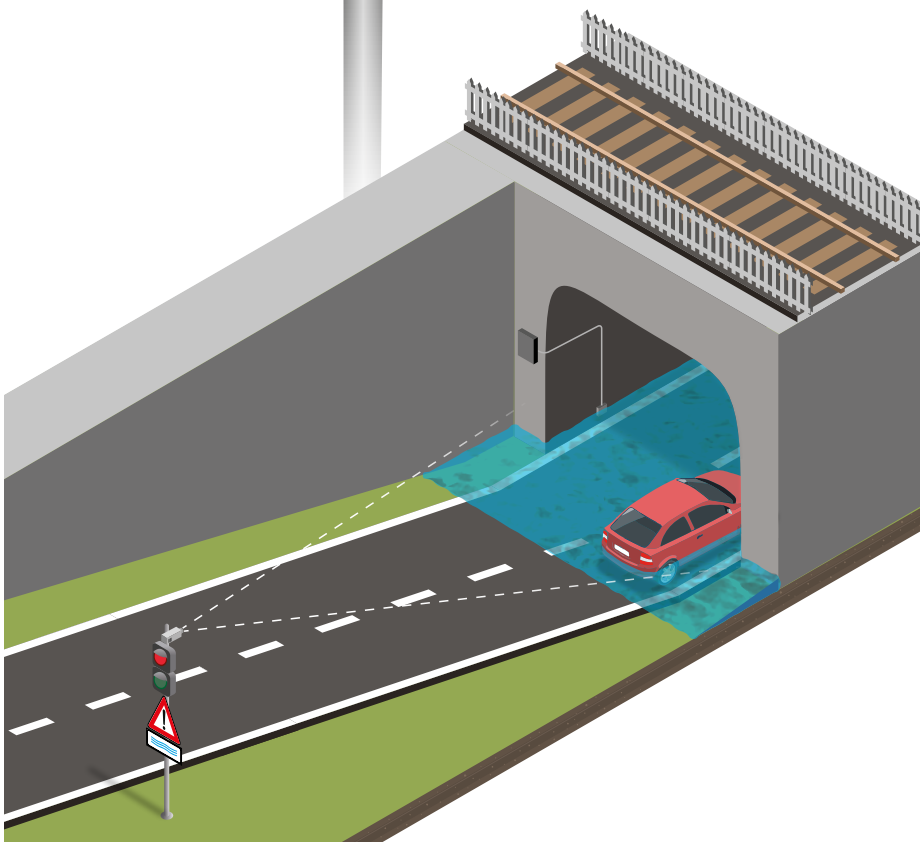
Features:

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



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FIXED SAFETY DEVICES

PEDESTRIAN CROSSING LIGHTING SYSTEMS



At night and in poor visibility hours, the pedestrian crossings must be properly illuminated and signaled:

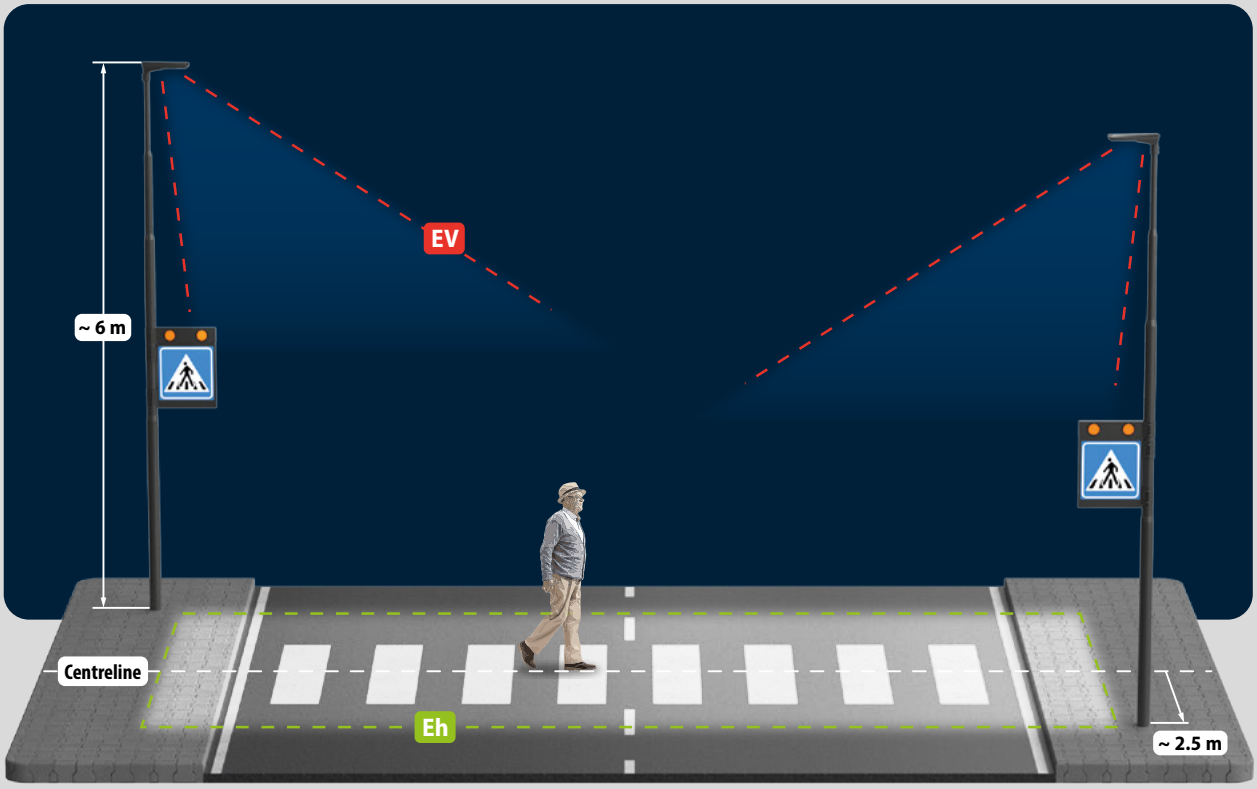
SIGNAL using LED flashers certified according to **EN 12352** and LED backlit signals according to **EN 12899**.

ILLUMINATE an horizontal plan, highlighting the crossing with a minimum recommended light level of 100 lux (average) **and a vertical plan**, lighting perfectly the body of pedestrians making them visible, starting from the waiting area, extremely important factor to prevent accidents on crossings.

The LED luminaires **Talos G and Talos N** have been designed with a dedicated optic specifically to illuminate crossings, creating a positive contrast between the pedestrian and the surrounding environment, producing a very **high vertical illumination** level according to **EN13201**.



+39 030 2594120
info@d-power.com
D-POWER.COM



LUMINOUS FLUX [LUMEN]

The luminous flux is measured in lumens and represents the quantity of light produced from a fixture, hence it can't be measured on a point or surface.
It is a task of the optics to distribute this light properly on the crossing. For instance, a light fixture producing 15,000 lm, may provide less light on the crossing of a fixture producing 12,000 lm.

ILLUMINANCE [LUX]

The illuminance is the quantity of light measurable on a plan of the crossing. It is measured in lux and in most of the cases the determining factor is the average illuminance and the overall uniformity (ratio between min lux and avg lux).

HORIZONTAL ILLUMINANCE EH [LUX]

Is the quantity of light measured on the horizontal plan [Eh] of the crossing. The high level achievable and the super concentrated beam allow an unmatched visibility and ease of **identification from distance of the crossing**.

VERTICAL ILLUMINANCE EV [LUX]

Is the quantity of light measured on the vertical plan [Ev] of the crossing. The high level achievable allows the **maximum visibility of pedestrians**, creating a positive contrast with the surrounding environment.

+39 030 2594120
info@d-power.com
D-POWER.COM

APL

CLASSIC

APL Classic is the **signalling and lighting system of pedestrian crossings** designed to achieve a high level of safety for pedestrians. The flashers are always active, the lighting fixtures and the backlit signs work only at night.

Without APL



With APL



Night Comfort mode optimizes LEDBox operation by prioritizing daytime flashing when it is the **only signal present**.

At night, when dedicated lighting and backlit signs already **"protect" pedestrian crossings**, this operating mode ensures a visually consistent and comfortable environment in **residential and sensitive areas**.

SYSTEM COMPONENTS

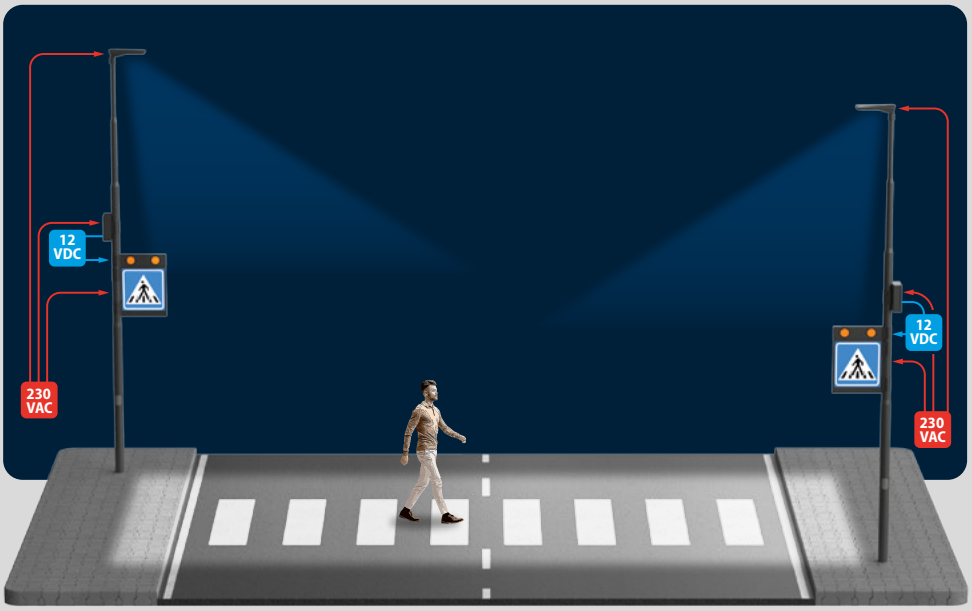
LED luminaires	LED backlit signs - double side		LEDBox	
Talos G	60 x 60	90 x 90 slim	4 projectors Basic 102	2 projectors Basic 201
				
Power supply				
Talos N	Power supply / Battery kit APL Classic 230		Control unit APL Classic ELV	
				

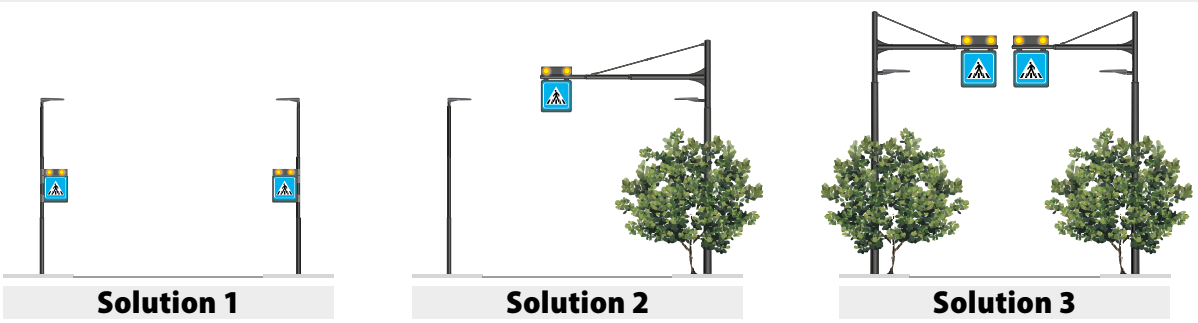
+39 030 2594120
info@d-power.com
D-POWER.COM

APL CLASSIC 230

This system works at 230 V and it is mostly suited for applications where mains power is available at both sides of the road.

No cutting across the street required.



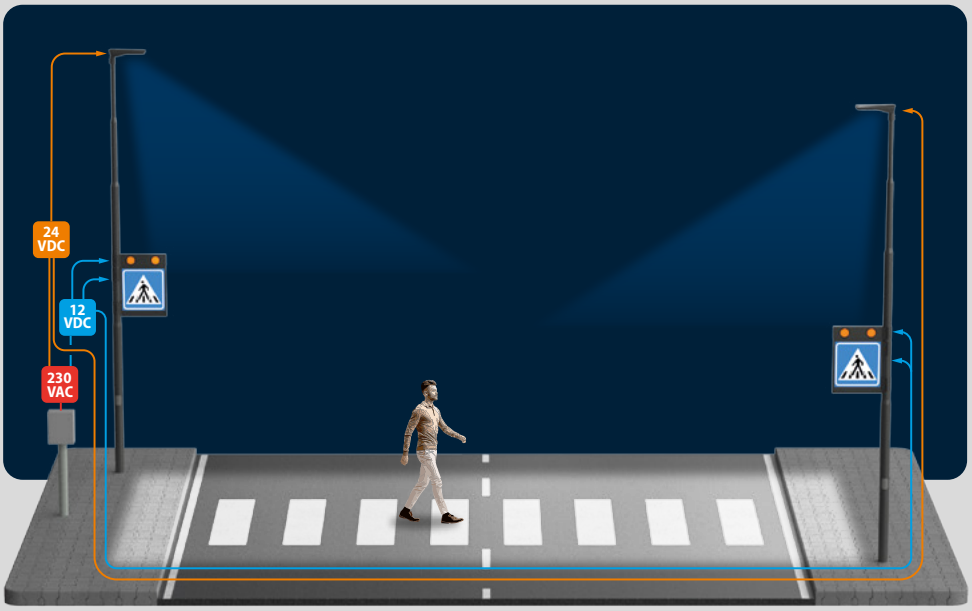


Solutions 2 and 3 are suitable for installations on roads with limits above 50 km/h (e.g. 70)

APL CLASSIC-ELV

This is the Extra Low Voltage version that makes installation easier when mains power is available at one side of the road only.

Cutting of the street required.



+39 030 2594120
info@d-power.com
D-POWER.COM

1



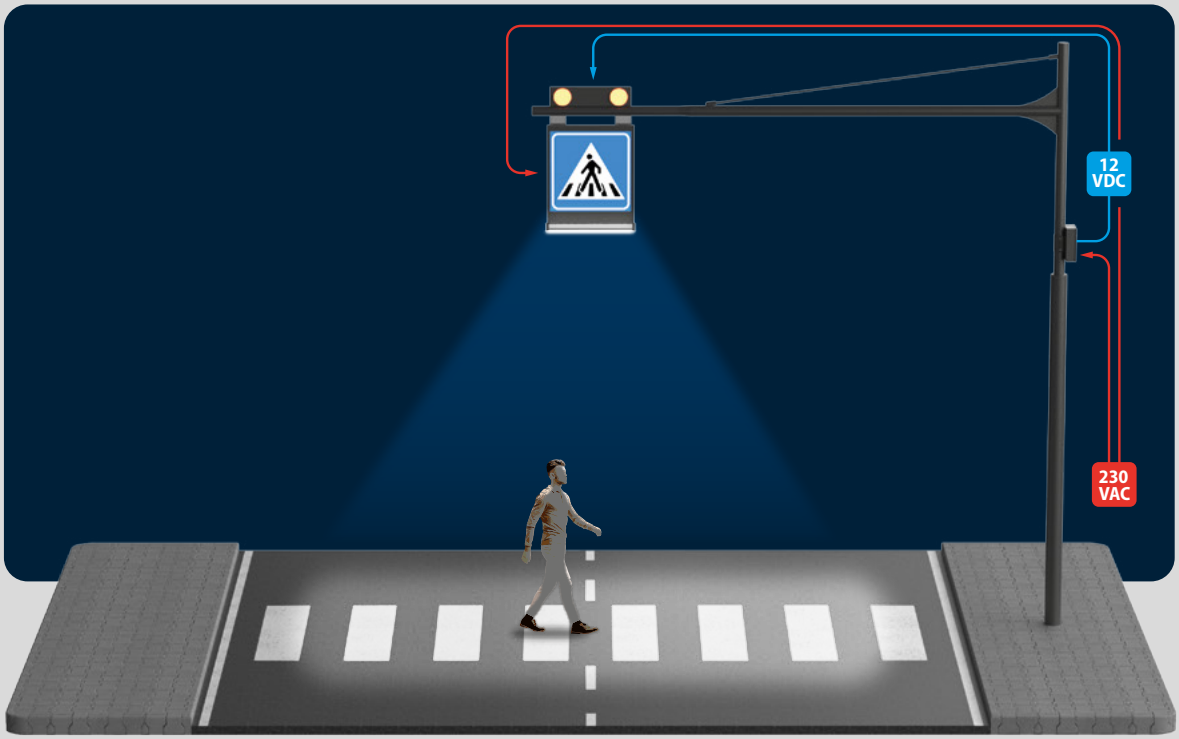
2



SYSTEM COMPONENTS

LED luminaires	LED backlit signs - double side		LEDBox	Power supply	
Trilogy N	90 x 90 slim	90 x 90 bold	2 projectors Basic 201	Power supply/ Battery kit	Kit Astro
					

+39 030 2594120
info@d-power.com
D-POWER.COM

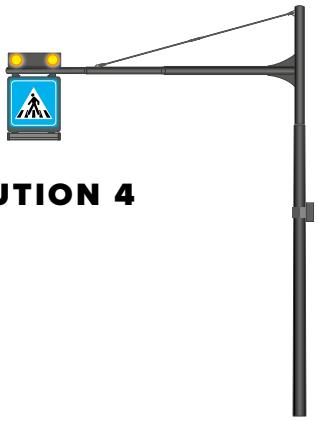


The APL Classic SOLUTION 4 originated from a need to offer a product that can be used as a retrofit on old installations and for some applications where it is not possible to lay a pole on one side of the road.

This solution, however, does not comply with the **UNI/TS 11726** because it only guarantees good horizontal illumination but not the vertical one that is necessary to make the pedestrian visible.

As you can see in **picture 1** a pedestrian crossing exactly on the axis is visible even if not illuminated correctly. If the pedestrian crosses on another area (**picture 2**) for one traffic direction is going to be visible only thanks to the negative contrast that is created between its black shape and the background illuminated by the surrounding public lighting.

It is important to remember that, in order to prevent accidents, the pedestrian must be visible from the waiting areas and this solution does not reach an adequate level of vertical illuminance in such areas, especially on wide roads.



SOLUTION 4

Power Supply/Battery Kit has been created for connection of the public lighting network (available only at night), in addition to a flashing module for the LEDBox (L50), it is equipped with a battery for operating the lights also during daytime.

Kit Astro has been created for connection to the 230V network (available 24 hours a day), and in addition to flashing module for the LEDBox (L50), it is equipped with an astronomical switch that turns off the backlit sign and LED light fixtures during daytime.

+39 030 2594120
info@d-power.com
D-POWER.COM

A P L
SMART

APL Smart is the latest evolution of **signalling and lighting of pedestrian crossings** created to make them interactive and safer. The system is activated by button or motion sensor, increasing the lighting level on the crossing from 40% to 100% and turning on the LED flashers.

1
Stand-by 40%



2
100%



SYSTEM COMPONENTS

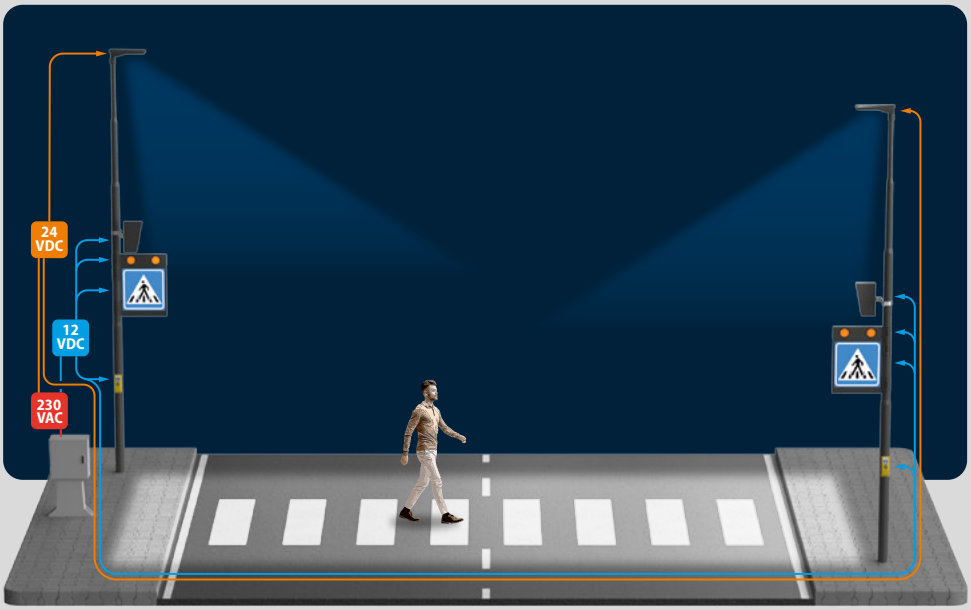
LED luminaires	LED backlit signs - double side		LEDBox	
Talos G	60 x 60	90 x 90 slim	4 projectors Basic 102	2 projectors Basic 201
				
Control unit			**Activation devices**	
APL Smart ELV	APL Smart Wireless 230		Sensor and push-button	Touch-button
				

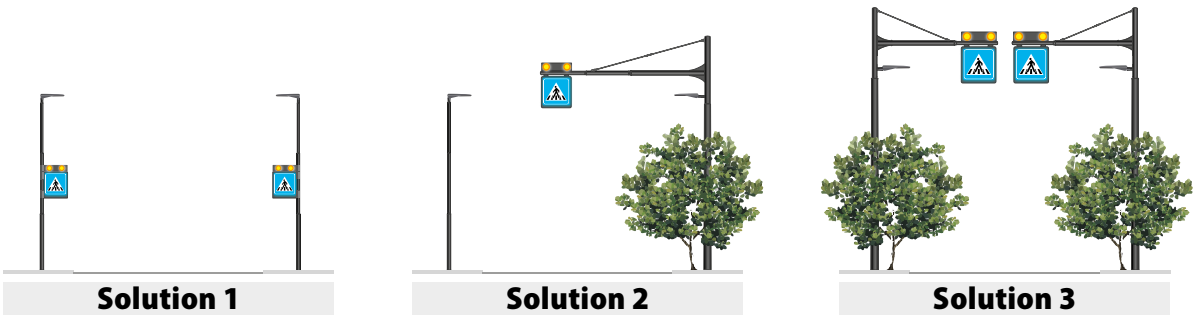
+39 030 2594120
info@d-power.com
D-POWER.COM

APL SMART-ELV

This is the Extra Low Voltage version that makes installation easier when mains power is available at one side of the road only.

Cutting of the street required.



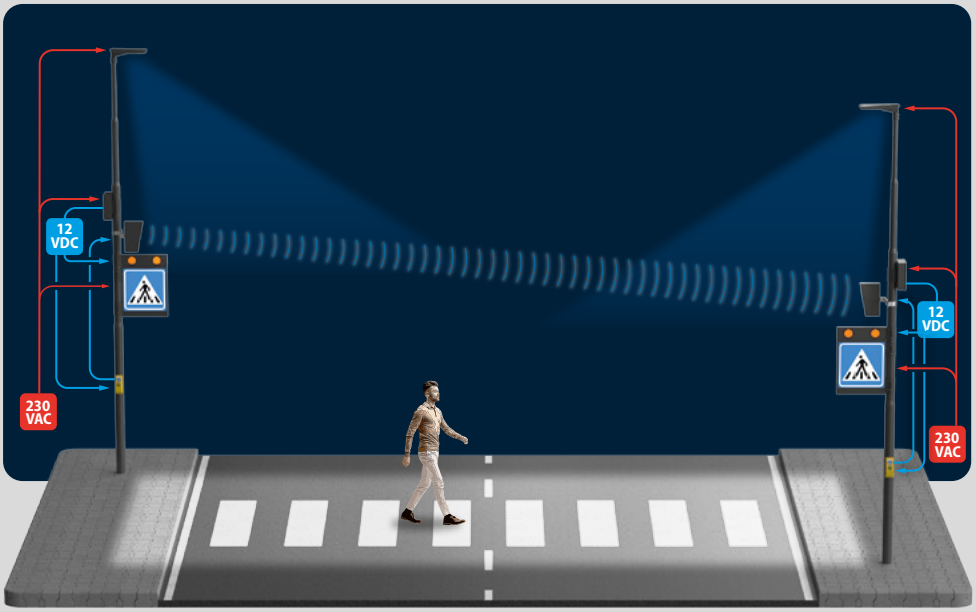


Solutions 2 and 3 are suitable for installations on roads with limits above 50 km/h (e.g.)

APL SMART WIRELESS 230

This system works at 230 V and it is mostly suited for applications where mains power is available at both sides of the road.
No cutting across the street required.

The communication between control units is wireless.



+39 030 2594120
info@d-power.com
D-POWER.COM

APL
SOLAR

APL Solar combines the technological advantages of our APL solutions with the need to install such **systems in areas not covered by the AC grid**.

1



2



SYSTEM COMPONENTS

LED luminaires	LEDBox	Control unit		APL Solar active activation devices	
Talos N	4 projectors Basic 102	APL Solar	APL Solar Active	Sensor and push-button	Touch-button
					

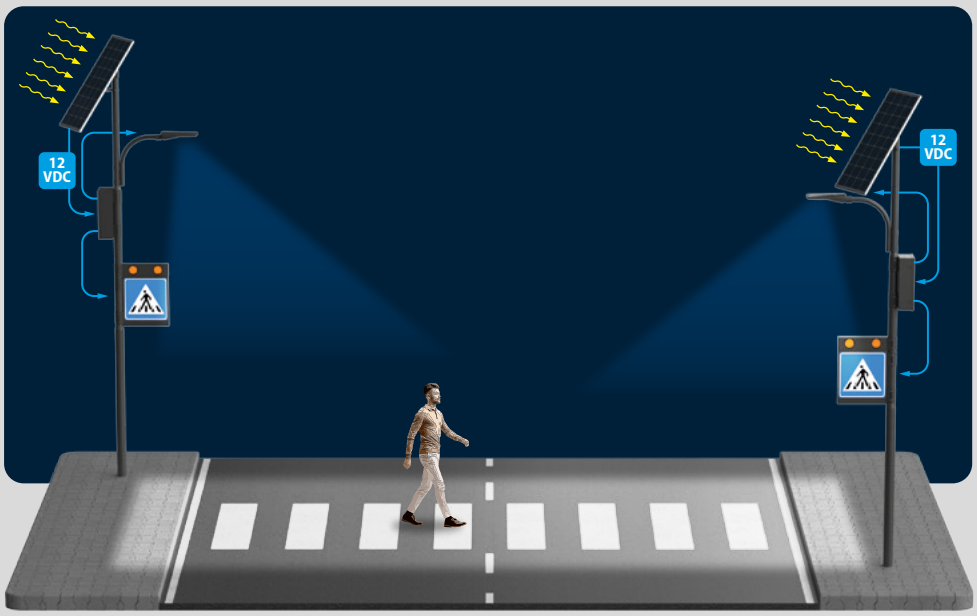
+39 030 2594120
info@d-power.com
D-POWER.COM

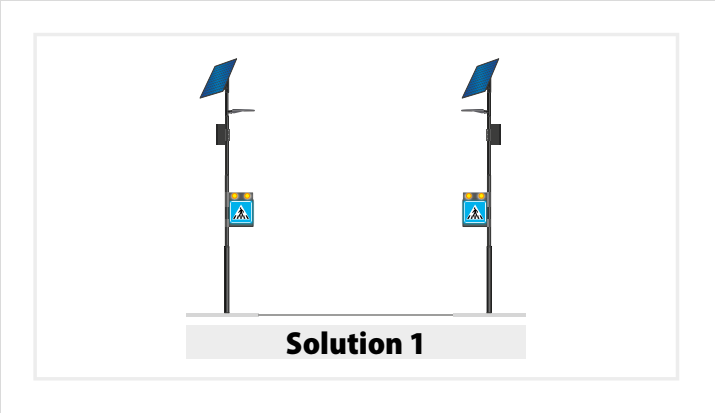
APL SOLAR

Even if with lower power comparing to AC APL (APL Classic and APL Smart), the APL SOLAR (with Talos N) can guarantee sufficient horizontal and vertical illuminace levels in compliance with the EN 13201 and a good warning system thanks to the LED warning lights certified and approved according to EN 12352.

The solution consists of a modular system that simplifies installation and maintenance.

The kit includes a photovoltaic panel and an external cabinet containing all the control electronics.



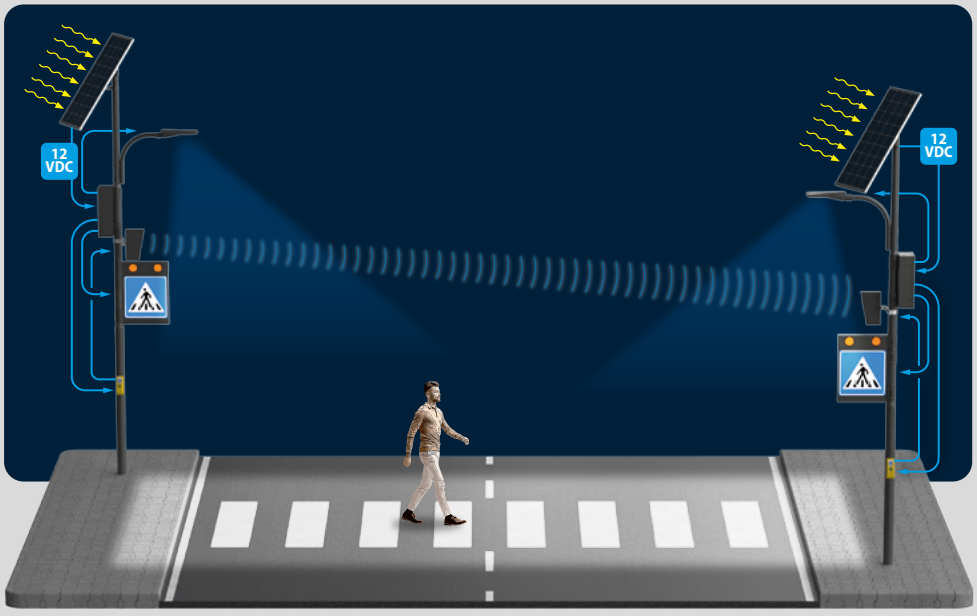


APL SOLAR ACTIVE

Lighting is activated automatically at night to allow a basic safety level and makes the crossing visible to drivers and pedestrians.

The LED flashers are activated by **push button or motion sensor**.

A wireless connection activates immediately the flashers of the opposite side.



+39 030 2594120
info@d-power.com
D-POWER.COM

APL

THE COMPONENTS



TALOS G



TALOS N



TRILOGY N



DOUBLE SIDE 90X90 SLIM

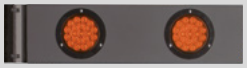
DOUBLE SIDE 90X90 BOLD



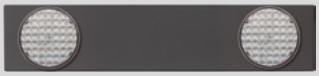
DOUBLE SIDE 60X60

LED luminaires with dedicated double asymmetric optic targeting the highest classes **EV** of the **EN13201.**	Compliance	**EN13201**		
	LED optic	**Asymmetric L -R** Specific for pedestrian crossing		
	Input voltage	**230 VAC**	**24 VDC**	**12 VDC** (APL Solar)
	Power cons.	**TALOS G** **TALOS N**	**134 W** **74 W**	**15 W** (APL Solar)
	Material	**Die-cast aluminum SUPERCAST®**		
	Mounting	**Ø60**		
	Dimensions	**TALOS G** **TALOS N**	**690 x 360 x 225 mm** **500 x 80 x 247 mm**	
LED bar specifically designed for pedestrian crossing. The narrow optic is able to deliver very high horizontal values on the zebra crossing. It is used in combination with 90x90 backlit signs.	Compliance	**EN13201**		
	LED optic	**Symmetric** Specific for pedestrian crossing		
	Input voltage	**230 VAC**	**12 VDC**	
	Power cons.	**45 W**		
	Material	**Aluminum**	Adjustable bracket included	
	Dimensions	**80 x 91 x 1000 mm** (w/o bracket)		
Our **backilluminated LED signs** are extremely important to make the pedestrian crossing visible from long distances. The perfect uniformity and luminance values of the signs are our competitive advantage. The backilluminated sign LED 90x90 can be equipped with lower LED Trilogy bar.	Compliance	**EN12899**		
	LED colour	○ **Double side**		
	Model	**Double side BOLD**	**Double side SLIM**	**Double side flag**
	Light emission area	**90 x 90 cm**	**90 x 90 cm**	**60 x 60 cm**
	Input voltage	**230 VAC**	**230 VAC - 12 VDC**	**230 VAC - 12 VDC**
	Power cons.	**230 VAC - 42 W**	**230 VAC - 54 W** **12 VDC - 48 W**	**230 VAC - 40 W** **12 VDC - 25 W**
	Mounting	**Tilting system**	**Tilting system**	**Ø60 - Ø90 mm Band-it**
	Dimensions [mm]	**1065X1240X200**	**1000X1140X63**	**646X730X63 (bracket excluded)**
	Code figure's application	**silk-screened polycarbonate glass**	**Class II superior translucent films**	**Class II superior translucent films**

+39 030 2594120
info@d-power.com
D-POWER.COM



LEDBOX BASIC 102



LEDBOX BASIC 201



SENSOR AND PUSH-BUTTON



TOUCH-BUTTON

LEDBoxes are devices with certified LED projectors to be combined with our backlit to increase visibility of the pedestrian crossing especially during the daytime.	Certification	Basic 102 Basic 201	**EN12352 - L2H** **EN12352 - L8H**
	LED colour	●	Basic 102 x 4 (single side) Basic 201 x 2 (double side)
	Input voltage	**230 VAC**	**12 VDC**
	Power cons.	Basic 102 Basic 201	**15 W** **15 W**
	Fixing	Pole	**Ø60 - Ø90** **Ø114 (APL Solar)** **Band-it**
	Box dimensions	**645 x 160 x 60 mm** **600 x 160 x 60 mm (APL Solar)** **900 x 210 x 120 mm**	
Activation devices. The sensor and the buttons make the system interactive and safer.	Certification	CE	
	Input voltage	**12 VDC**	

CONTROL AND POWER SUPPLY UNITS

APL SMART ELV CONTROL UNIT	Fiberglass cabinet, base, power supplies, timer, flashing control module, predisposition for Pb AGM battery, battery charging system.	**APL CLASSIC ELV CONTROL UNIT**	Fiberglass cabinet. Pole with fixing bracket. Power supplies, protections and flashing control module.	**APL SMART WIRELESS 230 CONTROL UNIT**	Akzo900 powder coating metal cabinet, timer power supply, flashing/ radio control module, battery charging system. Battery: 9Ah Pb AGM Mounting: band-it / pole Ø90 mm
					
KIT ASTRO	Time Box Astro has been created for connection to the 230V network (available 24 hours a day), and in addition to flashing module for the LEDBox (L50), it is equipped with an astronomical switch that turns off the backlit sign and LED light fixtures during daytime. Flashing: L50 Flash 10% Mounting: band-it / pole Ø90 mm	**APL CLASSIC POWER SUPPLY/BATTERY KIT**	Power Supply/Battery Kit has been created for connection of the public lighting network (available only at night), in addition to a flashing module for the LEDBox (L50), it is equipped with a battery for operating the lights also during daytime. Battery: 12Ah - 18Ah Flashing: L50 Flash 10% Mounting: band-it / pole Ø90 mm	**APL SOLAR / SOLAR ACTIVE PHOTOVOLTAIC KIT**	The solution consists of a modular system that simplifies installation and maintenance. The kit includes a photovoltaic panel and an external cabinet containing all the control electronics. Peak power: 190 W Battery: 80 Ah LifePO Output voltage: 12 V Mounting: pole Ø90 mm
					

+39 030 2594120
info@d-power.com
D-POWER.COM


02


FOR
ROAD WORK

LED LIGHTS FOR ROAD WORK



BASIC 210

Basic 210 is a LED warning light for temporary use.

It is available in different models and it is suitable for all the applications where there is a need to warn, inform or guide road users.

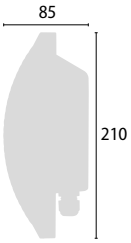


Certification	**EN12352 L8H - L8M**
Input voltage	**12/24 VDC**
Colour	
Max. power consumption	**6 W**
Dimensions	**Ø 210 x 85 mm**



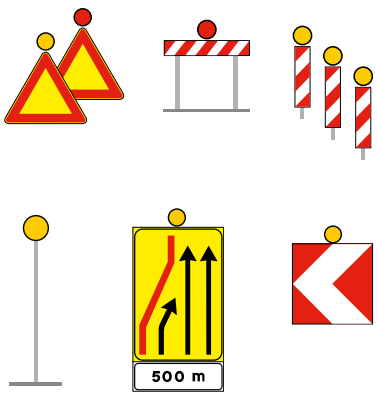






Flashing	**Power cons. @12V**	
FlashLED (10%)	**1.2 Ah**	/day
TriFlash (5%+5%+5%)	**1.8 Ah**	/day
Single (50%)	**6 Ah**	/day
Steady	**12 Ah**	/day

Some examples of applications:



Adapter for Ø40 mm panels



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BASIC 211

Basic 211 is the flat version of the Basic 210.

It is available in different models and it is suitable for all the applications where there is a need to warn, inform or guide road users.

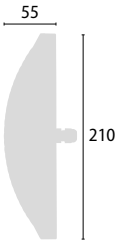


Certification	**EN12352 L8H - L8M**
Input voltage	**12/24 VDC**
Colour	● ● ●
Max. power consumption	**6 W**
Dimensions	**Ø 210 x 55 mm**



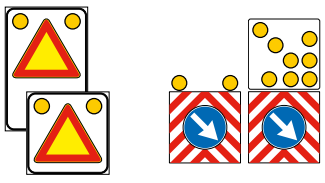


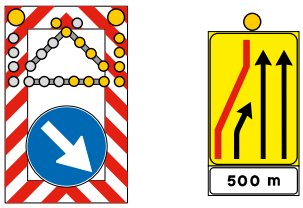




Flashing	**Power cons. @12V**	
FlashLED (10%)	**1.2 Ah**	/day
TriFlash (5%+5%+5%)	**1.8 Ah**	/day
Single (50%)	**6 Ah**	/day
Steady	**12 Ah**	/day

Some examples of applications:





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BASIC 309

Basic 309 is the flat version of the Basic 308.

The high luminous efficiency, the uniformity and the wide visual angles, make this product the best in its category.



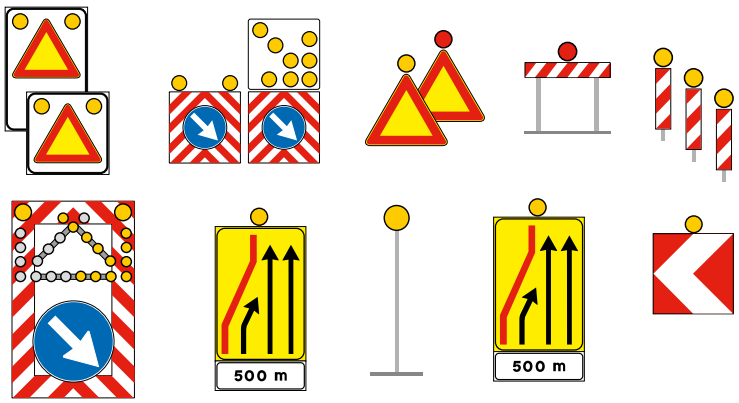
Compliance	**EN12352 L9M**
Input voltage	**12 VDC - 12/24 VDC**
Colour	● ●
Max. power consumption	**17.5 W**
Dimensions	**Ø 333 x 64 mm**

Flashing	**Power cons. @12V**	
FlashLED (10%)	**3.0 Ah**	/day
TriFlash (5%+5%+5%)	**4.5 Ah**	/day
Single (50%)	**15 Ah**	/day
Steady	**30 Ah**	/day



Side hole version

Some examples of applications:



Adapter for Ø40 mm panels



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

LED WARNING LIGHTS



D-STAR V2

LED WARNING LIGHT MONO-BATTERY.

Unbreakable lens.
Works with 1 or 2 **6V 4R25** batteries.
Easy to replace battery.
Anti Theft metal bracket included.
Other colours on request.



Operating mode		Standard				FlashLED	Super FlashLED
		Flashing		Steady			
Approved EN 12352		**L6**	**L7**	**L6**	**L7**	**L8G**	**L8L**
Colour		🟡🟡	🟡	🔴🔴	🔴	🟡 / 🟡🟡	🟡
Operating time [hours]	7Ah	**800**	**1000**	**250**	**500**	**400 / 200**	**300**
	25Ah	**2800**	**3300**	**900**	**1800**	**1500 / 750**	**1100**
	50Ah	**4500**	**6600**	**1800**	**3600**	**3000 / 1500**	**2200**
Dimensions		**195 x 380 x 95 mm**					

Multifunction Key



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D-SOLO

LED WARNING LIGHTS.

Unbreakable lens.
Works with 1 **6V 4R25** Battery.
Metal bracket, rechargeable version and other colours on request.



Operating mode		Flashing		Steady	
Approved EN 12352		**L6**	**L7**	**L6**	**L7**
Colour		🟡🟡	🟡	🔴🔴	🔴
Operating time [hours]	7 Ah	**400**	**500**	**130**	**250**
	25 Ah	**1400**	**1700**	**450**	**900**
	50 Ah	**2300**	**3300**	**900**	**1800**
Dimensions		**195 x 360 x 105 mm**			

Multifunction Key



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

MINI **D-LITE**

LED WARNING LIGHT.

Model not in compliance
with **EN 12352**.
Metal Bracket on request.



Operating mode		Steady or flashing	
Certification		**CE** (Non compliance EN 12352)	
Colour		🟡🟡	🔴🔴
Operating time [hours]	7 Ah	**700**	**260**
Dimensions		**185 x 330 x 90 mm**	

MONO **D-LITE**

SINGLE-BATTERY LED WARNING LIGHT.

Model not in compliance with **EN 12352**.
Metal bracket included.



Operating mode		Steady or flashing	
Certification		**CE** (Non compliance EN 12352)	
Colour		🟡🟡	🔴🔴
Operating time [hours]	7 Ah	**350**	**130**
Dimensions		**180 x 330 x 105 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D1-SOLAR HYBRID

From our twenty-year experience on photovoltaic technologies, it comes the D1-Solar Hybrid, an innovative roadworks lamp capable of combining performance and environmental responsibility.





The best from both power supplies.
D1-Solar Hybrid is equipped with a double power supply: **photovoltaic (with lithium battery) and with 4R25 battery.**
The system automatically alternates between one or the other to offer the best in terms of power, efficiency and autonomy.
Always ready for use: the possibility of using the traditional battery also allows you to use the lamp immediately without waiting for solar recharge.

Self-sufficient in the twilight version:
the D1-Solar Hybrid is completely autonomous and can operate for up to 5 years without the need to replace the internal lithium battery.

Greater autonomy: in the more powerful radio version, which work 24 hours, the photovoltaic power supply allows, in optimal solar conditions, to triple the normal autonomy of the non-rechargeable battery.

Operating mode	Standard				FlashLED
	Flashing		Fixed		
Approved EN 12352	**L6**	**L7**	**L6**	**L7**	**L8L**
Colour	●●	●	●●	●	●
Fixing mode	• **Pole for 60 mm** • **Pole for 48 mm** • **Panel white/red** • **Bracket**				
Dimensions	**250 x 335 x 100 mm**				









Warning Panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double sided film EG class 1
- With double sided film HI class 2



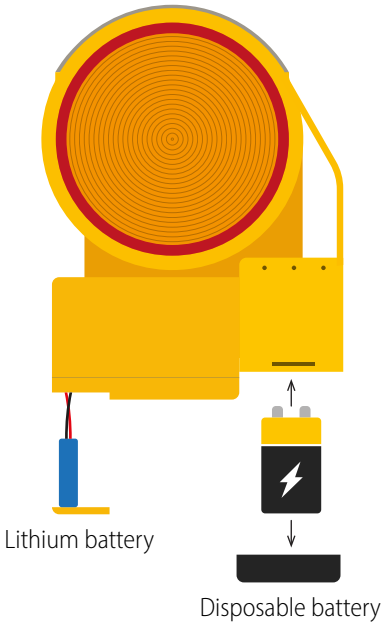
Base with recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D1-SOLAR HYBRID - FOCUS



QUICK START MODE

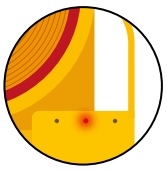
D1-Solar Hybrid L6 - L7

This is how the D1 Solar Hybrid L6 and L7 lamps work **with twilight function** (night only): yellow, red, single-sided and double-sided.

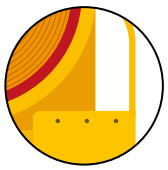
The lamp only needs a disposable battery to start if the built-in lithium battery is flat, after that it is completely autonomous and does not require further battery changes. **It does not need a disposable battery to operate**, so we recommend the use of **flow amperage disposable batteries.**

D1-Solar Hybrid ✓

D1-Solar Hybrid Radio sequence ✗

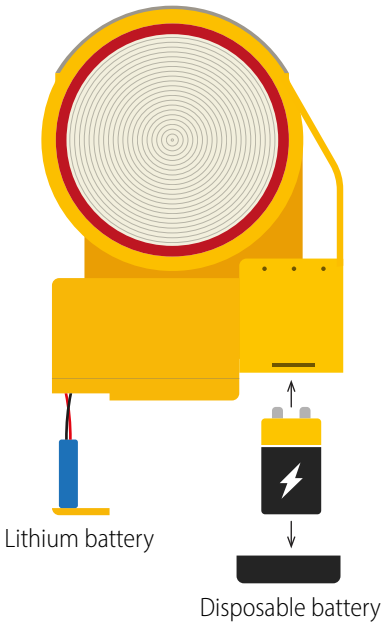


LED ON
Disposable battery in operation



LED OFF
Lithium battery in operation





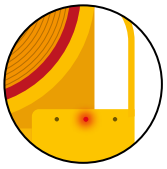
COMBO MODE

D1-Solar Hybrid FlashLED L8G - Radio L8L

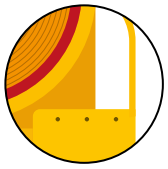
This is how the D1 Solar Hybrid L8G and Radio L8L lamps operate, **with day and night function** (single-sided only).
The lamp **works only if a disposable battery is also inserted**, the solar panel and the lithium battery are not sufficient to guarantee the functioning of the lamp but they help increasing the autonomy of the disposable battery, therefore the use of **disposable batteries with high amperage** is recommended.

D1-Solar Hybrid ✓

D1-Solar Hybrid Radio sequence ✓



LED ON
Disposable battery in operation



LED OFF
Lithium battery in operation



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

HIGH POWER LED WARNING LIGHTS



D2-BASIC 210

ADVANCE WARNING LED LIGHTS.

Single flash.
Wide range of settings.
Possibility of twilight function.
Works with 2 batteries 6V 4R25.



Certification **EN 12352**		**L8H - L8M**
Colour		●
Operating time [hours]	7Ah	**200**
	50Ah	**1000**
Dimensions		**210 x 370 x 113 mm**

D4C-BASIC 102

ADVANCE WARNING LED LIGHTS.

Single flash.
Wide range of settings.
Possibility of twilight function.
Works with 4 batteries 6V 4R25.



Certification **EN 12352**		**L2H**
Colour		●
Operating time [hours]	4 batt. 7Ah	**570**
	4 batt. 50Ah	**2850**
	1 batt. 550Ah	**15000**
LED light dimensions		**Ø 139 x 19 m**
Box dimensions		**153 x 163 x 227 mm**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

D4C-BASIC 210

ADVANCE WARNING LED LIGHTS.

Single flash.
Wide range of settings.
Possibility of twilight function.
Works with 4 batteries 6V 4R25.



Certification **EN 12352**		**L8H - L8M**
Colour		●
Operating time [hours]	4 batt. 7Ah	**400**
	4 batt. 50Ah	**2000**
	1 batt. 550Ah	**11500** (480 days)
LED light dimensions		**Ø 210 x 85 mm**
Box dimensions		**153 x 163 x 227 mm**

D4C-BASIC 309

ADVANCE WARNING LED LIGHTS.

Single flash.
Wide range of settings.
Possibility of twilight function.
Works with 4 batteries 6V 4R25.



Certification **EN 12352**		**L9M**
Colour		●
Operating time [hours]	4 batt. 7Ah	**100**
	4 batt. 50Ah	**500**
	1 batt. 550Ah	**4400** (180 days)
LED light dimensions		**Ø 333 x 110 mm**
Box dimensions		**153 x 163 x 227 mm**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

LED SEQUENTIAL LIGHT SYSTEMS



BATTERY RADIO SEQUENCE

D1-RADIO

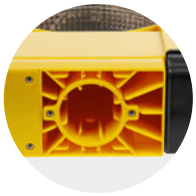
LED SEQUENCE LIGHT SYSTEM WITH WIRELESS RADIO TECHNOLOGY.

Min. Distance system light 1 m, max 40 m. **1 battery.**
No lights limit.
Available functions: twilight switch, night guide light.





Certification **EN 12352**	**L8L**	
Colour	●	
Power supply	**1 battery 6V 4R25**	
Operating time	7 Ah: **100 hours**	50 Ah: **720 hours**
Fixing	• **Pole for 60 mm** • **Pole for 48 mm** • **Panel white/red** • **Bracket**	
Dimensions	**250 x 335 x 100 mm**	











Warning Panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double sided film EG class 1
- With double sided film HI class 2

Base with recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BATTERY RADIO SEQUENCE

D2-BASIC 210

LED SEQUENCE LIGHT SYSTEM WITH WIRELESS RADIO TECHNOLOGY.

Min. Distance system light 1 m, max 40 m. **2 battery.**
No lights limit.
Available functions: twilight switch, night guide light.



Certification **EN 12352**	**L8H - L8M**	
Colour	●	
Input voltage	**12 V**	
Operating time	7 Ah: **140 hours**	50 Ah: **1000 hours**
Fixing	**Pole 48 o 60 mm**	
Dimensions	**210 x 370 x 113 mm**	



Signalling panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double side EG class 1 film
- With double side HI class 2 film



Base in recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BATTERY RADIO SEQUENCE

D4C-BASIC 210

LED SEQUENCE LIGHT SYSTEM WITH WIRELESS RADIO TECHNOLOGY.

Min. Distance system light 1 m, max 40 m. **4 battery.**
No lights limit.
Available functions: twilight switch, night guide light.



Certification **EN 12352**	**L8H - L8M**	
Colour	●	
Input voltage	**12 V**	
Operating time	7 Ah: **280 hours**	50 Ah: **2000 hours**
Fixing	**Panel adapter, Pole 48 o 60 mm**	

This model is highly recommended for road works that require longer operating time and more powerful LED lights.



Signalling panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double side EG class 1 film
- With double side HI class 2 film



Base in recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

HYBRID RADIO SEQUENCE

D1-SOLAR HYBRID

LED RADIO SEQUENCE WITH SOLAR TECHNOLOGY.

Thanks to the contribution of solar panels, in optimal solar conditions, the autonomy of the radio lamp can triple the normal autonomy of the non-rechargeable battery.











Approved EN 12352	**L8L**
Colour	●
Litihum battery	**3,2 V - 4,5 Ah**
Fixing mode	• **Pole for 60 mm** • **Pole for 48 mm** • **Panel white/red** • **Bracket**
Dimensions	**250 x 335 x 100 mm**

Warning Panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double sided film EG class 1
- With double sided film HI class 2



Base with recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

CABLE SEQUENCE

BASIC 210

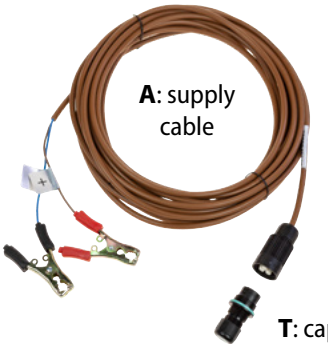
LED SEQUENCE LIGHT SYSTEM SELF-CONFIGURING.

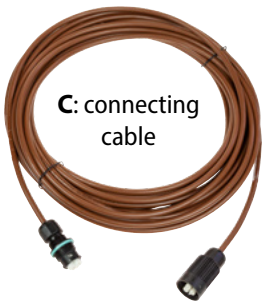
All the lights are the same model.
Electronic control integrated into the lights.

Standard day and night operation. on request only night.

12V standard 230/12V input on request.

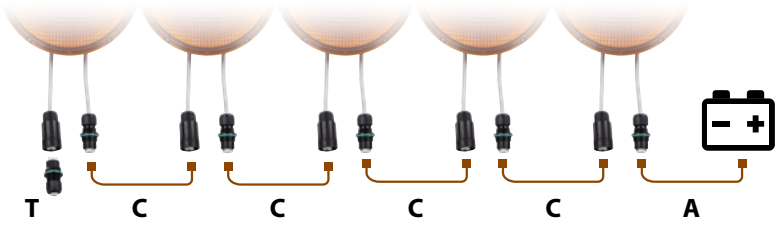


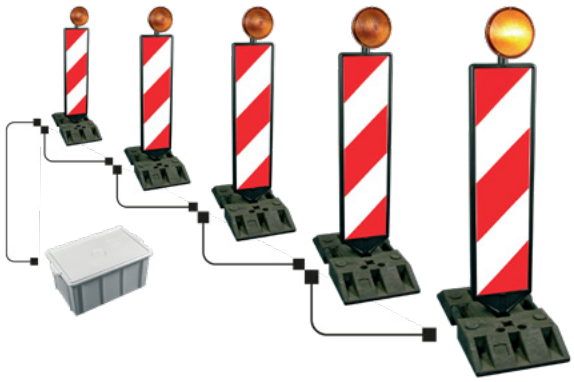




T: cap

Certification **EN 12352**	**Basic 210: L8H - L8M**
Sequence type	**Self-configuring**
Colour	●
Input voltage	**12 V**
Connection cables	**6 - 13 - 19 - 25 - 39 m**
Power supply cable	**10 m**
Fixing	**Panel adapter, bracket for 48 o 60 mm pole**





Signalling panel

Dimensions	**290 x 1330 x 50 mm**

- Without film
- With double side EG class 1 film
- With double side HI class 2 film



Battery case

Dimensions	**680 x 410 x 320 mm**



Base in recycled rubber

Dimensions	**380 x 750 x 115 mm**
Weight	**27 kg ±15%**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE LED TRAFFIC LIGHTS



SLX – SEMAFORI LED EXCHANGEABLE SYSTEM

SLX is the modular traffic light ecosystem designed to adapt to every work zone requirement. The SLX concept is based on **exchangeable and configurable components** that can be combined to create standard or customized solutions.

The system includes different Traffic light cart (SL16, SL19, SL23), multiple control units (DUAL, MPB, Manual, Adapta) and a wide range of accessories such as countdown displays and additional warning beacons.

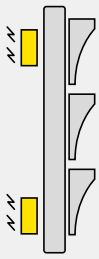
Each element can be **mixed and matched**, allowing customers to build the most suitable configuration for their specific application.

With SLX, flexibility becomes a standard.
The system is designed to grow over time, enabling future upgrades and expansions without replacing the entire system.

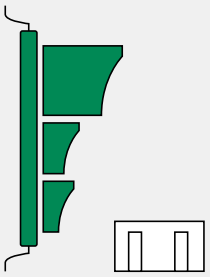
TRAFFIC LIGHTS, BUILT YOUR WAY.

TRAFFIC LIGHTS

LED TRAFFIC LIGHTS

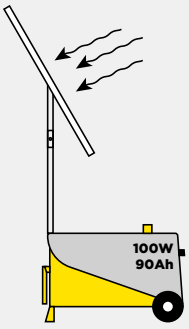


MAGNETIC TRAFFIC LIGHT BASIC 201

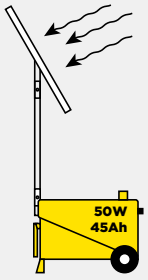


TRAFFIC LIGHT POLE MOUNTING WITH BRACKET

POWER SUPPLIES

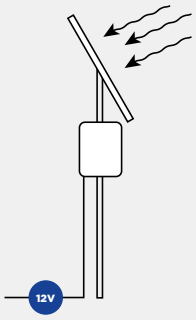


KIT 100 SL23



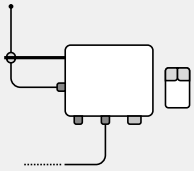
KIT 50 SL16

POWER SUPPLIES



PHOTOVOLTAIC KIT

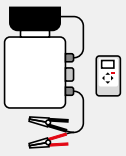
CONTROL UNITS



BOX 200 MANUAL

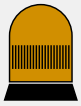


DUAL CONTROL UNIT



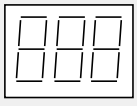
MPB CONTROL UNIT

OPTIONAL



MANUAL'S FLASHING

OPTIONAL



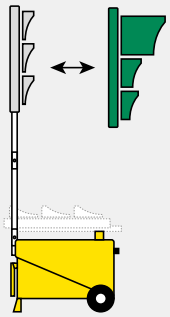
COUNTDOWN NUMERA

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

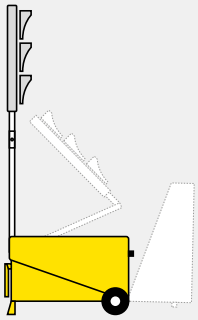
+39 030 2594120
info@d-power.com
D-POWER.COM

MOBILE LED TRAFFIC LIGHTS

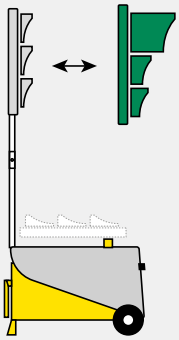
LED TRAFFIC LIGHTS



SL 16



SL 19

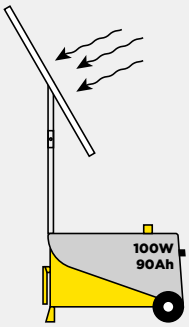


SL 23

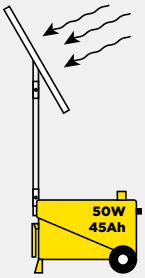
POWER SUPPLIES



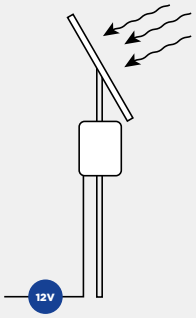
12V BATTERY



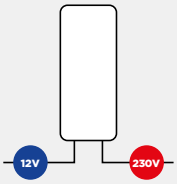
KIT 100 SL23



KIT 50 SL16

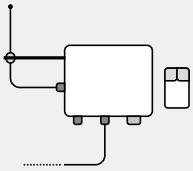


PHOTOVOLTAIC KIT



KIT 230

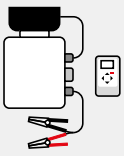
CONTROL UNITS



BOX 200 MANUAL

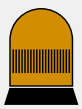


DUAL CONTROL UNIT



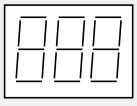
MPB CONTROL UNIT

OPTIONAL



MANUAL'S FLASHING

OPTIONAL



COUNTDOWN NUMERA

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

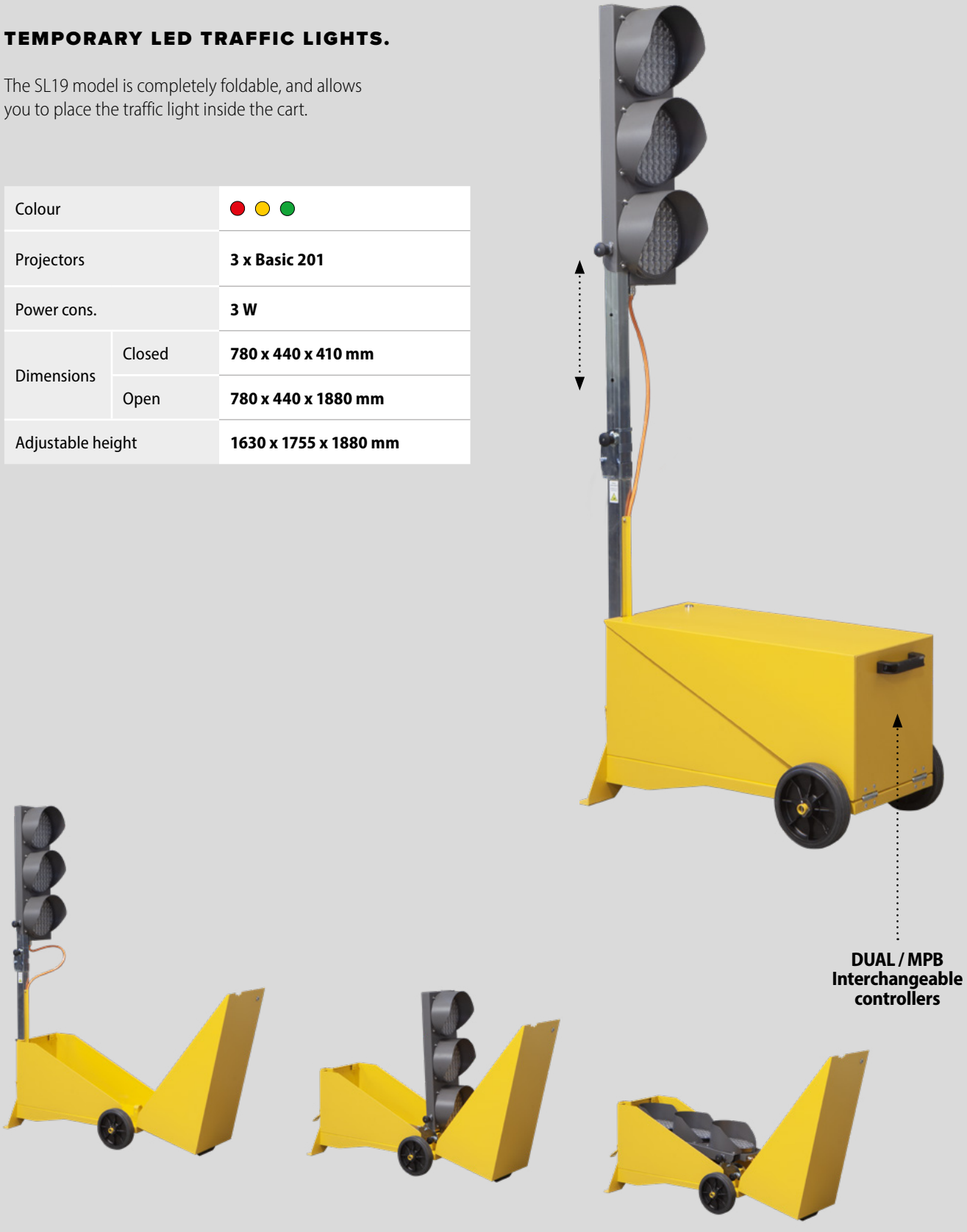
+39 030 2594120
info@d-power.com
D-POWER.COM

SL19

TEMPORARY LED TRAFFIC LIGHTS.

The SL19 model is completely foldable, and allows you to place the traffic light inside the cart.

Colour		🔴 🟡 🟢
Projectors		**3 x Basic 201**
Power cons.		**3 W**
Dimensions	Closed	**780 x 440 x 410 mm**
	Open	**780 x 440 x 1880 mm**
Adjustable height		**1630 x 1755 x 1880 mm**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

SL16

TEMPORARY LED TRAFFIC LIGHTS.

This feature makes the product more compact and protects the traffic light during transportation.

Colour		🔴 🟡 🟢	
Projectors		2 x 200 mm 1 x 300 mm	3 x Basic 201
Power cons.		3 W	3 W
Dimensions	Closed	885 x 440 x 980 mm 787 x 440 x 650 mm	
	Open	787 x 455 x 2200 mm 787 x 440 x 2040 mm	
Adjustable height		1950 x 2075 x 2200 mm 1790 x 1910 x 2040 mm	



Interchangeable optics



Semaforica





DUAL / MPB
Interchangeable controllers







DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

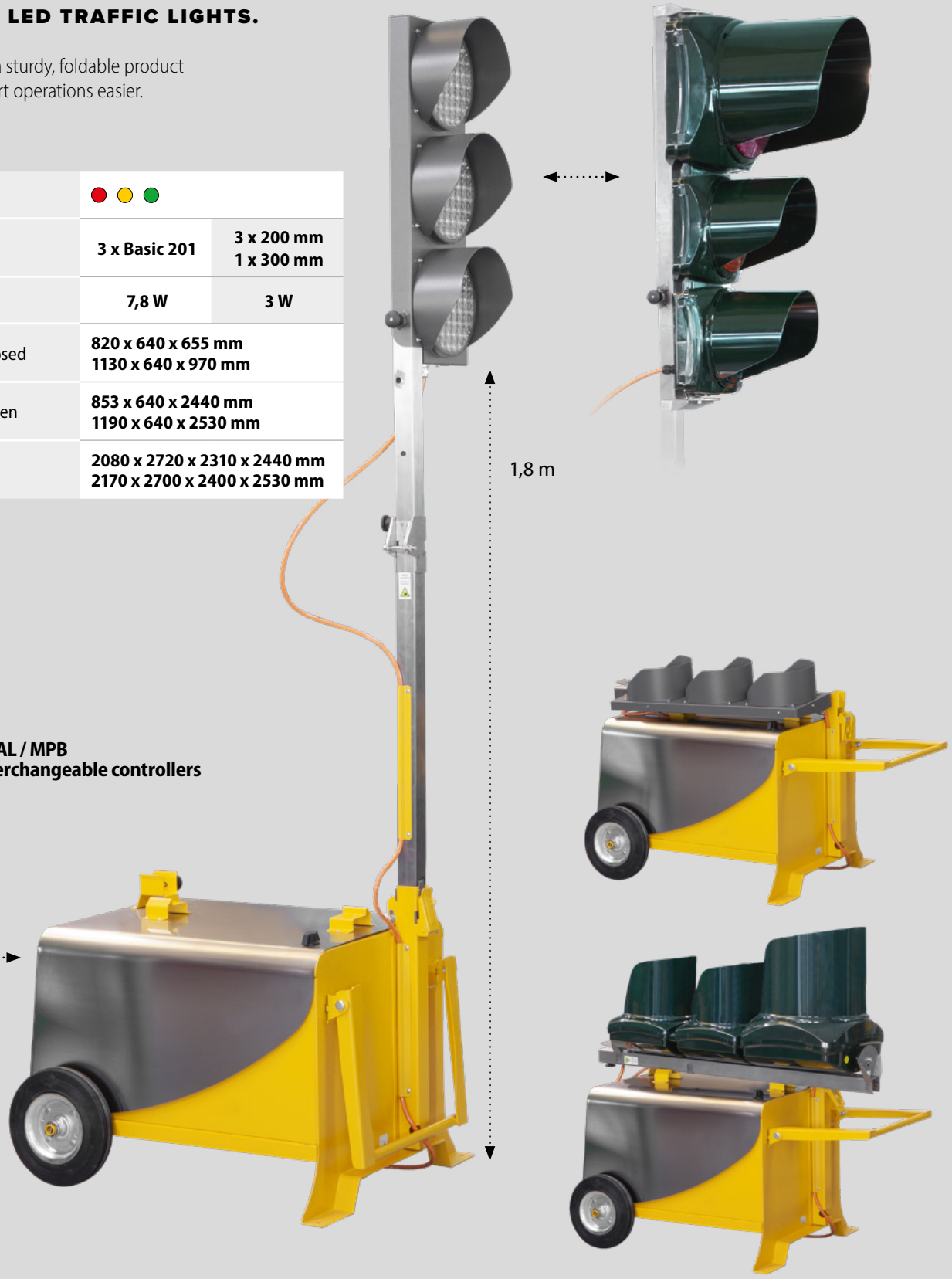
MOBILE LED TRAFFIC LIGHTS

SL23

TEMPORARY LED TRAFFIC LIGHTS.

The SL23 model is a sturdy, foldable product that makes transport operations easier.

Colour		🔴 🟡 🟢	
Projectors		**3 x Basic 201**	**3 x 200 mm 1 x 300 mm**
Power cons.		**7,8 W**	**3 W**
Dimensions	Closed	**820 x 640 x 655 mm 1130 x 640 x 970 mm**	
	Open	**853 x 640 x 2440 mm 1190 x 640 x 2530 mm**	
Adjustable height		**2080 x 2720 x 2310 x 2440 mm 2170 x 2700 x 2400 x 2530 mm**	



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE LED TRAFFIC LIGHTS

DUAL

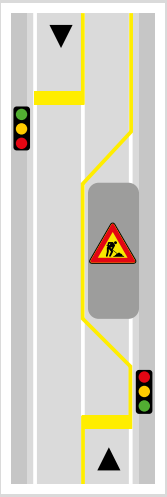
ELECTRONIC CONTROLLER.

Control unit equipped with quartz synchronization, designed for the management of traffic lights in **alternating one-way** traffic for **temporary applications**. All DUAL control units are identical, and the operational role as primary or secondary unit (L1 or L2) can be configured directly by the user. This architecture allows, in the event of a malfunction, the replacement of **only the affected unit** without intervening on the entire pair, thereby reducing operating costs.

The control unit supports three operating modes: **automatic, flashing, and standby**; the latter allows the traffic light to be switched off without losing synchronization.

It can be installed inside the cart battery compartment, ensuring ease of use.





MPB

ELECTRONIC CONTROLLER.

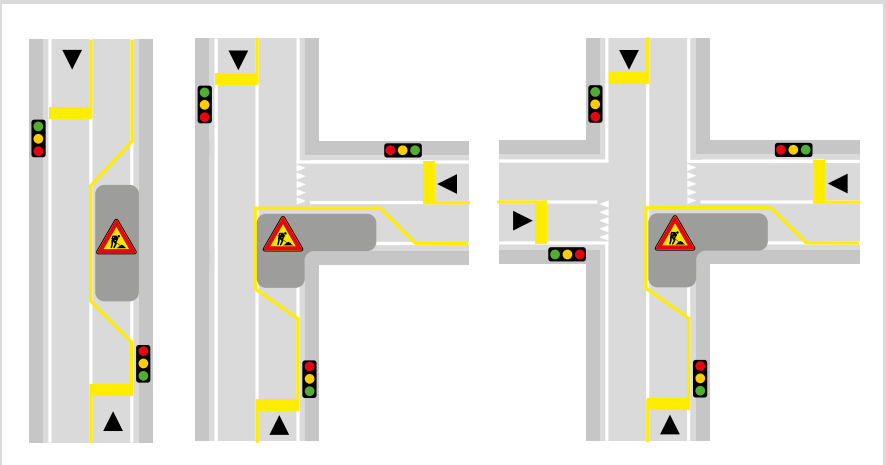
Control unit equipped with quartz synchronization, designed for the management of traffic lights in **alternating one-way** traffic, **T-junctions**, and four-way intersections, suitable for both **temporary applications** and **semi-permanent installations**.

The MPB integrates a GPS synchronization system, ensuring continuous timing accuracy and stability. As a result, no periodic time realignment is required, even for long-term installations.

The control unit offers five operating modes: **automatic, flashing, always green, always red, and standby**; the latter allows the traffic light to be switched off without losing synchronization.

It is designed to manage up to **4 groups (phases) of 4 traffic lights** via remote control and can be installed inside the cart battery compartment, ensuring ease of use.





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

MANUAL

ELECTRONIC CONTROLLER.

Control unit designed for the manual operation of traffic lights, compatible with all traffic light trailers of the MTL traffic light carts.

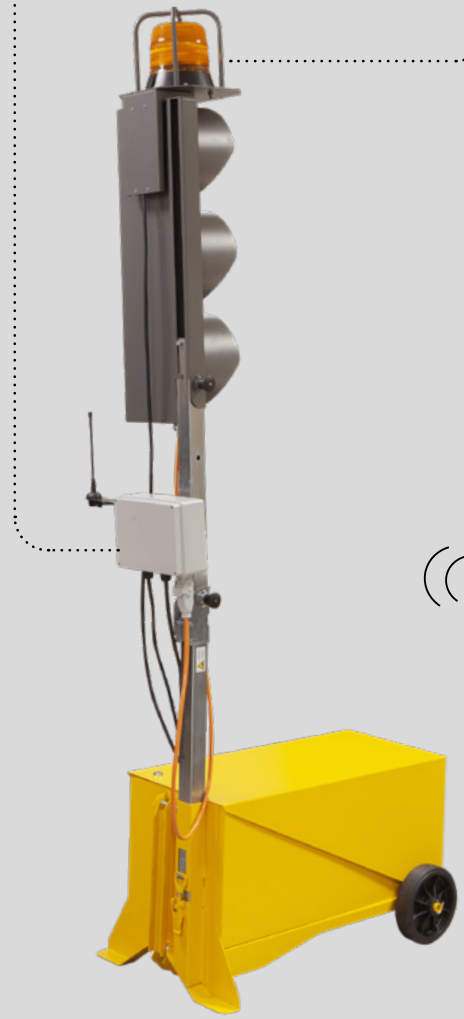
It allows manual activation of the **red** and **green** phases, ensuring full control of traffic regulation in non-standard or temporary situations.

The LED beacon placed on top of the traffic light is visible at 360° and it's connected to the red phase as a feedback for the operator using it.

It is ideal for all situations where vehicle traffic management is not regular and must therefore be manually adjusted.









Wireless remote control



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

ADAPTA

ELECTRONIC CONTROLLER.

Intelligent control unit designed for the dynamic management of one-way traffic lights, both in **temporary and permanent applications**.

Using **radar sensors**, Adapta detects the presence of vehicles in real time, automatically adjusting traffic light timing to favor the direction with the most traffic and reduce queues and waiting times.

The system is designed to ensure **fluidity, safety, and efficiency**, even in variable traffic conditions, without the need for manual intervention.

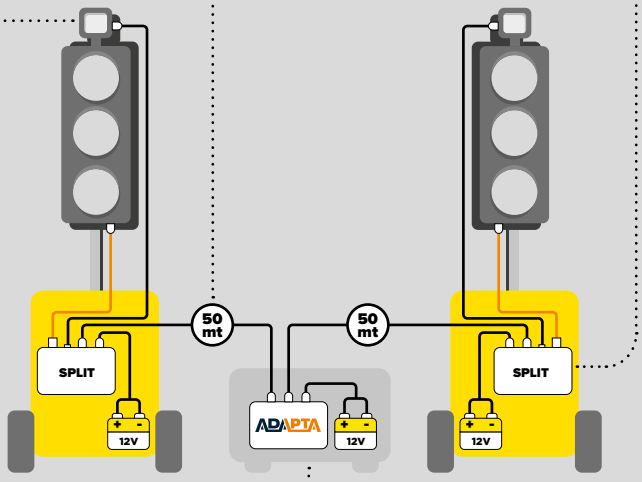
Adapta-T-Wired was designed for temporary applications, but the Adapta-P-Wired version is also available for permanent applications. A wireless version will soon be available.



50 mt extension



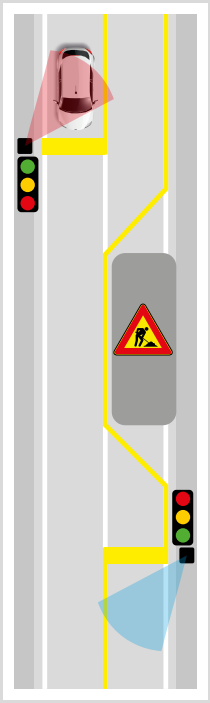
Split box





Radar with magnetig fixing







Adapta controller

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

NUMERA

Numera is the 3-color, 3-digit countdown that can be combined with our DUAL and MPB control units and all MTL traffic light carts.

It features automatic brightness adjustment for optimal adaptation to environmental conditions.

The three digits allow for long traffic light phases for construction sites that extend over long stretches of road.

For ease of reading, times can be displayed in both minutes (9:59) and seconds (999).







Colour	🔴 🟡 🟢
Digit height max.	**175 mm**
Power cons.	**2÷4 W**
Dimensions	**385 x 356 x 83.5 mm**
Fixing	**Magnetic**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE SIGNALER



INDICATOR

FLAT 3 SL16

RADAR BASED, it is the ideal active signal to encourage safe driving in road working zones, motorway intersections, etc.

All the options can be deactivated allowing to use the device in standard mode (only amber).





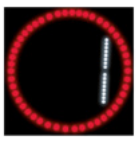
Colour		● ● ● ○	
Digit height max.		**30 cm**	
Functions		**Smile + speed limit**	
Operating time 90 Ah battery		**Up to 35 days** (consumption depends on traffic volume)	
Software		**Included** / App Android	
Connection		**Bluetooth** (100m outdooor) **RS232**	Optional: e-mail-GSM-GPRS-GPS
Vehicle detection		**Bidirectional** (only statistic)	
Display dimensions		**640 x 410 x 75 mm**	
Dimensions	Closed	**780 x 440 x 601 mm**	
	Open	**780 x 440 x 1850 mm**	

Some examples of views:

Double colour display

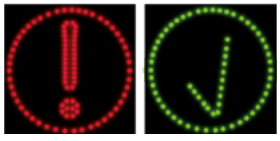



Speed limit function


ALTERNATING
FROM

TO


Smile function


ALTERNATING

OR


DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE SIGNALER

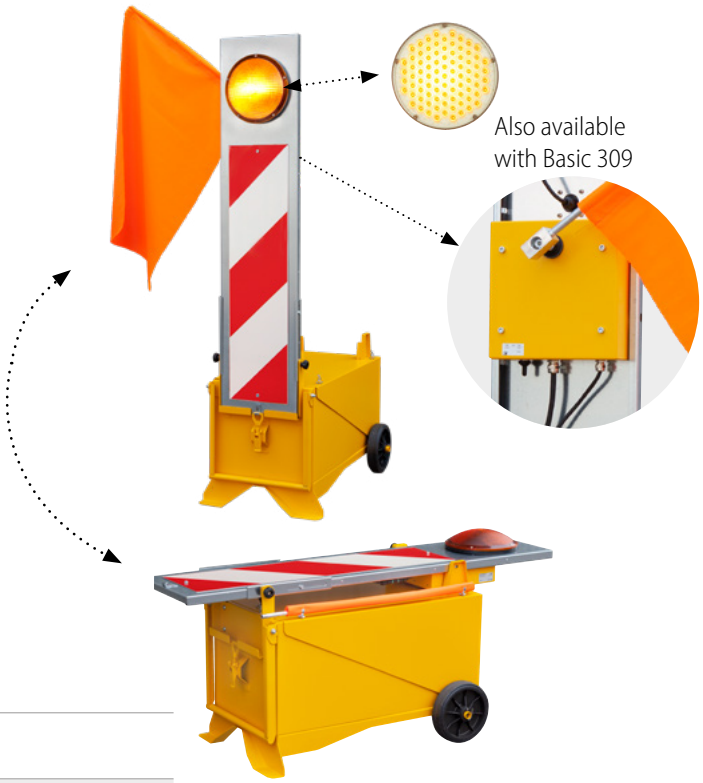
WAVE

FOLDABLE ELECTRONIC FLAG WEAVER,

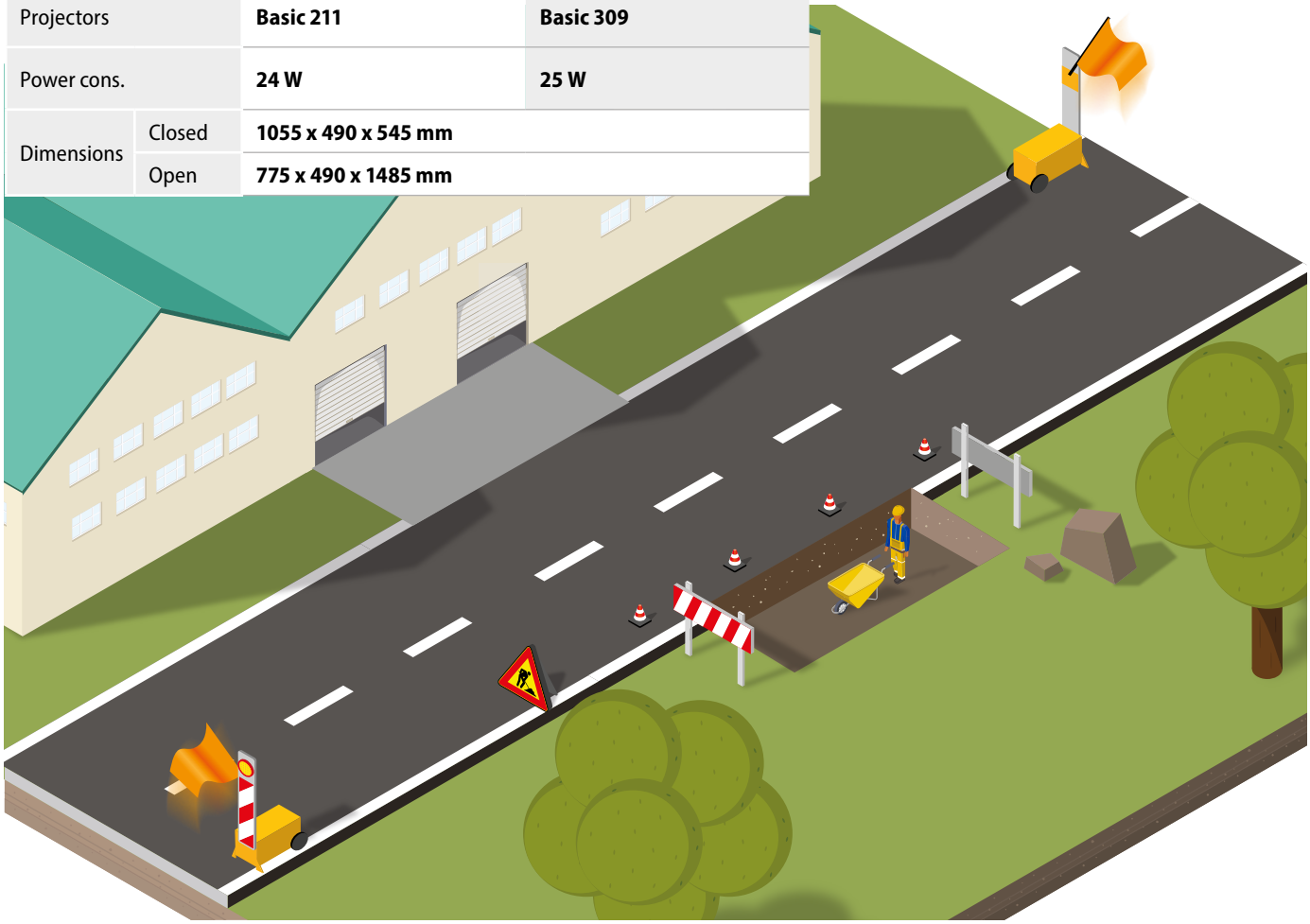
The Wave electronic flag- weaver is equipped with a foldable mobile trolley complete with a sign designed to assume different configurations (deviation to the right or to the left).

Wave works with a 12V commercial type automotive battery positioned inside the battery compartment.

Wave's compact structure makes handling, transport and installation operations easy on the construction sites.



Colour			
Projectors		**Basic 211**	**Basic 309**
Power cons.		**24 W**	**25 W**
Dimensions	Closed	**1055 x 490 x 545 mm**	
	Open	**775 x 490 x 1485 mm**	



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE POWER SUPPLY KITS



KIT50 SL16

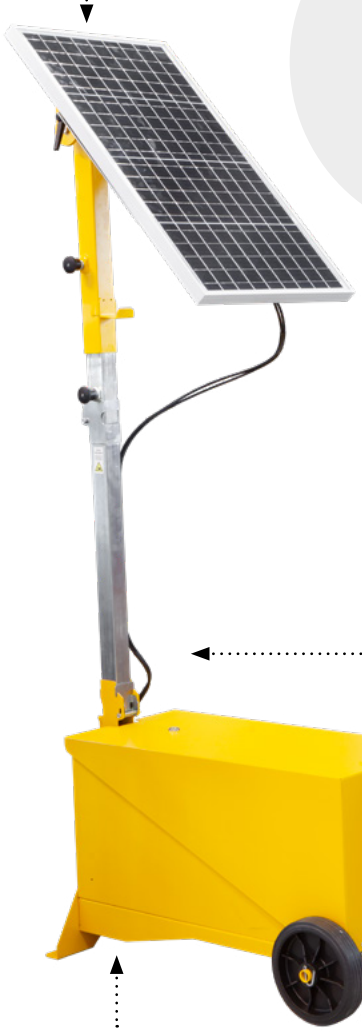
TEMPORARY PHOTOVOLTAIC KIT

Foldable12V photovoltaic kit suitable for powering devices near road construction sites and other mobile applications.

Photovoltaic panel		**50 W**
Battery (included)		**45 Ah**
Dimensions	Closed	**787 x 455 x 668 mm**
	Open	**787 x 455 x 1727 mm**









360° rotation system for the photovoltaic module.

10m extension cable supplied to position the kit away from the device, for better exposure or for safety reasons.



It is possible to combine a dpod with the Kit50 SL16, in this way an operator can monitor the battery remotely for critical applications.



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

KIT100 SL23

TEMPORARY PHOTOVOLTAIC KIT

Foldable12V photovoltaic kit suitable for powering devices near road construction sites and other mobile applications.

Photovoltaic panel		**100 W**
Battery (included)		**90 Ah**
Dimensions	Closed	**908 x 690 x 715 mm**
	Open	**770 x 690 x 1925 mm**







360° rotation system for the photovoltaic module.

10 m extension cable supplied to position the kit away from the device, for better exposure or for safety reasons.



It is possible to combine a dpod with the Kit100 SL23, in this way an operator can monitor the battery remotely for critical applications.



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

DPOD

IOT GPS TRACKER WITH AN ALL-INCLUSIVE SERVICE FOR MONITORING MOBILE DEVICES

DPOD is a device that allows remote monitoring of all battery powered mobile products.

It provides constantly updated information to verify if they are working, to allow to organize intervention in case of need and to help plan battery changes.

DPOD can be reset at the end of every use to be applied on a different product.

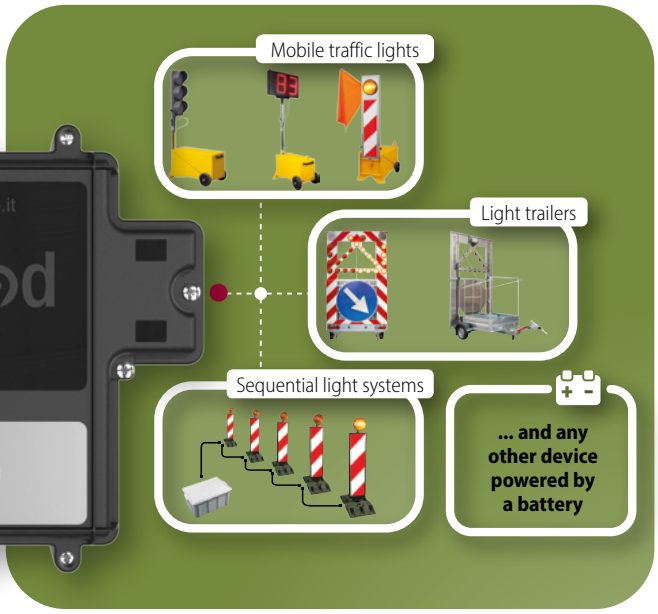


FUNCTIONS

- **Products geolocation**
- **Battery status monitoring**
- **Temperature measurement**
- **Orientation status**
- **Possibility to attach technical info and pictures**
- **Event log**



FIELDS OF APPLICATION



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

MOBILE POWER SUPPLY KITS

D4 BOX



Dimensions	**150 x 165 x 235 mm**

RECHARGEABLE D4 BOX



Box dimensions	**153 x 163 x 227 mm**
Battery charger dimensions	**155 x 72 x 46 mm**

D8-BOX CHARGER

CHARGER CASE

with rechargeable 6V 4R25 lithium batteries.



Battery type	**Rechargeable (with type-C adapter) 8000mA 6.41V**
Weight	**Battery: 418 g Kit case: 1884 g**
Dimensions	**Battery: 65 x 65 x 100 mm Kit case: 410 x 320 x 205 mm**

4R 25 6V BATTERIES



Model	Packing weight	Packing
7 Ah	**11,5 Kg**	**24 pz.**
50 Ah	**14,5 Kg**	**15 pz.**
5 Ah rechargeable	**0,8 kg**	**1 pz.**

AIR-ALKALINE BATTERIES



Typ. voltage	**12 Vdc**
Typ. capacity	**550 Ah**
Weight	**19.8 Kg**
Dimensions	**400 x 170 x 300 mm**

12 V - DEEP CYCLE AGM RECHARGEABLE BATTERIES



7 Ah	**2.3 kg**	**18 Ah**	**5.7 kg**
9 Ah	**2.5 kg**	**45 Ah**	**15 kg**
12 Ah	**4 kg**	**90 Ah**	**30 kg**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

ACCESSORIES



BATTERY TESTER



LED charging indicators	● ● ●
Material	**Plastica**
Weight	**50 g**
Dimensions	**74 x 74 x 42 mm**

LAMP SUPPORT FOR ROAD SIGN STAND

Suitable for two-battery LED warning lights and compatible, thanks to the regulation, with different signals and types of sign stands.



ANTI THEFT METAL BRACKETS



Pole dimension	**Ø48 mm (max. Ø50)**



Pole dimension	**Ø60 mm (max. Ø80)**

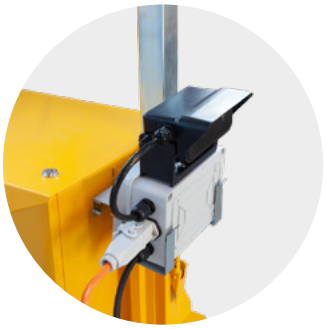


Pole dimension	**Ø90 mm**

MPB CONTROL UNIT BRACKET

This accessory allows the MPB control unit to be installed on the outside of the traffic light cart.

This allows the control unit to connect to the GPS signal and ensure the set times are maintained without the need for periodic resynchronization.



This accessory also allows the MPB control unit to be installed on a pole using our universal pole brackets, also used for backlit signs (60mm, 90mm, and Band-It poles) for "semi-permanent" installations.



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FOR ROAD WORK

LIGHT TRAILERS AND DIRECTIONAL ARROWS



ISS 90X90

DIRECTIONAL LED ARROWS.

VVersions with **8** or **13 lights**.

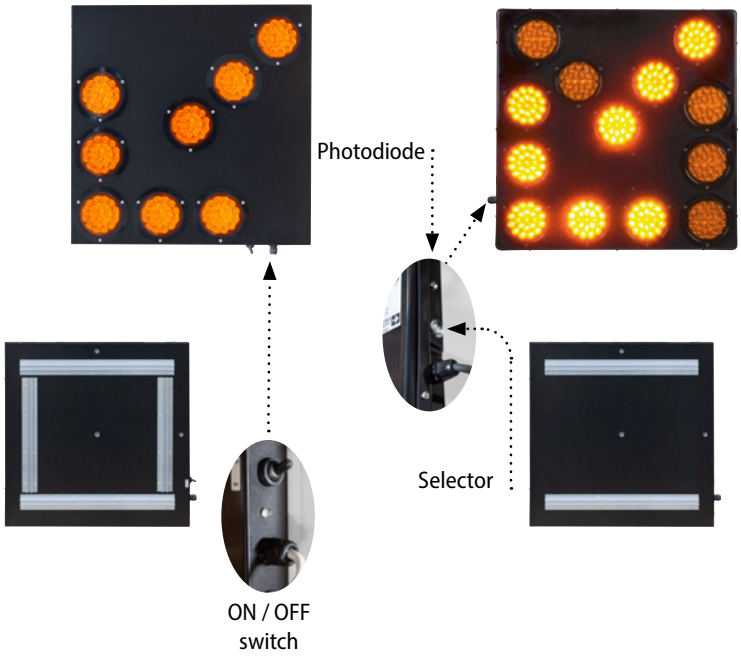
Optional remote control.





Certification	Basic 211 **EN12352 L8H**	
Colour	●	
Power supply	**12/24 VDC**	
Models	13 lights	8 lights
Power cons.	**30 Ah**	**30 Ah**
Dimensions	**900 x 900 x 153 mm**	

ISS 60X60



Certification	Basic 102 **EN12352 L2H**	
Colour	●	
Power supply	**12 VDC** **24 VDC** on request	
Models	13 lights	8 lights
Power cons.	**28 Ah**	**28 Ah**
Dimensions	**620 x 620 x 79 mm**	

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

ISS 90X90 E

DIRECTIONAL LED ARROWS WITH ELECTRICAL MOTORIZATION.

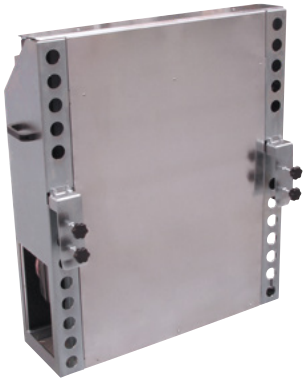
13 lights Basic 211.

Electric scrolling.
With fig.398.

Directional motorized arrow.



With external
control unit included





Stop button



Certification		Basic 211 **EN12352 L8H**
Colour		
Power supply		**12 VDC**
Models		13 lights
Power cons.		**30 Ah/day**
Dimensions	Closed	**950 x 1210 x 449 mm**
	Open	**950 x 1910 x 440 mm**



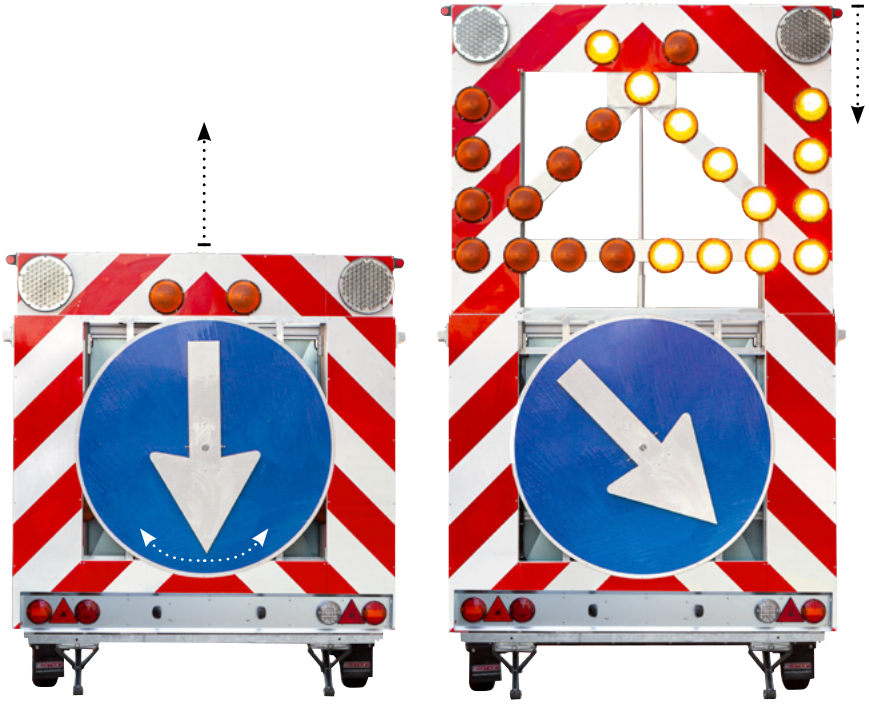
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FIG. **400** - FIG. **401**

MOTORIZED LIGHT TRAILER COMPLETELY AUTOMATIC.

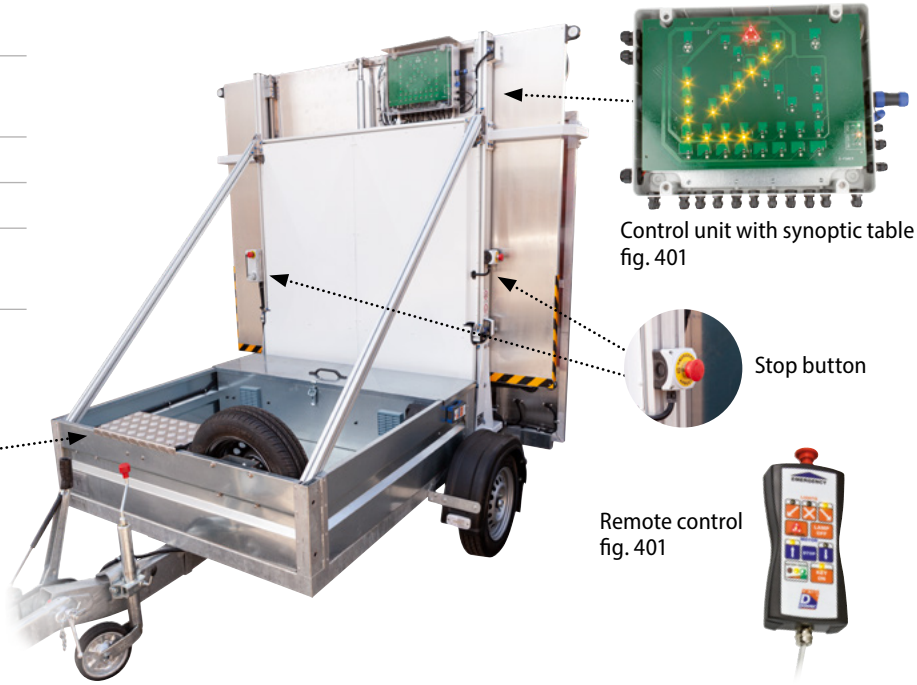
- Fig. 400 o fig.401 with vertical lifting
- Galvanized steel frame
- GVW max. 750 kg
- Aluminum signalling frame
- Closed case to house the batteries
- Adjustable shaft in height with repulsion
- Aluminium panels with Reflective Film Cl II
- Wireless remote control on request
- Fig.401:
  23 - Basic 211 LED
  2 - Basic 304 LED
- Fig.400:
  5 - Basic 304 LED.



Signage trolley

- load-bearing frame
- MCPC max. kg 750
- Battery box
- Variable height drawbar.

Certification	Basic 211 **EN12352 L8H** Basic 304 **EN12352 L9H**
Colour	●
Power supply	**12/24 VDC**
Power cons.	Fig 400: **75 Ah/day** Fig. 401: **100 Ah/day**



Control unit with synoptic table fig. 401

Stop button

Remote control fig. 401

Watch the video:



Battery

Fig. 401



left arrow | right arrow | cross | triangle | double arrow

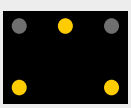
Optional bar



right sequence | left sequence | barrier | central seq.

Fig. 400





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FIG. **400** - FIG. **401**

MOTORIZED STRUCTURE COMPLETELY AUTOMATIC.

- Fig. 400 o fig.401 with vertical lifting
- Galvanized steel frame
- Aluminum signalling frame
- Aluminium panels with Reflective Film Cl II
- Wireless remote control on request
- Fig. 401:
  23 - Basic 211 LED
  2 - Basic 304 LED
- Fig. 400:
  5 - Basic 304 LED.



Certification	Basic 211 **EN12352 L8H** Basic 304 **EN12352 L9H**
Colour	●
Power supply	**12/24 VDC**
Power cons.	Fig 400: **75 Ah/day** Fig. 401: **100 Ah/day**

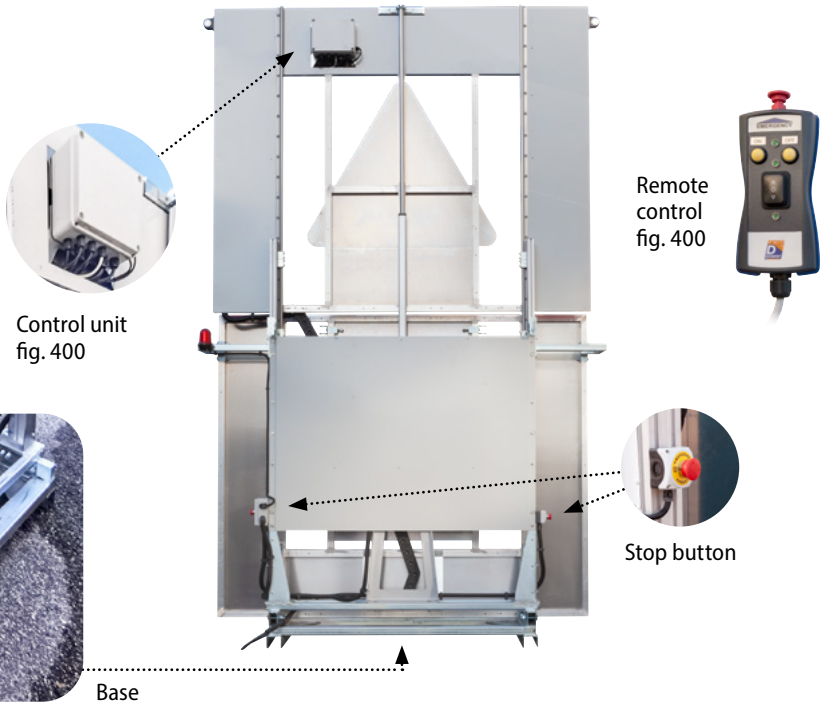


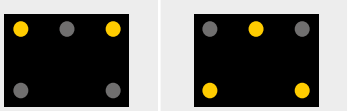
Fig. 401



Optional bar



Fig. 400



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FIG. **400** - FIG. **401**

LIGHT TRAILER WITH MANUAL LIFTING.

- Available with signalling panel fig.400 o fig. 401
- Aluminum signalling frame
- Aluminium panels with Reflective Film Cl II
- Optional remote control
- Fig.401:
  23 - Basic 211 LED
  2 - Basic 304 LED
- Fig.400:
  5 - Basic 304 LED.

Light Trailer

- Galvanized steel frame
- GVW max. 750 kg
- Closed case to house the batteries
- Adjustable shaft in height with repulsion.

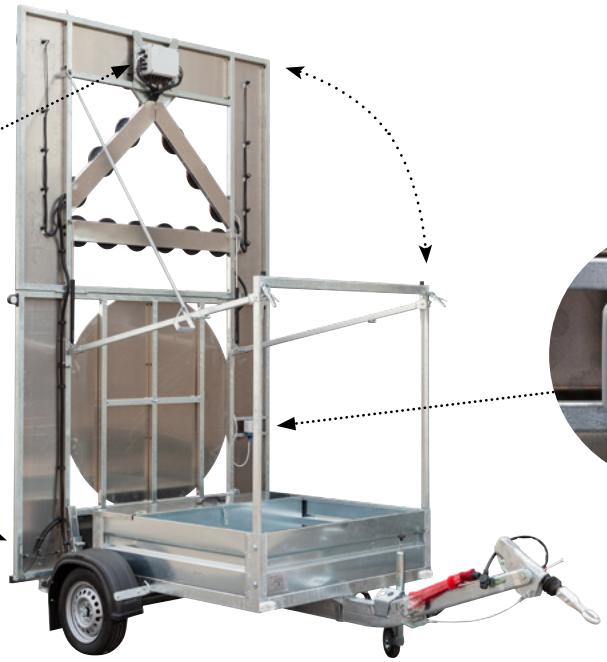


fig. 400


fig. 401


Control unit


LED headlights





Control panel


Remote control (optional)

Certification	Basic 211 **EN12352 L8H** Basic 304 **EN12352 L9H**
Colour	●
Power supply	**12/24 VDC**
Power cons.	Fig 400: **75 Ah/day** Fig. 401: **100 Ah/day**

Fig. 401


left arrow


right arrow

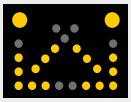
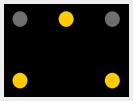

double arrow

Fig. 400





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

FIG. **400** - FIG. **401**

STRUCTURE WITH MANUAL LIFTING.

- Available with signalling panel fig.400 o fig. 401
- Aluminum signalling frame
- Aluminium panels with Reflective Film Cl II
- Optional remote control
- Fig.401:
  23 - Basic 211 LED
  2 - Basic 304 LED
- Fig.400:
  5 - Basic 304 LED.



fig. 400



fig. 401





Control unit
fig. 400

Energy Saving Mode
When the battery is low or you want to power the lights by solar panel kits, this mode reduces consumption by up to 60% while maintaining high visibility thanks to intelligent management electronics.

Available for light trailers and structures with manual lifting.

Certification	Basic 211 **EN12352 L8H** Basic 304 **EN12352 L9H**
Colour	●
Power supply	**12/24 VDC**
Power cons.	Fig 400: **75 Ah/day** Fig. 401: **100 Ah/day**

Fig. 401


left arrow


right arrow

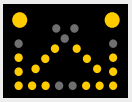
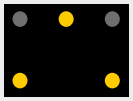

double arrow

Fig. 400





LED TORCHES



NX231

RECHARGEABLE AND MAGNETIC LED FLOOD LIGHT.

4 operating modes: steady light (100%),
steady light (50%), SOS flashing and fast flashing.
Charged by vehicle charging cable or 230/12V battery charger.
Aluminium body. Steel bracket.
Polycarbonate lens.





Power	**15 W**	Protection	**IP65**
Powered by	**Rechargeable lithium battery 7.4 V - 4.4 Ah**	Brightness	**950 lm** (100%) **475 lm** (50%)
Operating time	**4,5 hours** (100%) **9 hours** (50%)	Charging time	**4/5 hours**
Dimensions	**110 x 200 x 95 mm**	Fixing	**Magnetic base** **Foldable bracket**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

NX602

PROFESSIONAL LONG-RANGE LED TORCH.

High-power, long-range LED torch designed for professional use. The body, made of **T6061 aerospace-grade aluminum**, ensures durability even under heavy-duty conditions.
The **three operating modes** (high, low, and strobe) and **LED charge indicators** make the torch intuitive and reliable for everyday use.



Beam distance	**500 m**	Charging time	**4 ore**
Powered by	**18650 Li-ion battery pack (4000mAh)**	Brightness	**405 lm** (high) **20 lm** (low) **100 lm** (strobe)
Operating time	**3.5 h - 60 h - 4.5 h**	Protection	**IP65**
Dimensions	**Ø 51.5 x 263 mm**		

NX21

DUAL LIGHT HEADLAMP.

Versatile and durable headlamp designed for professional use. It combines a powerful **white light** with a **red signaling light**, ideal for ensuring maximum safety during nighttime operations. Featuring **three operating modes** (high, medium, and low), it is drop-resistant up to **1.5 m** and equipped with a **flicker-free power circuit without PWM**, providing stable and uniform light output. It is also equipped with a **practical magnetic side** that allows it to be easily attached to metal surfaces.







Beam distance	**151 m**	Charging time	**4 ore**
Powered by	**18650 Li-ion battery pack (4000mAh)**	Brightness	**1000 lm** (high) **350 lm** (medium) **50 lm** (low) **125 lm** (Steady and flashing)
Operating time	**3 h - 5.5 h - 48 h - 5h**	Protection	**IP66**
Dimensions	**Ø 51.5 x 263 mm**	Colore	○ ●
Fixing	**Head mount adapter - Magnetic base**		

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

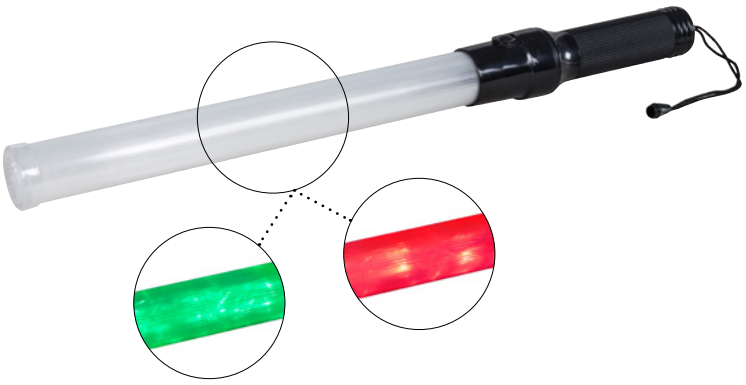
+39 030 2594120
info@d-power.com
D-POWER.COM

LED TORCH

DOUBLE COLOR LED TORCH.

Compliant with technical standards C.d.S. art. 181 (art. 43 C.d.S.) in red light mode.

Power supply	**2 D type batteries (excluded)**
Type of light	**Red: static and flashing** **Green: static**
Operating time	**> 120 hours** (flashing) **> 60 hours** (steady)
Dimensions	**Ø 50 x 540 mm**
Protection	**IP65**



TULIP 300

PORTABLE LIGHT TOWER

Suitable in situations where it is necessary to temporarily illuminate a construction site during the night.

Powered by		**2 batteries**	**Connected to the grid**
Operation		**4 brightness levels (800, 3000, 5000, 8000 Lm)**	**Dimmable (from 0 to 14.000 Lm)**
Operating time		**13h (5000 lm)** **7h (8000 lm)**	-
Dimensions	Closed	**261 x 198 x 1580 mm**	
	Open	**1014 x 894 x 3400 mm**	



Battery compartment fits two replaceable battery packs.

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

EMERGENCY KITS



LIGHTGUARD

RECHARGEABLE LIGHT DEVICE FOR PERSONAL SAFETY.

Practical and portable, to be used on roads or industrial in the industrial field.





Optic	**360° + front**
Colors	● ●
Flashing modes	**12 for single modules** **7 for the synchronized operation**
Power supply	**Rechargeable lithium battery**
Operating time	**3/20 hours (depending on the flashing mode)**
Charge time	**4 hours**
Protection degree	**IP68**
Fixing	**Magnetic base** **Magnetic clip**



LIGHTSHIELD

LED SYSTEM FOR EMERGENCY SIGNALLING IN DANGEROUS AREAS.

Set of 6 LightShields, rechargeable inside the case or individually.

Charging from the mains (230V) or cigarette-lighter socket (12V).

12 different selectable flashing modes.
(12 for single modules, 5 for synchronized operation).

Single magnetic devices, supplied with accessories for positioning on cones or with pockets for personal protection.

Available colours:

Supplied with:

	**6** - LightShield
	**6** - Pocket accessories for belt fastening
	**6** - Accessories for positioning on cones
	**6** - Power cables

Case





USB cable
Power supply 12/230 V

Watch the video:



Synchronizable with each other





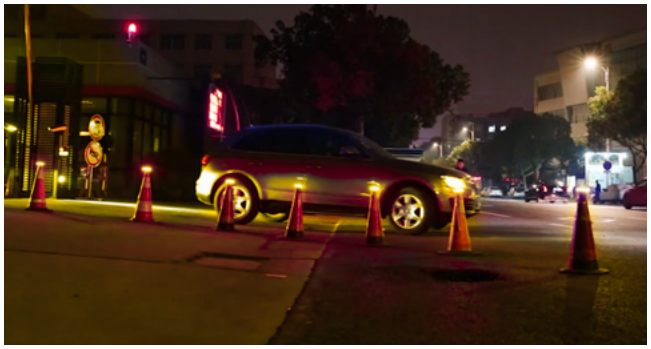
magnetic





for belt fastening





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

IMPULSE 104

Impulse 104 is a multicolor emergency LED kit with magnetic base, shock resistant and waterproof. Practical and portable, to be used on roads or industrial in the industrial field.

Optics	**360°**
Colors	
Flashing modes	**6 for the single module** **6 for the synchronized operation**
Power supply	**Rechargable lithium-ion battery 3000mAh**
Operating time	**15/80 hours (depending on the flashing mode)**
Charge time	**10/12 hours**
Protection degree	**IP67**
Fixing	**Magnetic base**



Devices synchronized with each other.



Housing for charging devices.



Rubber coating shock resistant.



Rubber drop pads on all 4 corners.

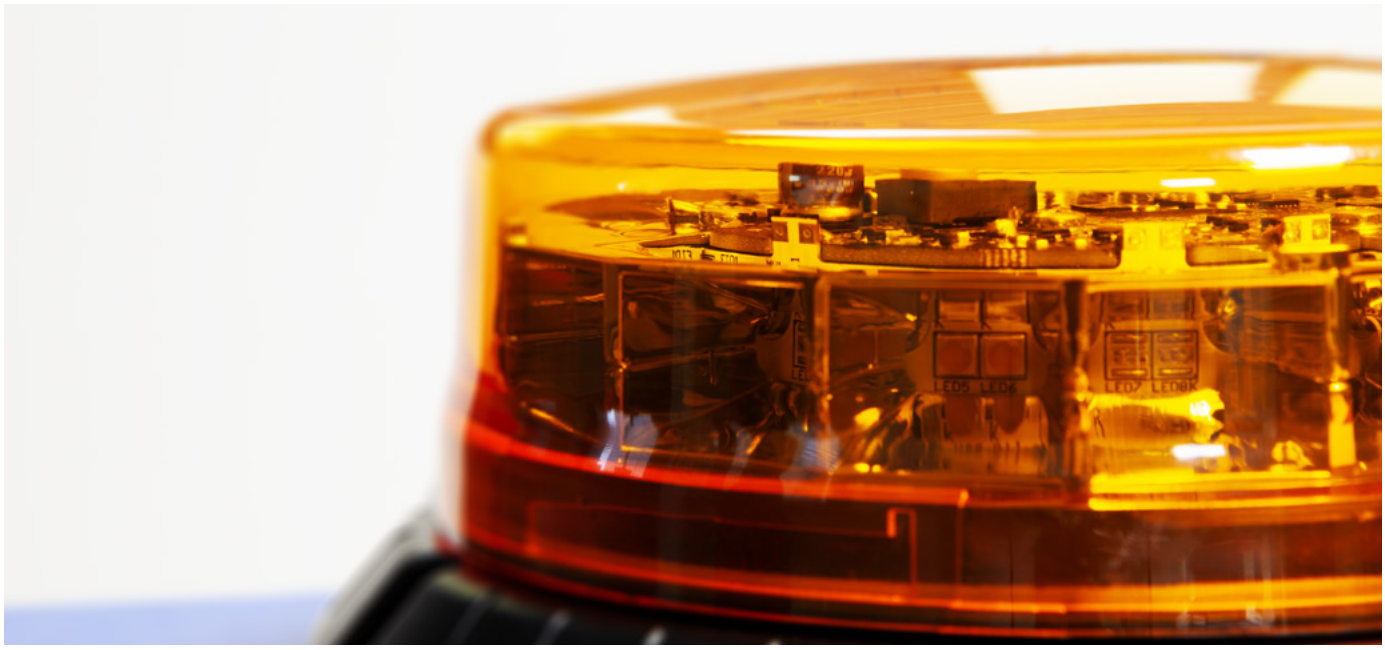


Charging from the power supply grid or cigarette lighter.

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED BEACONS



GOLD SERIES

ECONOMIC LED BEACON

for or industrial and safety vehicles.





European certification	**ECE R10 - ECE R65**
Colour	🟡
Input voltage	**12/24 VDC**
Power cons.	**0.80 A @12 V**
Mounting	**Fixed / magnetic**
Dimensions	**Ø 147 x 121 mm Fxed** **Ø 148 x 141 mm Magnetic**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

400 LED SERIES

ECONOMIC LED BEACON

for industrial and safety vehicles.

Available blue version for law enforcement vehicles.

Availabe vesion "ICAO" certified.







European certification	**ECE R65, R10**
Colour	
Input voltage	**12/24 VDC**
Power cons.	**0.9 A @12 V**
Mounting	**Fixed / magnetic / FLX**
Dimensions	**Ø 153 x 143 mm Fixed** **Ø 167 x 151,6 mm Magnetic** **Ø 134 x 208 mm FLX**

5100 SERIES

LOW PROFILE LED BEACON

for industrial and safety vehicles.





European certification	**ECE R65, R10**
Colour	
Input voltage	**12/24 VDC**
Power cons.	**2 A @12 V**
Mounting	**Fixed / magnetic / FLX**
Dimensions	**Ø 149 x 72 mm Fixed** **Ø 155 x 70 mm Magnetic** **Ø 148 x 172 mm FLX**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED BARS

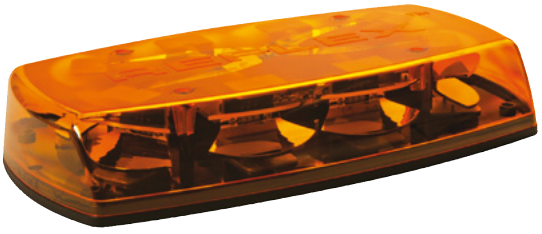


5565 SERIES

LOW PROFILE LED LIGHT MINI BAR.

Eight reflectors, each composed of three LEDs, provide high-intensity light.

17 selectable flashing modes.





European certification	**ECE R65**
Colour	🟡
Input voltage	**12/24 VDC**
Power cons. @12 V	**5.1 A**
Mounting	**Fixed / magnetic**
Dimensions	**381 x 79 x 229 mm**

12 LED SERIES

SLIM PROFILE ULTRA-BRIGHT LED LIGHT BAR, with minimum aerodynamic impact

Low current draw.
Long life LEDs maintenance-free.
360º light output.
Built-in 33 selectable flash patterns.
7 standard configurations ECE R65.
Optional control unit.











European certification	**ECE R65, R10**
Colour	🟡
Input voltage	**12/24 VDC**
Power cons.	**8,8 A @12 V**
Mounting	**Fixed**
Available lenghts	**1220 mm - 1370 mm - 1520 mm - 1830 mm**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

ED3300 SERIES

DIRECTIONAL LED BAR.

Directional arrow with control head right / left / flasher.
With external controller.



Colour	●
Input voltage	**12 / 24 VDC**
Power cons.	**20 W**
Mounting	**Fixed**
Dimensions	**1232 x 51 x 76 mm**

BASIC BAR **211**

DIRECTIONAL LED BAR.

Control head right / left / flasher.
Length 130 cm.
5 Basic 210 LED lights approved to EN12352 L8H.
12 or 24 V.

With EPM controller.







DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

BASIC BAR **304**

DIRECTIONAL LED BAR.

Control head right / left / flasher.
Length 222 cm,
6 Basic 304 LED lights approved
to EN 12352 L9H.
12 or 24 V.



Available version for Fig.400
with electronic flag weaver.
Control head right / alternating flasher.

With EPM controller.





DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LED LIGHT DEVICES



NCC66

6 LED LIGHT MODULE.

Do not require any external controller.

Several flashing patterns.



European approval	**ECE R65, R10**
Colour	
Tensione ingresso	**12 / 24 VDC**
Max power cons.	**1.2 A @ 12 V**
Mounting	**Fixed**
Dimensions	**120,5 x 31,4 x 14,3 mm**

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

NCC3703A

3 LED LIGHT MODULE.

Do not require any external controller.

Several flashing patterns.



European approval	**ECE R65, R10**
Colour	🟡
Tensione ingresso	**12 / 24 VDC**
Power cons.	**0.4 A @ 12 V**
Mounting	**Fixed**
Dimensions	**93 x 35 x 15 mm**

NCC3705A

6 LED LIGHT MODULE.

Do not require any external controller.

Several flashing patterns.



European approval	**ECE R65, R10**
Colour	🟡
Tensione ingresso	**12 / 24 VDC**
Power cons.	**0.9 A @ 12 V**
Mounting	**Fixed**
Dimensions	**158 x 35 x 15 mm**

Traffic control equipment - Warning and safety light devices

Scope and applications
This European Standard specifies the requirements for individual electrically operated light devices, called warning lights, emitting a continuous or regular intermittent light of a single colour which, by their colour and position alone, are used to warn, inform or guide road users.
It specifies the requirements for visual, structural and operational performance and the relevant test methods to be used.
This European Standard is not applicable to lighting devices, which convey messages by additional means (e.g. variable message signs) or which convey a mandatory instruction (e.g. traffic signals) or which are covered by vehicle lighting regulations.
Below you will find a table with the most relevant classes of the norm that covers most of the applications, permanent or temporary, used in the European Union.
In the next page we present a guide that can help choosing the proper LED light in different situations.
This guide is not an official transposition of the norm but it is to be considered a recommendation based on our experience and the official transpositions of some countries of the European Union.

Luminous intensity - Relevant classes

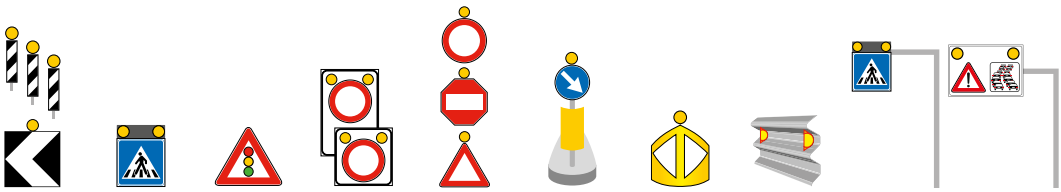
Class	Area of light emitting surface [cm^2]	Min. diameter of light emission [mm]	Range of angles		Luminous intensity (Day)		Luminous intensity (Night)
			Horizontal	Vertical	Min. [cd]	Max. [cd]	Dim to
L2H	≥18	48	+7° ... -7°	+5° ... -5°	150	1500	35 %
L6	≥2x250	178.5	+10° ... -10°	+5° ... -5°	10	100	35 %
L7	≥250	178.5	+10° ... -10°	+5° ... -5°	20	100	35 %
L8G	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	25	100	35 %
L8M	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	500	1500	35 %
L8H	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	1500	5000	35 %
L9M	≥700	298.6	+1.5° ... -1.5°	+1.5° ... -1.5°	2000	8000	35 %
L9H	≥700	298.6	+1.5° ... -1.5°	+1.5° ... -1.5°	20000	40000	35 %

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

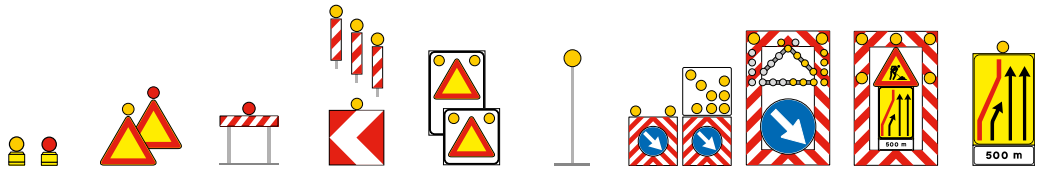
EN 12352 CLASSES

FIXED applications



50 Urban roads	**Class**	L8M L8H	L2H L8M	L2H	L8M L8H	L2H L8M	L2H L8M		L2H	L8M L8H	L8M L8H
	LED light	Basic 200	Basic 102 Basic 201	Basic 102	Basic 201	Basic 200	Basic 200 Basic 201		RGR	Basic 200 Basic 201	Basic 201
90 70 Secondary roads	**Class**	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L2H	L8M L8H	L8M L8H
	LED light	Basic 200	Basic 201	Basic 201	Basic 201	Basic 200	Basic 200 Basic 201	Basic 200 Basic 201	RGR	Basic 200 Basic 201	Basic 201
130 110 Main roads and Motorways	**Class**	L9M L9H			L9M L9H	L9M L9H		L9M L9H	L2H		L9M L9H
	LED light	Basic 304			Basic 304	Basic 304		Basic 304	RGR		Basic 304

TEMPORARY road work zone applications



50 Urban roads	**Class**	L6 L7	L6 L7	L6 L7	L8H L8M	L8H L8M		L8H L8M			
	LED light	D-Star	D-Star	D-Star	Basic 210	Basic 211		Basic 211			
90 70 Secondary roads	**Class**	L6 L7 L8G *	L6 L7 L8G/M *	L6 L7	L8H L8M	L8H L8M	L8H L8M	L8H L8M	2 x L9M 23 x L8H	2 x L9M 3 x L9H	L8H L8M
	LED light	D-Star	D-Star Basic 210	D-Star	Basic 210	Basic 211	Basic 210	Basic 211	Basic 211 Basic 304	Basic 304	Basic 210 Basic 211
130 110 Main roads and Motorways	**Class**	L6 L7 L8G *	L6 L7 L8G/M *	L6 L7	L8H L8M	L8H L8M	L9M L9H	L8H L9M L9H	2 x L9M 23 x L8H	2 x L9M 3 x L9H	L8H L8M L9H L9M
	LED light	D-Star	D-Star Basic 210	D-Star	Basic 210	Basic 211	Basic 309	Basic 211 Basic 309	Basic 211 Basic 304	Basic 304	Basic 210 Basic 211 Basic 309

* only yellow

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

LIGHTING AND SIGNALLING DESIGN OF PEDESTRIAN CROSSINGS

SCOPE AND APPLICATION

This technical specification provides the guidelines to correctly design the lighting of pedestrian crossings on motor vehicle roads in application of EN13201.

TERMS AND DEFINITIONS

Waiting area
Limited area next to the traffic lanes where pedestrians stand before crossing. Typically the waiting area is a portion of the sidewalk.

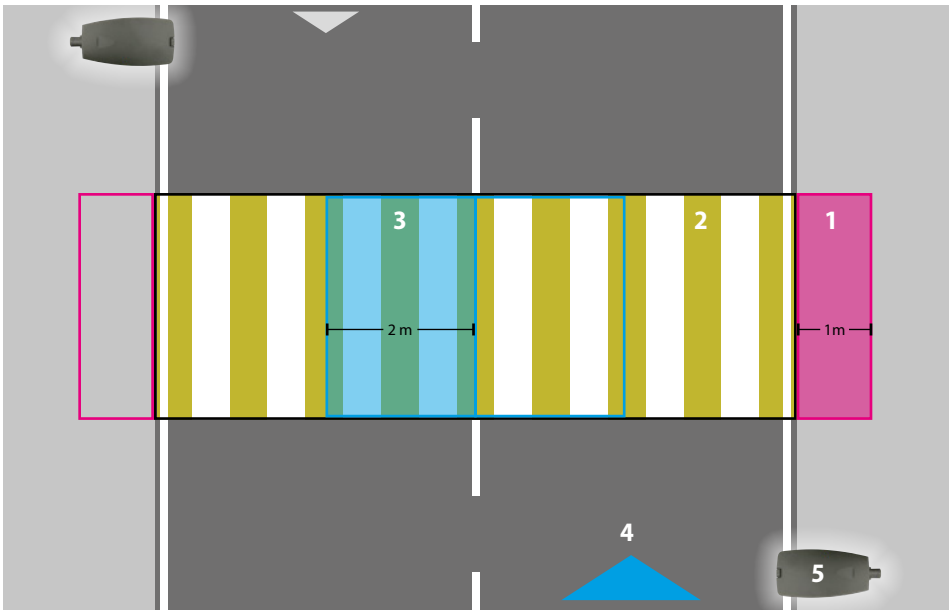
Crossing area
Transversal portion of the road where pedestrians walk when crossing. This area is identified by the white stripes.

Transition zone
Portion of the crossing area of two-way roads, located in the opposite travel direction lane, where a pedestrian that is already crossing the road must start to be visible to incoming traffic.

Road class	Lighting classes of the pedestrian crossings
M1	-
M2	**EV1** (50 lux min.)
M3	**EV2** (30 lux min.)
M4	**EV2** (30 lux min.)
M5	**EV3** (10 lux min.)
M6	**EV3** (10 lux min.)

The different areas for the travel direction are highlighted above:

1. **waiting area**
2. **crossing area**
3. **transition zone**
4. **traffic lane**
5. **LED streetlight**



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

TECHNICAL SPECIFICATION

CALCULATION GRID

The calculation grid consists in a series of points along the transversal axis of the road passing through the center of the pedestrian crossing which have a constant distance not exceeding 1m, all points are on a plane at a height of 1m from the road level.

Four (4) additional points shall be placed at the edges of the measuring area, two (2) at the outer limits of the waiting area and two (2) at the outer limits of the transition zone.

All these points are measuring vertical illuminance and shall be oriented towards the incoming traffic.

The vertical illuminance measured on the whole axis of the crossing, shall be greater than the applicable EV class.

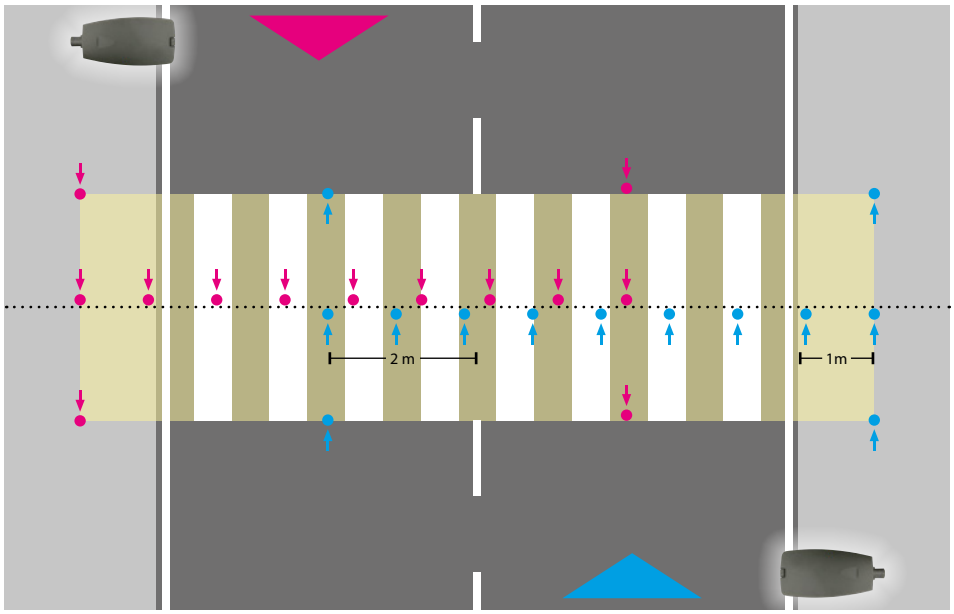
To ensure uniformity, the vertical illuminance measured on the four (4) points at the edges of the measuring area shall be 15% or greater than the applicable EV class.

MEASURING AREA

Two-way roads
Starts from the outer limits of the waiting area and extends to the outer limits of the transition zone. One traffic direction is considered for evaluation.
One-way roads
Starts from the outer right limits of one waiting area and extends to the outer left limits of the other waiting area.

DYNAMIC LIGHTING

In case interactive systems are installed, the pedestrian crossing and its users may be more visible if the lighting level is increased when they are crossing. At least one (1) lighting class increase from the standby mode is requested. If the standby requirement is already EV1, a minimum increase of 50% is requested.



WARNING AND SAFETY LIGHT DEVICES

Active safety devices are another way to increase the visibility of pedestrian crossings especially during the day:

- **Backlit signs** minimum class **L2** according to **EN 12899-1**
- **Flashing lights** minimum class **L8M** (with 90x90 cm signs) or **L2H** (with 60x60 cm signs) according to **EN 12352**.

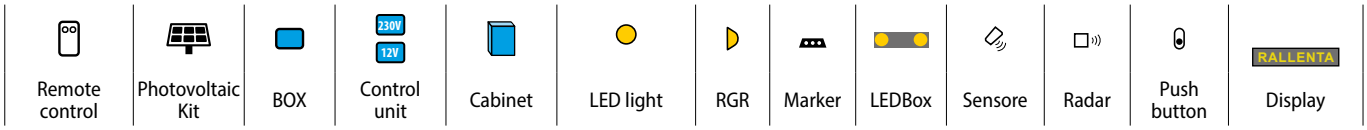
DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

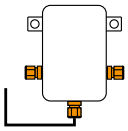
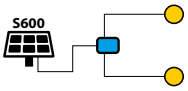
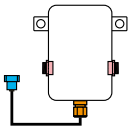
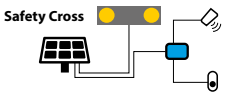
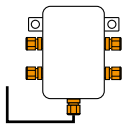
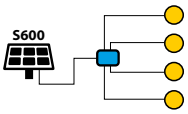
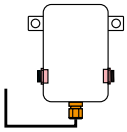
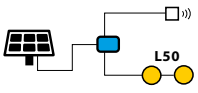
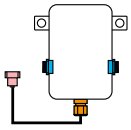
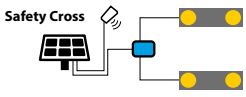
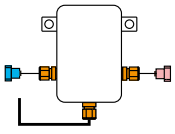
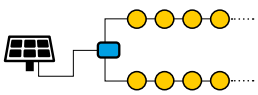
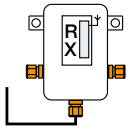
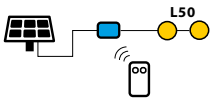
+39 030 2594120
info@d-power.com
D-POWER.COM

CONTROL UNITS

JUNCTION BOXES

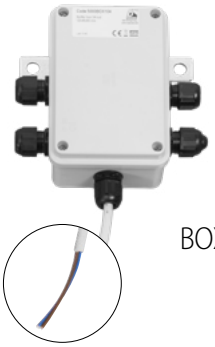
Legend



Juction Boxes / By-pass				Suitable for:
BOX 100		Junction box 2 out		All BASIC LED lights with external control
BOX 102		Splitter box for sensor/push button with connectors for SAFETY CROSS		SAFETY CROSS
BOX 104		Junction box 3-4 out		All BASIC LED lights with external control
BOX 106		Conversion box from standard power supply kit to by-pass for SAFETY RADAR		RADAR LC INDICATOR FLAT 3/ PLUS/VARIO TEMPOFLASH DOUBLE SYSTEM
BOX 111		Splitter box for LEDBox with connectors for SAFETY CROSS		SAFETY CROSS
BOX 115		Junction box for sequence central power supply with THB.384 connectors		LED LIGHTS SEQUENCES BASIC 210
BOX 134		BOX receiver 12/24V, 1-2 OUT		Using the remote control 5000503542, the BOX switches on devices at 40m

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

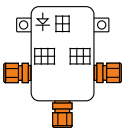
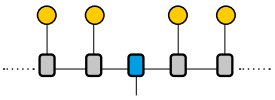
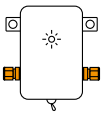
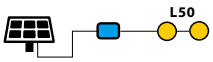
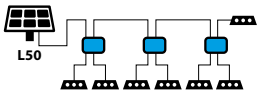
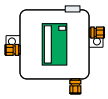
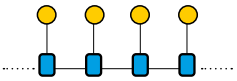
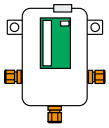
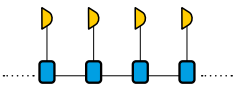
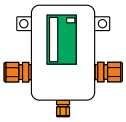
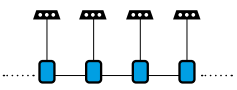
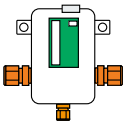
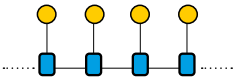
+39 030 2594120
info@d-power.com
D-POWER.COM



BOX104



HBOX113

BOX 137		By-pass box with diode, sequence light application with multiple power supply		SEQUENCE LIGHTS SYSTEM with multiple power supply
BOX 144		Switch BOX with LED indication		To be installed between power supply and device to turn on
BOX 303		Junction box 2/3 out, TH392, IP68, with cap		KRONOS SIDE 25
	Boxes for sequences			**Suitable for:**
HBOX 113		Thermosetting BOX for sequence CE011, 10th, with night dimming 12/24Vdc		All BASIC LED lights with external control and RGR marker
BOX 113		Control unit for sequence CE011, 10th, with night dimming 12/24Vdc		All BASIC LED lights with external control and RGR marker
BOX 114		Control unit for slow sequence CE011, 10th, without night dimming 12/24Vdc		KRONOS SIDE 25
BOX 118		Control unit for sequence CE011, 10th, with night dimming, 12/24Vdc, guiding light		All BASIC LED lights with external control and single LEDBOX

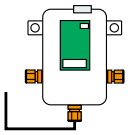
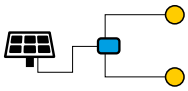
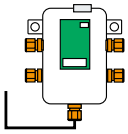
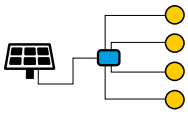
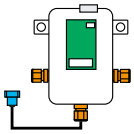
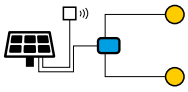
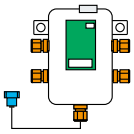
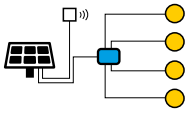
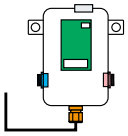
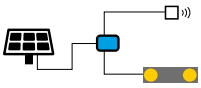
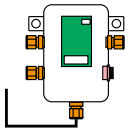
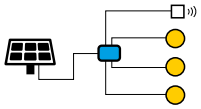
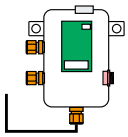
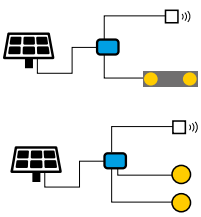
JUNCTION BOXES



BOX108



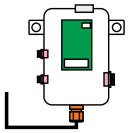
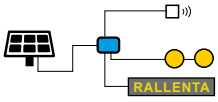
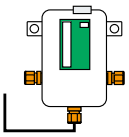
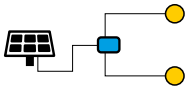
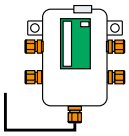
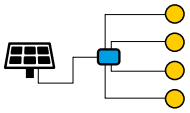
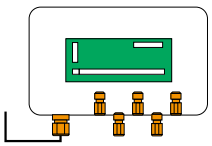
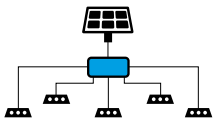
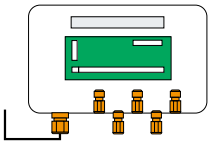
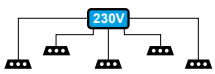
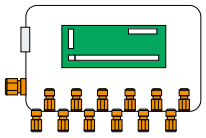
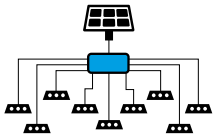
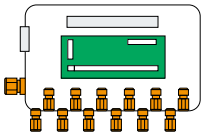
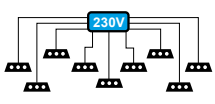
BOX111

	Boxes for fixed devices			Suitable for:
BOX 108		Control unit for double sync. FlashLED night dimming 12-24Vdc		All BASIC LED lights with external control
BOX 109		Control unit for triple/quadruple sync. FlashLED night dimming 12-24Vdc		All BASIC LED lights with external control
BOX 116		Control unit for double sync. FlashLED night dimming 12-24Vdc with radar connector		All BASIC LED lights with external control + 4P connector on power supply
BOX 117		Control unit for triple/quadruple sync. FlashLED night dimming 12-24Vdc with radar connector		All BASIC LED lights with external control + 4P connector on power supply
BOX 119		Conversion box from standard power supply kit to by-pass for SAFETY RADAR (external control devices)		Tutti i proiettori BASIC a comando esterno LEDBOX a comando esterno con connettore 4 poli
BOX 121		BOX impianto triplo FlashLED, sincronizzato, rid. nott., 12-24Vdc, connettore per radar		All BASIC LED lights with external control with 4P connector
BOX 124		Conversion box from standard power supply kit to by-pass for SAFETY RADAR (external control devices) with M16 cable gland for input LED Lights		All BASIC LED lights with external control

JUNCTION BOXES



BOX161

BOX 129		Control unit with L50 flash 20%, Night dimming, 12Vdc conn.F 4P for sensor, 2xF 2P for input LED lights		SAFETY RADAR with display “Slow Down” + BASIC 998342 SAFETY RADAR with display “Slow Down” + cup
BOX 136		BOX for double sync. TRIflash night dimming 12-24Vdc		All BASIC LED lights with external control
BOX 146		BOX for triple/quadruple sync. TRIflash night dimming 12-24Vdc		All BASIC LED lights with external control
	Control units			**Suitable for:**
BOX 131		Control unit for sequence with night reduction 12/24Vdc LC401 / 5 out 12-24Vdc		To be used up to 5 pieces of Side25, PowerGround 3, Kronos or LED lights with external control
BOX 132		Control unit for sequence with night reduction 12/24Vdc LC401 / 5 out 230Vac		To be used up to 5 pieces of Side25, PowerGround 3, Kronos or LED lights with external control
BOX 161		Control unit for sequence with night reduction 12/24Vdc LC401 / 6+6 out 12-24Vdc		To be used up to 5 pieces of Side25, PowerGround 3, Kronos or LED lights with external control
BOX 162		Control unit for sequence with night reduction 12/24Vdc LC401 / 6+6 out 230Vac		To be used up to 5 pieces of Side25, PowerGround 3, Kronos or LED lights with external control

DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

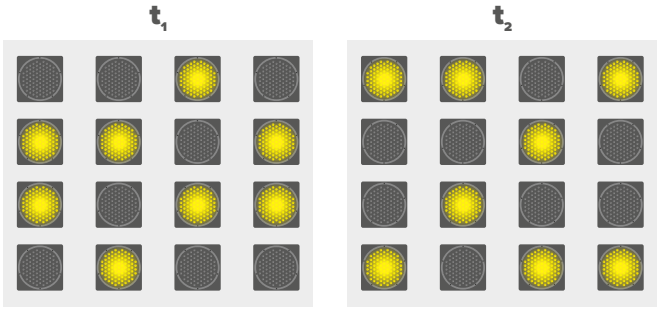
+39 030 2594120
info@d-power.com
D-POWER.COM

COORDINATED LIGHT SIGNALING FOR ADVANCED VISIBILITY.

SYNC is an operating mode that synchronizes the flashing of multiple devices, creating coordinated signaling.

GREATER VISIBILITY, LESS CONFUSION

When multiple devices flash randomly and asynchronously, the overall signaling in our field of vision can become cluttered and less effective, potentially even reducing the effectiveness of each individual device.

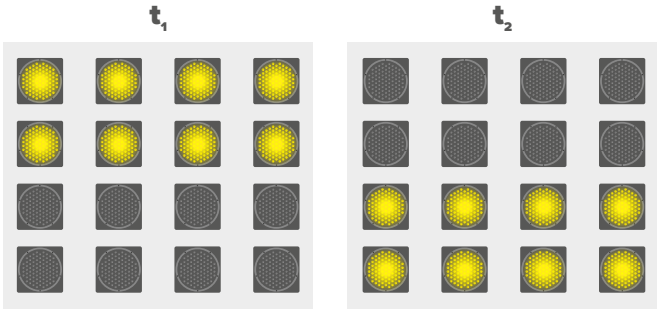


With SYNC, all devices flash in perfect synchrony.
This creates a coordinated visual effect that:

Increases the perception of light intensity: when devices flash synchronized, we perceive them as one large, coordinated signal. The overall visual effect is more effective because the light emissions from the individual devices are perceptually combined.

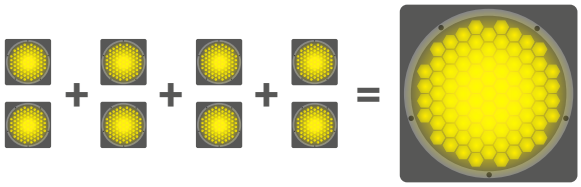
Improves road safety: clear, coordinated signaling is easier to identify and interpret.

Creates order: eliminates the chaotic effect of multiple independent flash patterns.



AN HORIZONTAL TECHNOLOGY FOR MODULAR SYSTEMS

SYNC is designed to synchronize between them different products in our range, including **Ecosolar, Marker, APL** and other devices.



DETAS SpA - D-Power division
Via Treponti, 29 - 25086 Rezzato (BS) ITALY
ISO 9001 - ISO 14001 certified company

+39 030 2594120
info@d-power.com
D-POWER.COM

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