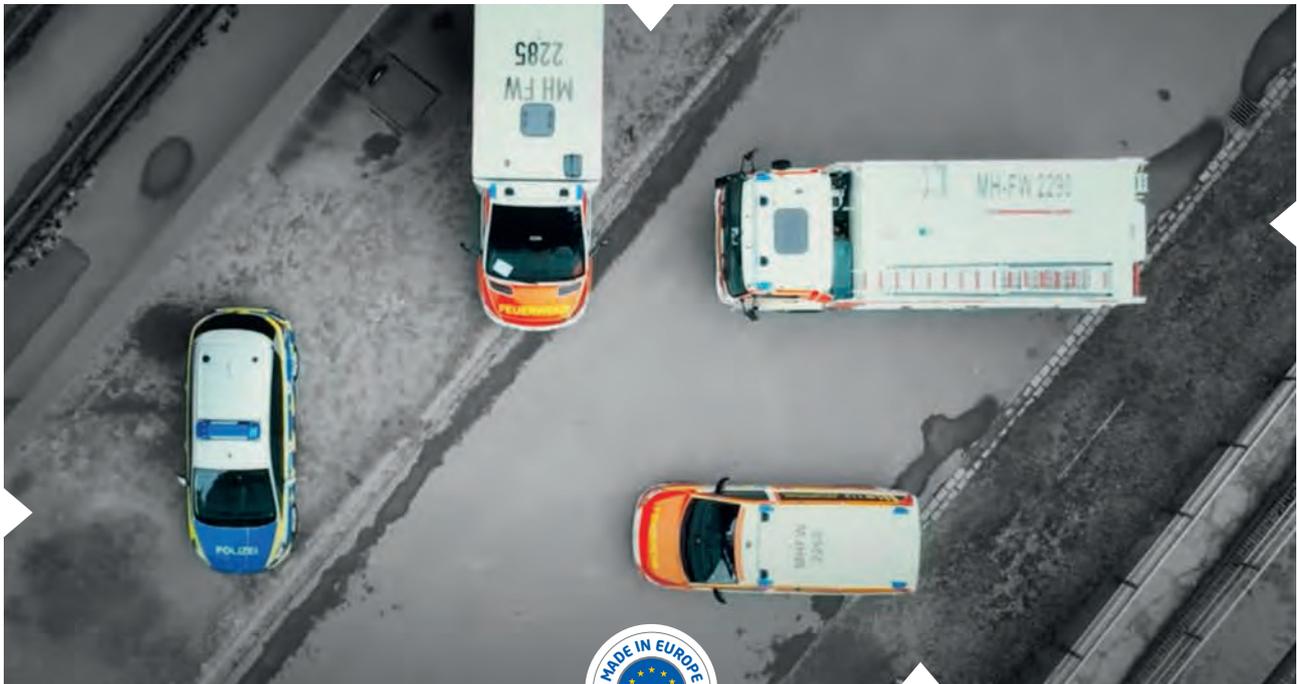


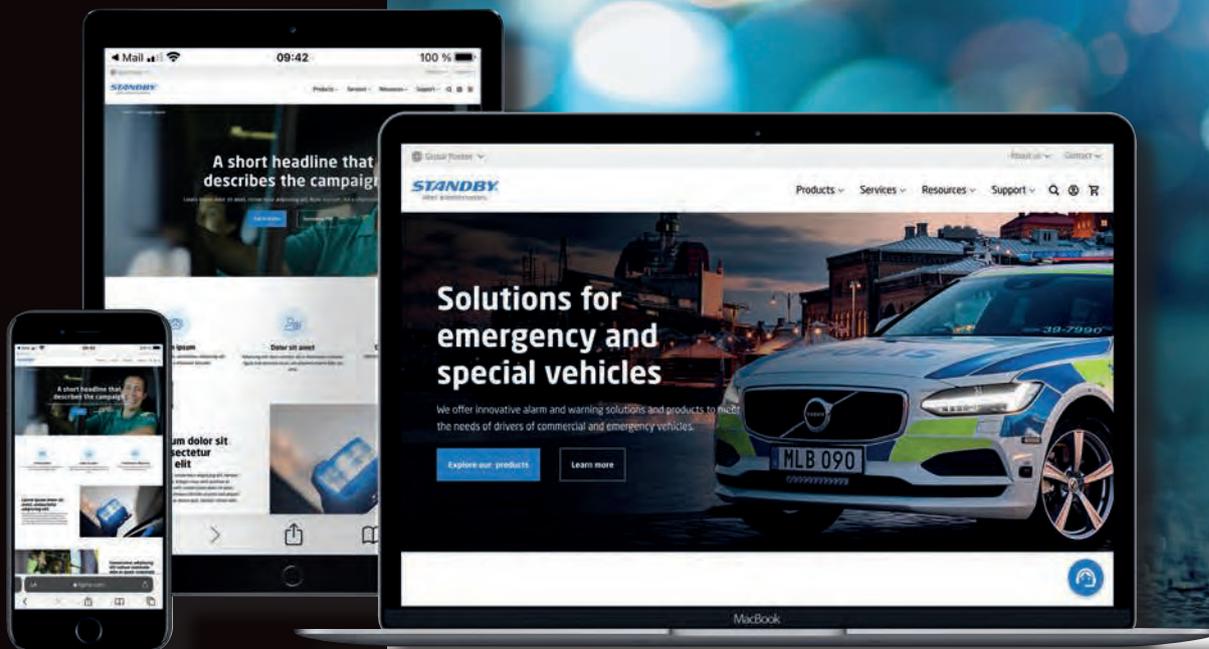
STANDBY®

G R O U P

Vehicle light and audio signalling



www.standbygroup.com



RICH IN INFORMATION

- Product pages
- Technical guides
- Installation instructions
- News
- Demonstration videos
- Approvals

YOU CAN CONSULT
OUR WEBSITE

www.standbygroup.com

STANDBY[®]
G R O U P

SUMMARY



#1 - CORPORATE PRESENTATION	05	#4 - ROOF SYSTEMS	111
Standby-Group® presentation	06	ZENO range - Emergency light arrows 23 lights	116
Presentation	10	Emergency light arrow 15 lights	117
		AKIO range - Message panels with frame	118
		NORA range - 14 lights arrows	119
		Message panels without frame	120
		Pop-up encased triangle	121
		Roof systems options	122
		Technical information	126
#2 - EQUIPMENT FOR EMERGENCY VEHICLES	17		
LED beacons	18		
LED lights	26		
Motorcycle equipment	34		
Integrated solutions	36		
Lightbars	38		
Audio Signalling devices	56		
		#5 - ELECTRONIC SYSTEMS	133
		Control kits	135
		Urgency button H1/P1	140
		Stand-alone VMP	141
		Topometer E-ZY	142
		Motorlock	143
		MSC 124 / R 124	144
		Power module, cables, connectors	145
		Multi Signal Display MSG	149
		Handheld panel BT-H100	150
		CSDS	151
		MCS	152
		FleetMotus	154
#3 - EQUIPMENT FOR SERVICE VEHICLES	67		
Airport equipment	68		
LED beacons	72		
Lightbars	78		
Triangles	90		
LED Lights	98		
Searchlights	106		

PICTOS PRODUCT GUIDE

Delivery lead times, information, regulations, etc... Discover the advantages and features of our products at a glance.

Technical specifications	Autonomy	Products guarantees	Electric accessories	Product availability	Delivery 24 hours
Packaging	The advantages	Delivery 4 weeks	Accessories	Hire possible	Digital recording SD micro card
New product	Dual colour	UTAC approval	R65 approved product	Regulations	Made in Europe

Considering technological progress, we reserve the right to modify the technical specifications of our products and their prices without notice. Photos not contractually binding.





Corporate presentation

PRESENTATION

#1

Standby-Group presentation.....06
Presentation.....10

standbygroup.com

#1 - STANDBY GROUP® PRESENTATION

.....

At Standby group we develop, manufacture, and sell visual and audible warning equipment for emergency, commercial and special vehicles.

We offer **high quality LED lighting equipment**, including lightbars, beacons flashers and accessories. We also offer a wide range of control systems, siren amplifier and related accessories.

The group employs **around 170 people** across Sweden, Finland, Germany, United Kingdom and France. This means we can offer our customers first class service and local support regardless of where they are located.

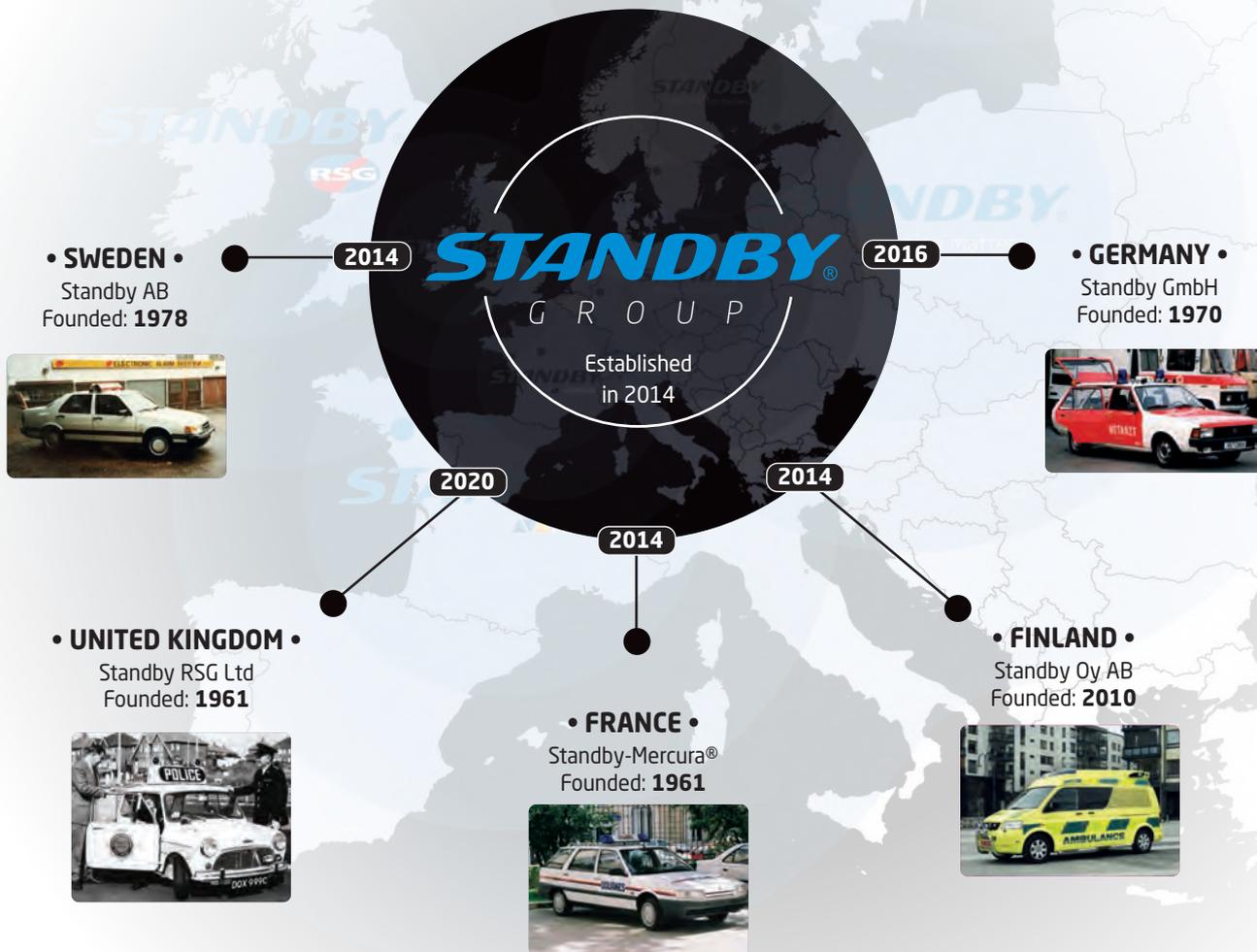
Combining expertise, highly skilled staff and a strong focus on service, we have forged a reputation as a reliable, effective partner.

The Standby group is made up of the following 5 companies:

-  Standby AB (*Sweden*)
-  Standby Mercura (*France*)
-  Standby GmbH (*Germany*)
-  Standby Oy (*Finland*)
-  Standby RSG (*UK*)

Keys figures:

- **170** employees across Europe
- **2 300** catalogue references
- **2 500 000** LEDs per year



#1 - STANDBY GROUP® PRESENTATION

.....

▶ **OUR VISION**

- Leading the way in road safety.

▶ **OUR MISSION**

- We are an innovative and agile system integrator with strong customer focus.
- We offer high quality warning equipment, control systems and services for emergency and special vehicles.

▶ **OUR CORE VALUES**

- Customer focus
- Teamwork
- Trust
- Passion for winning
- Respect

▶ **OUR STRENGTHS**

- European design and manufacture
- Good understanding of local market needs
- Strong customer focus
- Innovation as a strategy
- High technology and quality products
- The power of Group



WHY WORK WITH US

Superior Design and Quality

Our products are designed to last and can be trusted to perform

Innovation

We help to realise the solutions of tomorrow

Service

We care about our partners and find solutions that fit their needs

Leadership

We are the experts in our field and lead the way in road safety



#1 - PRESENTATION



STANDBY
RSG

STANDBY
When attention matters.

STANDBY
When attention matters.

STANDBY
MERCURA



A TEAM AT YOUR SERVICE

• Omar **Chraibi** •

Sales contact



A UNIQUE
WAY
TO CONTACT US

export@standbygroup.com



• Daniel **Schmitzer** •

Sales contact



• Christian **Cardemyr** •

Sales contact

#1 - PRESENTATION

.....

▶ CUSTOMER SERVICE



• Attentive team •

• Great responsiveness •

• Technical hotline •

• Training center •

Support tool text: manuals, technical documents, training videos, software...



• Certified ISO 9001 • ISO 14001*



• European approvals as R65, CEM, ICAO, EASA •



• Issuance by official organizations •



STANDBY

* Only for Standby AB & Standby GmbH

#1 - PRESENTATION

.....

▶ **OUR REFERENCES****FRANCE**

- French Police
- French Gendarmerie
- Airports
- Fire Brigade
- Highway companies
- Ambulance

**SWEDEN**

- Swedish Police and dog car Police
- Norwegian Police
- Danish Police
- Icelandic Police
- Fire and ambulance in Scandinavia
- Swedish Custom

**GERMANY**

- Police North Rhine-Westphalia
- Federal Police Austria
- Police Lower Saxony
- Police Baden-Wuerttemberg
- Airport Düsseldorf
- Airport Qatar





FINLAND

National Police
Ambulance
Fire Services
Airports



UNITED KINGDOM

National Police Forces
National Ambulance Services
National Fire Services



POLIS

39-7990



Equipment for emergency vehicles

#2

EMERGENCY
VEHICLES

- LED beacons18
- LED lights.....26
- Motorcycle equipment.....34
- Integrated solutions.....36
- Lightbars.....38
- Audio Signalling devices.....56

LED BEACONS

THE R65 STANDARD FOR SPECIAL SIGNALLING EQUIPMENT

R65 Approval criteria

1

Light power



2

Colorimetry

Blue colour defined by the R65 standard



3

Type of flash

2 types of approval, rotating or flashing, depending on the use.



4

Angle of visibility

The angle of visibility is defined by the standard, and must imperatively be complied with.



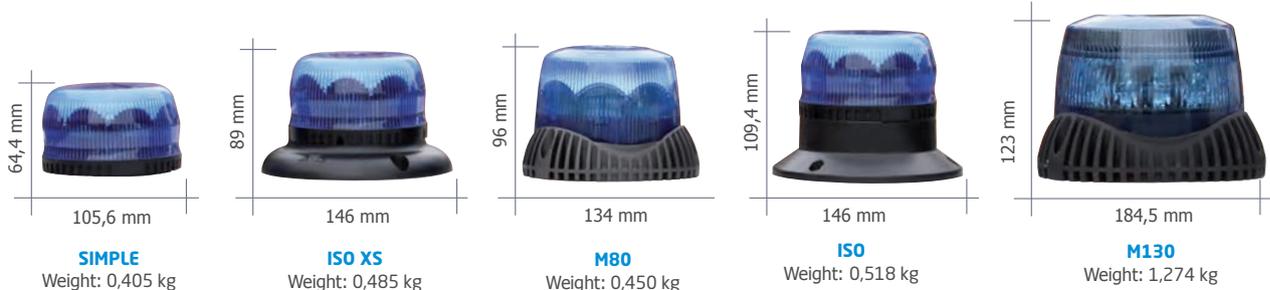
Approval does not depend on the number of LEDs or LED layers.



The applications?

The R65 class 1 minimum approval is a requirement for the light signalling on emergency vehicles or vehicles with right of way.

Gyroled® range



Gyroled[®], a Standby-Mercura[®] innovation!

- **Approved R65** rotating LED light
- Flash and rotating mode
- Polycarbonate cover
- Comfort > noise level = 0 dB
- Can be used with the engine off
- Watertight product, protected from polarity reversals and not vibration-sensitive
- No maintenance! No belt, no motor or expensive lamps to replace



COMPARISON

GYROLED M130 CLASS 2 AND GYROLED M80 CLASS 1



Detailed comparison of our Gyroled range, see page 18

Fixing	Color	Mode	Reference
ISO	Blue	Programmable	28700

ISO adapter
Top assembly

Code
30674



Gyroled M130

Class 2



- R65, EMC approved LED beacon
- R65, Class 2 lighting power
- 13 flash modes available
- Polycarbonate cover
- Lighting on the top of the Gyroled for identification from the air

TECHNICAL SPECIFICATIONS

- **Height:** 123 mm - Diameter: 184.5 mm
- **ISO weight:** 1.274 kg
- **Power supply voltage:** 12-24 V
- **Power:** 22 W maximum
- Cruise feature
- **Operating temperature:** -40 °C to +85°C
- Protected from polarity reversals
- **Consumption:** - 12 V : 1,8 A - 24 V : 0,9 A

APPROVALS

- **Photometry:**
R65 Approved (*special warning lights*):
Blue flash: TB2 (E2) 0016105
Blue rotating: TB2 (E2) 0016106
- **Protection:**
Seal-tightness: IP 45
Protection from mechanical impacts: IK06
- **EMC:**
"E" marking, Regulation R10 N° E2 10R05 16034
CISPR25 (2008): class 5 radiated; class 5 conducted

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

GYROLED® M80 blue - Class 1



- LED beacon, EMC and R65 approved in flash and rotating mode
- High brightness R65 Class 1 approved
- 13 available flash patterns, modifiable with a magnet (code 30736)
By default, product delivered in rotating mode
- Light plastic base for better heat dissipation



TECHNICAL SPECIFICATIONS

- 13 flash patterns
- Polycarbonate dome
- **Input voltage:** 12-24V
- **Power supply:** 11 W maximum
- **Operating temperature:** -40°C to +85°C
- Protected against polarity reversals
- **Average consumption:** 900mA depending on the operating mode
850mA in rotating mode at 13.5V
- **Warranty:** 3 years

ISO VERSION

- **Height:** 96 mm - Diameter: 134 mm
- **Weight:** 0.450 kg

PIPE-MOUNT VERSION

- **Height:** 176 mm - Diameter: 134 mm
- **Weight:** 0.585 kg

MAGNETIC VERSION WITH CIGAR LIGHTER PLUG

- **Height:** 105 mm - Diameter: 134 mm
- **Weight:** 0.750 kg
- Spiral cable, minimum length 50cm, maximum 3m

APPROVALS

PHOTOMETRY

- R65 Class 1 approval in flash and rotating mode

PIPE-MOUNT VERSION

- **Ingress Protection Code:** IP 45
- **Protection from mechanical impacts:** IK08

EMC

- « E » **Marking Regulation R10 N° E2 10R05 16242 CISPR25 (2008):**
class 4 or 5 radiated

M80 grill

Name	Code
Protection grid for M80	32209

13 AVAILABLE FLASH PATTERNS

WHICH CAN BE MODIFIED IN FEW SECONDS



ISO version



Pipe-mount version



Magnetic version with cigar lighter plug

Mounting	Code
ISO	30576
Pipe-mount	30581
Magnetic with cigar lighter plug	31652
1 point	33993





Power
and state-of-the-art
technology !

- The **LED beacon RHODON** uses state-of-the-art technologies.
- Various variants allow the use as magnetic beacon for vehicles in undercover use, as a fixed mounted beacon or with a tube mount base.
- The use of modern, high-power, high-performance LEDs in conjunction with specially designed prism lenses ensures a high light output in the smallest possible space. This allows a perception even at a great distance.
- Magnetic version approved up to 320 km/h (*DEKRA and ATP GmbH Papenburg*).
- Light available only with flash mode.



TECHNICAL SPECIFICATIONS

- **Power supply:** 10-30V
- **Lens:** blue
- **LED colour:** blue
- **Cable length (magnetic version):** 3 m (straight)
- **Mounting:** magnetic, pipe mounted or ISO
- **Consumption:** 12V : 1,3A / 24V : 0,6A
- **Dimensions (diameter x height):**
 - **Magnetic:** 107,7 x 130,8 mm
 - **Pipe mounted:** 107,7 x 151 mm
 - **ISO:** 107,7 x 103,5 mm
- **Weight:** approx. 750g (magnetic version, without cable)
- **Protection rating:** IP X5

APPROVALS

- R65, class 2 • EMC R10

EMERGENCY
VEHICLES

Name	Code
RHODON: blue, flash, ISO base, 35mm	31222
RHODON: blue, flash, pipe mounted	31223
RHODON: blue, flash, magnetic with Cigar Lighter Plug	31224



Pipe-mounted



ISO



Magnetic

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



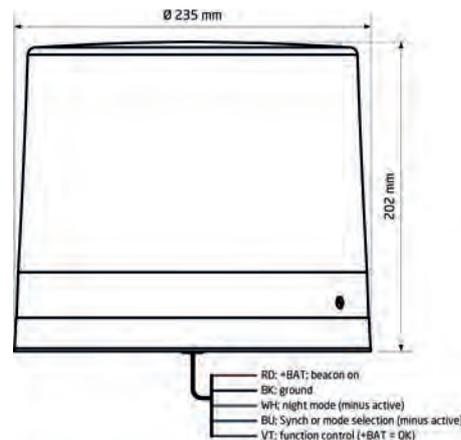
B2 RHODON max Basic

The **B2 RHODON max Basic** is designed for installation on large vehicles. It offers a large illuminated area and can therefore be easily recognized from a distance, despite the high installation location.

Whether single, double, triple or quad flash, the area of application is flexible and the flash pattern can be set according to customer specifications.

All lightning patterns are approved according to **ECER65 TB2**.

Several **B2 RHODON max Basic** can be synchronized.



Name	Code
B2 RHODON max Basic	008520100651
6° inclined gasket for beacon B2 (foam rubber)	008520009652



- Simple construction
- 36 high-performance LEDs
- 12/24 V capable
- Day / night approval (class 2)
- Single, double, triple and quadruple flash adjustable
- Fastening in accordance with DIN14620, "B2" 200 mm bolt circle using 3 screws in a 120° arrangement
- Function control output
- Can be synchronized with other beacons
- Approved according to ECE R65 TB2



TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12 / 24 VDC (10...30 VDC)
- **Current consumption:**
 - at 12 V: 1,9...2,9A
 - at 24 V: 1,1...2,0A (depending on adjusted flash mode)
 - **IPEAK:** < 5A
- **Amount of LEDs:** 36 high power LEDs
- **Flashing modes:** single-, double-, tripple-, quad-flash - Acc. ECE R65 TB2
- **Luminous intensity:** 140 cd in night mode 280 cd in day mode
- Mounting built on mounting, 200 mm bolt circle (acc. DIN14620, B2)
- **Cable:** approx. 400 mm
- **Ambient temperature:**
 - Storage / transport: -40°C to +90°C
 - Operation: -30°C to +50°C



#2 - EQUIPMENT FOR EMERGENCY VEHICLES

GYROLED® Classic - Class 1



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

DELIVERY
24^H

- Rotating or flash LED lights (*double flash*)
- Polycarbonate cover, available colours: blue
- **Power supply voltage:** from 10 to 30V DC
- **Operating temperature:** -40°C to +85°C
- **Consumption at 12 V:** 900mA
- **Consumption at 24 V:** 450mA
- **Height:** 64.4 mm - **Diameter:** 105.6 mm (*single light*)
- **Height:** 109.4 mm - **Diameter:** 146 mm (*ISO*)
- **Gyroled:** Protection index 45



● BLUE

Mounting	N°	Rotating	Flash
Single	1	21906	21908
ISO	2	21930	21932
ISO XS	-	27001	29167
Pipe-mount	3	21934	21936
Magnetic CLP	4	21938	21940
Gyroled Magnetic CLP with remote control	5	30371	30372
Magnetic Jack plug	6	22275	22276
Stick with CLP	7	24485	24486
Battery powered magnetic* (12V charger)	8	23398	23399
Battery powered magnetic* (220V charger)	8	27157	27158
XL-ISO	9	23406	23408
XL-Pipe-mount	10	23407	23409

* The warranty does not cover consumables such as the battery

Anti-glare half cover

Anti-glare half cover

In black ABS
for Class 1 Gyroled

Code
22779



CLP: Cigar Ligther Plug
Light accessories, see page 77



Special
airport Gyroled
> see page 68



Special motorcycle
equipment
> see page 34



1
Single
● ●



2
ISO
● ●



3
Pipe-mounted
● ●



4
Magnetic CLP
● ●



5
Magnetic CLP
with remote controlled
● ●



6
Magnetic
with Jack plug
● ●



7
Stick with CLP
● ●



8
Battery Powered
Magnetic
● ●



9
XL-ISO
● ●



10
XL-Pipe-mounted
● ●



#2 - EQUIPMENT FOR EMERGENCY VEHICLES

DUAL COLOUR LED LIGHTS

L56 - Class 2

Ultra powerful double light !

The L56 double light is a light specially designed for vehicles and users preferring wide lights for a larger light scattering angle.



WARRANTY
3
YEARS

DELIVERY
24H

APPROVED
R65
EUROPE

- Large size light for installation in grille or mounting on the corners of the vehicle body.
- Multiple color combinations possible
- Different flashing modes included
- R65 class 2 approval
- Simple and robust design
- Double reinforced lens
- Easy to install
- Horizontal mounting



TECHNICAL SPECIFICATIONS

- **Lens:** Polycarbonate
- **Housing:** Aluminium, black coating
- **Colour LEDs:** Blue, Amber, White
- **Colour lens:** Crystal
- **No. of LEDs:** 8+8 LED
- **Voltage:** 10-30V
- **Operating temperature:** -40°C - +85°C
- **Dimensions :** 140,2 x 50,5 x 20 mm
- **Enclosure rating:** IP67
- **Synchronizing:** 12V
- Includes 2 m cable
- Warranty 3 years

APPROVALS

- ECE R65 class 2, ECE R10

L56 LED LIGHTS - Class 2

	Code
L56 blue	33762
L56 blue-Amber	33763
L56 White-White	33764

(Sold by unit)





L52 dual colour



TECHNICAL SPECIFICATIONS

WARRANTY
3 YEARS

DELIVERY
24 H

APPROVED
R65
EUROPE

- Polycarbonate lens
 - Black extruded aluminium box
 - Colour blue or amber
 - Number of LEDs 6 High Power LEDs
 - 2 metre cable
 - Surface mounting
 - **Power supply voltage:** 10-30V
 - **Dimensions:** 113x28x9mm
 - Protection index IP 67
 - Consumption 1A at crest at 13.8V
0.5A average at 13.8V
- 0.5A at peak at 27.6V
0.25A average at 27.6V
- **Synchronisation:**
12V: Up to eight LED lights
24 V: Up to four LED lights
 - **Contents of the kit:**
1 x L52 light, 1 x watertight seal,
1 x assembly kit.

APPROVALS

- R65 class 2 photometry
- Horizontal and vertical in blue and amber
- EMC according to the ECE R10 standard

LED L52	Code
L52 dual colour blue/amber	31628
L52 dual colour blue/red	31629
L52 dual colour blue/white	31630
L52 dual colour blue/green	31631

Also available in amber, see page 99

DUAL
COLOUR



L52 dual colour



L52 dual colour • windscreen brackers**

Fixating	Colour	Code
1 x LED L52 dual colour with windscreen removable brackers (CLP) - Small model for commercial vehicles : 144x74x30mm	Blue-red	33069
	Blue-amber	33070
	Blue-white	33071
1 x LED L52 dual colour light* with Cigar Lighter Plug and suction pads mounting	Blue-red	34061
	Blue-amber	34060
	Blue-white	34062

* Alternating flash mode only
3 modes (blue only, other colour only, alternating)

**CLP: Cigar Lighter Plug



L52 light removable
with suction pads mounting

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

MONO COLOUR LED LIGHTS

L52 - Class 2



TECHNICAL SPECIFICATIONS

GARANTIE
3
ANS

LIVRAISON
24^H

HOMOLOGUÉ
R65
EUROPE

- Polycarbonate lens
- Black extruded aluminium box
- Number of LEDs 6 High Power LEDs
- 2 metre cable
- Surface mounting
- **Power supply voltage:** 10-30V
- **Dimensions:** 113x28x9mm
- Protection index IP 67
- Consumption 1A at peak at 13.8V
- **Synchronisation:**
12V: Up to eight LED lights
24 V: Up to four LED lights
- **Contents of the kit:**
 1 x L52 light, 1 x watertight seal,
 1 x assembly kit.

APPROVALS

- R65 class 2 photometry
- Horizontal and vertical in blue and amber
- EMC according to the ECE R10 standard

LED L52 - Class 2	R65 Light	Code
L52 Blue 10-30V	Horizontal	27656
L52 Blue 10-30V	Vertical	27658

(Sold by unit)

L52 mountings grill

Mounting	Code
1 Standard bracket x1	29599
2 2x bracket kit*	29600
3 Self-adhesive mounting**	29654

* Light not included



L52



L52 - Permanent windscreen mountings



Permanent mountings	Code
Blue L52 light kit with windscreen mounting (large model for LV - 155x89x35 mm)	30825
Blue L52 light kit with windscreen mounting (small model for UV - 144x74x30 mm)	30826
4 L52 windscreen mounting (large model for LV - 155x89x35 mm)	30827
5 L52 windscreen mounting (small model for UV 144x74x30 mm)	30828

L52 - Removable windscreen mountings



Mounting	Colour	Code
1 x L52 removable light (CLP and adhesive Velcro mounting)	Blue	31010
6 Kit 2 x L52 lights with CLP and removable adhesive Velcro mounting	Blue-red	31016
	Blue-white	31017
	Blue-amber	31018
1 x L52 light CLP and suction pads mounting	Blue	34063

**CLP: Cigar Lighter Plug



L52 light removable
with suction pads
mounting



APPROVED
R65
EUROPE

Double L52 - Class 2

Double LED L52 Light kit - Class 2	R65	Code
L52 Amber/Blue	Horizontal	29185
L52 Blue/Blue	Horizontal	29187
L52 Amber/Blue	Vertical	29188
L52 Blue/Blue	Vertical	29189
Double L52 light bracket	-	28103

(Sold by unit)

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

L54 - Class 2

The newly designed L54 lights are specially adapted for mounting in small spaces. Despite its reduced size and its extra-flat profile for discrete mounting, the L54 light has an output light power that reaches the lighting performances required by the R65 Class 2 standard.

A selection of 2 kits: single kit (1 light + 1 unit) and double kit (2 lights + 1 unit)

- **Customised brackets** for grille-mounting on Vito, Sprinter and T6 models.
- **Universal brackets** also available as accessories.



- Top-end LED performances
- Very thin lights for installation on the grill
- Long service life
- Available in several colours
- Mounting for easier installation
- Low energy consumption
- EMC R10 and ECE R65 Class 2 approved



TECHNICAL SPECIFICATIONS

- **Colours:** blue, amber, red, crystal
- **Number of LEDs:** 6 high intensity LEDs
- **Mounting:** surface
- **Power supply:** 9-32 volts DC
- **Temperature:** -40°C to +85°C
- **Dimensions in mm (L x w x h):** 85 x 36 x 15



L54



Name	Kit	Code
L54 LED light blue 10-30V	Single	29980
L54 LED light blue 10-30V	Double	29981
1 Universal bracket (per pair)	-	30016
2 Bracket for Volkswagen T6 (per pair)	-	30014
3 Bracket for Mercedes Vito/ Sprinter (per pair)	-	30015
4 Mounting kit for directional L54 light	-	30255

Vehicle-specific holders are always adapted to the latest models, **ask us**.



Meteorit



TECHNICAL SPECIFICATIONS

WARRANTY
3 YEARS

DELIVERY
24h

APPROVED
R65
EUROPE

- **Power supply:** 10-30V
- **Protection index:** IP67
- Plastic light body
- Supplied with black ABS casing
- **Dimensions (L x w x h) in mm:** 3 LED METEORIT: 89,4 x 34 x 22
- **Dimensions (L x w x h) in mm:** 4 LED METEORIT: 116,9 x 34 x 22
- **Flash modes:** single R65 flash, double R65 flash, and quad R65 flash
- Can synchronise up to 8 lights

APPROVALS

- Approved R65 Class 1 (Blue)



Meteorit



Bracket



4 LED Meteorit

Meteorit 3 LED	Code
Meteorit : Blue	28136
Meteorit light bracket	28982
Self-adhesive bracket	29655

(Sold by unit)

Meteorit 4 LED	Code
4 LED Meteorit - Blue	28140

(Sold by unit)

Quartz-L88



Quartz



TECHNICAL SPECIFICATIONS

DELIVERY
24h

APPROVED
R65
EUROPE

- The smallest LED light with R65 approval - Ø < 30 mm!
- An extremely powerful, compact light
- Excellent lighting performances. Minimum consumption
- New lens technology for LEDs.
- GORE-TEX membrane for evacuating the build-up of possible moisture
- The light is delivered ready-to-install and includes a flashing system built into the wiring



TECHNICAL SPECIFICATIONS

- **Lens:** Polycarbonate, non UV-sensitive • Lens colour: Blue or Amber
- **Number of LEDs:** 4 High Power LEDs • **Harness:** 3m (330 mm between the light and the system)
- **Mounting:** Embedded • **Power supply:** 9-32 volts DC
- **Operating temperature:** -40° + 85° C
- **Consumption:** 0,4A average at 13,8V (1A at peak) - 0,2 A average at 27,6V (0,5A at peak)
- **Dimensions:** Light: Ø 29 x 37,4 x 24,15 mm - The unit: 149 x 24 x 17,7 mm.
- **Synchronisation:** 12V: Up to eight LED lights - 24V: Up to four LED lights



Quartz
bracket

Name	Code
Blue QUARTZ-L88 grille light	25572
90° Stainless-steel mounting for QUARTZ-L88 light	25748
QUARTZ-L88 plastic bracket for light	27939

(Sold by unit)

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



L104 Half beacon

The half-beacon L104 supports or replaces the main beacon on the front and / or rear of the vehicle.



- Finished angles to meet HT approval
- Perfect alternative for meeting HT approval when lightbar installation is not possible
- Easy installation
- 3 different variants to fit several vehicles

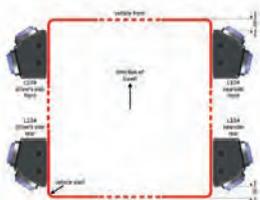


TECHNICAL SPECIFICATIONS

- **Lens:** Polycarbonate
- **Housing:** aluminium, black coated
- **Colour LEDs:** Blue • **Colour Lens:** Clear
- **No. of LEDs:** 2x6 LEDs
- **Cable:** 2x2m
- **Voltage:** 10-30V
- **Consumption:** ~1A at 13,8V, 2A peak / ~0,5A at 27,6V, 1A peak
- **Dimensions in mm:**
 - 1: 120 x 63,9 x 64,3 mm
 - 2: 118,5 x 57,4 x 43,8 mm
 - 3: 115 x 46 x 42 mm
- **Operating temperature:** -40°C +85°C
- **Synchronizing:** 12V: max 12 LEDs - 24V: max 8 LEDs

APPROVAL

- ECE R65 Class 2, ECE R10, EMC



Side mounting



Built on mounting
front / rear



Corner mounting

Name	Code
L104 R65 Class 2 - Corner mounting	33426
L104 R65 Class 2 - Side mounting	33427
L104 R65 Class 2 - Front/rear mounting	33428

Backlit sun visor

LED backlit sun visor with custom branding: text or logo of your choice Product:



WARRANTY
3
YEARS

DELIVERY
24h

APPROVED
R65
EUROPE

Complete kit content:

- 1 LED backlit panel 6700k with cable and 5.5 x 2.1mm female connector
- 1 power cable with 5.5 x 2.1mm male cigarette lighter connector
- 1 extension cable of 2m with male and female ends of 5.5 x 2.1mm
- 3 pairs of Velcro strips: 30cm to be fixed on the LED backlit panel
*45cm to be fixed on a sun visor of a standard vehicle * 60cm to be fixed on a sun visor of a bigger vehicle (*utility type*)



TECHNICAL SPECIFICATIONS

- **Housing:** polycarbonate
- **Voltage:** 12V
- **Maximum output current:** max. 700mA
- **Dimensions :** 30 x 10,6 cm
- **Weight:** 187 gr
- **Color temperature:** 6700 K
- **Approval:** ECE R10
- **Product origin:** Europe
- **Warranty:** 3 years

Name	Code
Backlit sign with POLICE text	32101-02P
Backlit panel with text CUSTOMS	32101-02D
Backlit panel with other text (To be specified when ordering)	32101-02



#2 - EQUIPMENT FOR EMERGENCY VEHICLES

MOTORCYCLE EQUIPMENT

DIPA motorcycle lights - Class 2

TECHNICAL SPECIFICATIONS

NEW



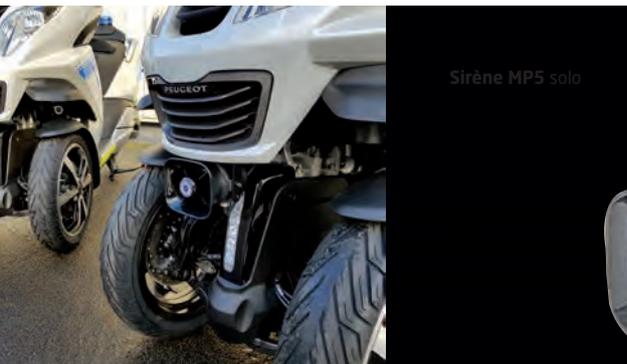
- Power supply voltage: 10-30 V
- Power: 18 W
- Colour: blue
- Operating mode: double flash
- Angle: wide angle (+30° up to -90°)
- Regulations: cat. XB2, R10 (Type: DIPA MX150-B)
- Dimension without mounting (l x d x h): 150 x 61 x 40
- Dimension with mounting (l x d x h): 150 x 120 x 40
- Weight: 300 g
- Operating temperature: -40°C to +85°C
- IP Protection index IP65
- Synchronisation: yes
- Waterproof connectors included

Name	Code
DIPA motorcycle lights - blue (per pair)	31117
DIPA motorcycle lights - blue (singly)	31894
DIPA motorcycle lights - red (singly)	31893
DIPA motorcycle lights - amber (singly)	32415



DIPA Motorcycle lights





Sirène MP5 solo



MP5 solo siren



- Loudspeaker with built-in siren
- Compact and powerful



Detailed technical specifications, see page 57

MP5 solo siren

Available tones	MP5 SOLO 12V
WAIL	26677
YELP	
HI-LO	

Motorcycle mast



- Lightweight, strong
- Polycarbonate mast
- Black matt colour
- Composed of three elements
- **Dimensions (in mm):** diameter: 42, 36, 30 / Height: 660 -1270
- Mounting using a collar and M6 fixing screws
- **Weight:** 1.3 kg



Motorcycle Mast

Mounting	Rotating	Flash
Motorcycle mast - blue	23136	23491
Motorcycle mast - amber	23556	23557

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



► **Integrated** solutions

THE SIGNALLING SOLUTION OF THE FUTURE! CHANGE YOUR VEHICLE DESIGN.

The Standby-Group, the light signalling specialist, offers to assist you in the development of integrated signalling solutions.

These solutions make it possible for your vehicles to stand out using a specific design while complying with all applicable signalling standards and keeping a high level of safety for public highway workers.

The Standby-Group can accompany you in the different integration phases for these solutions:

- 1- Creation of the **specifications** for the suitable signalling, compliant with the regulations applicable in Europe
- 2- Creation of the **design** with your teams
- 3- **Validation** by the bodies accredited to approve integrated signalling
- 4- Supply of **bodywork** elements
- 5- **Supply of signalling elements:** lights, flashing system, control system

Don't hesitate to get in touch!





Examples of completed installations

L51 Range

The L51 range is a group of powerful, small lights specially designed to be embedded on emergency vehicles.



- Top-end LED performances
- Products optimised for built-in signalling solutions
- Long service life
- Mounting for easier installation
- Low energy consumption
- EMC R10 and ECE R65 Class 1 and 2 approved
- Non-waterproof light



TECHNICAL SPECIFICATIONS

- **Colours:** blue, amber, red, green, crystal
- **Mounting:** embedded
- **Power supply:** 9-32 volts DC
- **Consumption:** ~1A at 12V
- **Dimensions in mm:**
 - Height: 46.5
 - Width: 42.6
 - Depth: 22.8 - 36.5



LED L51 Light	Code
L51 Amber / 10-30V	28697
L51 Red / 10-30V	28698
L51 Green / 10-30V	28699
L51 Blue / 10-30V	29859
L51 Crystal / 10-30V - Side floodlight	29134
L51 Crystal / 10-30V - Zone floodlight zone	29135

LIGHTBARS

W3 lightbar



- Aerodynamic design with the lowest air resistance (*Cd value*), therefore extremely low noise level
- Main beacon in different flash modes
- StVZO-approved indicators to the front and/or to the rear
- Rear warning systems in various designs
- High power front flash
- Alley lights as standard, radiation 0° or 15° downwards
- Instead of the alley lights, a command light in red or green can be installed.
- Work lights to the front and/or to the rear.
The brightness and the shape of the lenses can be configured according to customer requirements.
- LED command light
- Light sensor for automatic day / night shift
- "Flasher Red" to support the police stopping process
- Blue light extension front and rear
- Additional amber rotating beacon
- Charge light to indicate that the vehicle is connected to the charging station
- Martin sound radiators on the roof
- Loudspeaker on the underside of the bar

When it comes to designing the software, we also offer you numerous options:

- Control via our bus system, self-service bus, CANOpen (CiA447), Inomatic, EDSC or also in parallel
- Design of the lightning pattern
- Night reduction in rotating light mode
- Personal configuration of the functional processes and priorities



TECHNICAL SPECIFICATIONS

- Blue light expansion
- Rear-warning-system
- Direction indicators and hazard lights
- Position and brake lights
- Headlights to the front, to the rear (as standard on the sides)
- "Flasher Red" to support the police stopping process
- Command light to identify the command of operations



W3 SPLIT



The light bar W3 Split Bar is manufactured and programmed by hand according to your wishes.

This type of beam is particularly suitable for large vehicles, such as ladder trucks, where no light bar can be used in the central roof area. In this variant, the control unit is installed in the vehicle.

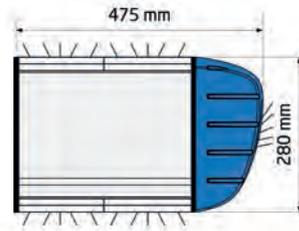
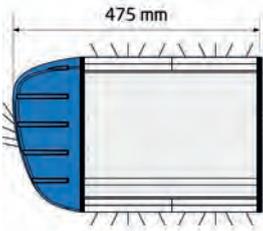


WARRANTY
3 YEARS

DELIVERY
24h

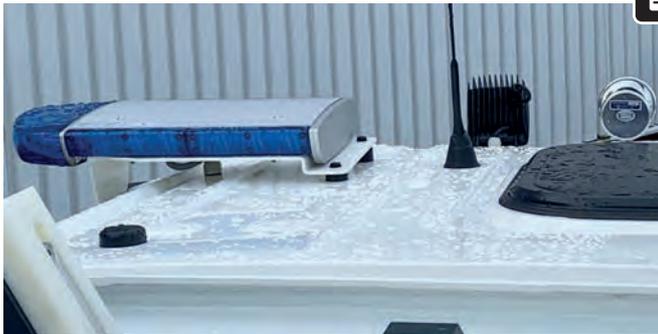
APPROVED
R65 EUROPE

- Main beacon in different flash modes
- StVZO-approved indicators to the front and / or to the rear
- High power front flash
- Standard Alley lights
- Work lights to the front and / or to the rear. The brightness and the shape of the lenses can be configured according to customer requirements.
- LED command light
- Light sensor for automatic day / night shift
- "Flasher Red" to support the police stopping process
- Blue light expansion
- Additional amber rotating beacon
- Charge light



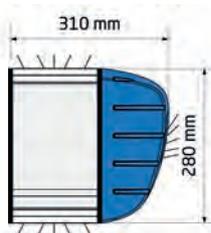
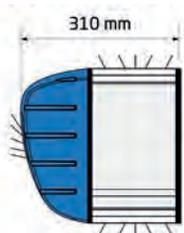
TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12/24 VDC (9...14,4 / 21,6...30 VDC)
- **Current consumption:** max. 15 A (peak 30 A for < 50 ms)
- **LED-colour (corners):** blue, amber, blue/amber, red
- **Dome-colour (corners):** clear, blue
- **LED-colour (middle part):** blue, blue/amber, blue/white, blue/green, blue/red, amber, amber/white, amber/red, red, white
- **Lens-colour (middle part):** clear, blue, with/without spot-optic
- **Special functions:**
 - Amber outer modules: indicator
 - Red rear: brake- and position light
- **Alley-lights:** laterally left and right, 15° turned to front
- **Cable:** 4.5 m
- **Height:** corners: 65 mm middle - part: 47 mm



EMERGENCY VEHICLES

W3 SPLIT MINI



Z2 lightbar



PRODUCT

- Main beacon with up to 1300 cd to the front and rear
- Indicators to the front and / or to the rear, the rear indicator modules can also be used in parallel as a rear warning system
- Rear warning systems in various designs
- High power front flasher
- Alley lights in various shapes and orientations
- Work lights to the front and / or to the rear.
The brightness and the shape of the lenses can be configured according to customer requirements.
- LED full matrix displays to the front and/or rear
- LED command light
- Light sensor
- Infrared module (*helicopter identification*)
- "Flasher Red" to support the police stopping process
- Blue light expansion
- Additional redating beacon in amber
- Holder for additional clip-on beacon
- Charge Light
- Brackets for Martin horns on the roof of the Z2
- Installation of a Martin compressor in the Z2
- Public Address option
- All common signals (*D, NL, S, F, A, CH, I*) as well as US signals (*PEAK, YELP, WAIL, H-ILO, AIRHORN*)
- Free choice of colours for the housing
- Control via our bus system, CIA-447, Fire -CAN, Inomatic, EDSC or also in parallel
- Design of the lightning pattern
- Night reduction in redating light mode
- personal configuration of the functional processes and priorities
- Column circuit
- Configuration of the texts
- and much more

TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12/24 VDC
- **Available dome-colours**
 - upper dome: blue, amber, red blue,
 - lower dome: amber, clear
- **Weight:**
 - 10 kg (*950 mm only light*)
 - 17 kg (*1370 mm full functions*)
- **Ambient temperature:**
 - Operation: -40 °C to + 70°C
 - Storage / transport: -40 °C to + 70°C
- **Protection class:** IP 55
- **Dimensions (h x d, length acc. variant):** 127 x 346 mm
- **Length:** stepless from 950 up to 2100 mm
- **Standard-lengths:** 950, 1020, 1080, 1150, 1220, 1370, 1550, 1900, 2100 mm

APPROVALS

- LED-modules blue: E1 002678 (*light*)
- LED-modules amber: E1 003104 (*light*)
- indicator front: E1 013122 (*light*)
- indicator rear: E1 013123 (*light*)
- **MS-350:** W 25042 (*acoustic*)
E1 034705 (*EMC*)



Brackets for lightbars Z2



Brackets Z2 set VW T6.1
PN: 50218400010



Universal brackets Z2 set
PN: 50228400020



Brackets Z2 140, MB Vito/Sprinter
PN: 5023843010



Brackets Z2 IVECO Daily set
PN: 50228400010



Universal rubber gasket for Z2
95, 100, 110, 115,
120, 140, 155, 190

Z2 mini / micro

The Z2 mini/micro is designed for use on large vehicles and can be set up on the corners of the vehicle or in the middle area.



- Main beacon with up to 1300 cd to the front and rear (*mini*)
- With 16 (*micro*) or 32 (*mini*) high-performance LEDs
- Indicators to the front and / or to the rear, the rear indicator modules can also be used in parallel as a rear warning system
- side work lights in various shapes and orientations
- LED command light • Light sensor
- Infrared module (*helicopter detection light*)
- Charge Light and much more

When designing the software, we offer you the following options:

- Control via our bus system, CAN-Open, Fire-CAN, Inomatic, EDSC or also in parallel
- Design of the lightning pattern
- Night reduction in rotating light mode
- Column circuit and much more



TECHNICAL SPECIFICATIONS

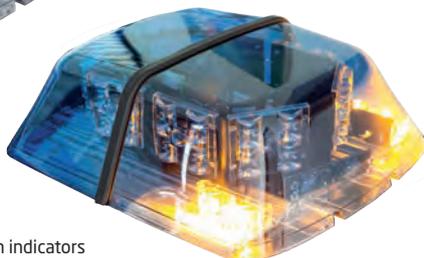
- **Operating voltage:** 12 / 24 VDC
- **Current consumption:**
 - Warning lights: 8 A (Z2 *mini*) and 4 A (Z2 *micro*)
 - Alley lights
 - Indicators
- **Amount of LEDs (*warning light*):** 32 (Z2 *mini*) and 16 (Z2 *micro*)
- **Dimensions:** 413 x 346 x 127 mm
- **Ambient temperature:**
 - **Operation:** -25°C to +70°C
 - **Storage / transport:** -40°C to +70°C
- **Addons:** indicators, warning lamps alley lights

APPROVALS

- E1 002678 (*light, blue*)
- E1 013122 (*light, indicator front*)
- E1 013123 (*light, indicator rear*)
- ~~~ W 25042 (*acoustic*)
- E1 034705 (*EMC*)



Alley lights



Direction indicators
and hazard lights

NEW FEATURES VEGA FX LIGHTBAR

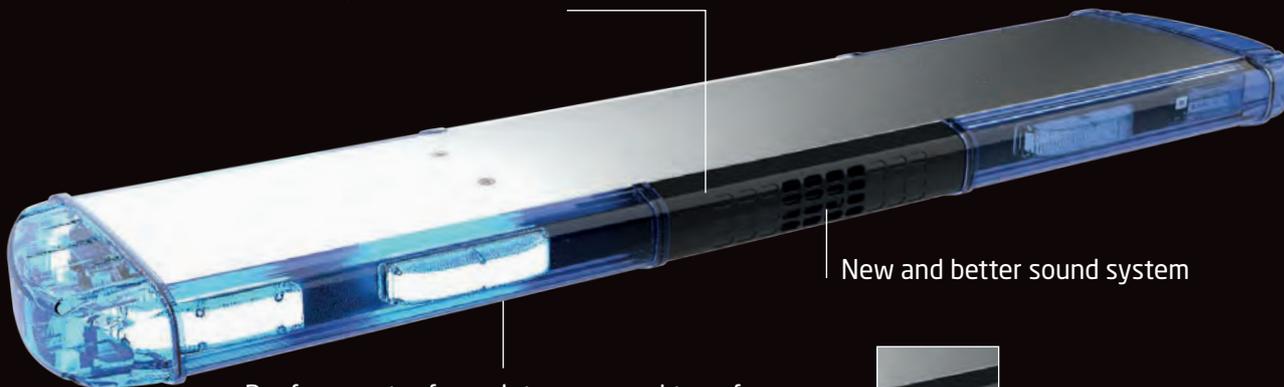
**NEW
2022**

**AVAILABLE
IN
JUNE**

Evolutions and **improvements** for the 2022 edition



New design with removing the boss of the speaker



New and better sound system

Roof connector for maintenance and transfer to another vehicle



Plaster cable for installation on the bodywork



Ease of installation and reduced vehicle drilling

A choice of fixtures adapted to the different types of vehicles on the market

Multiple options for a greater modularity.

> Compose your lightbar according to your needs.



H1/P1 Emergency Button

We advise you to use it
but it is not mandatory
> see page 140

VEGA FX RANGE

CLASS 2



- Optimal installation with adjustable fixing system
- Maximum sound power thanks to its position on the top of the vehicle
- No need to mount the siren and loudspeaker in the vehicle
- Extra flat lightbar
- Aerodynamic, a height of only 67 mm
- Easier access to underground car parks thanks to its flat shape
- Reduction of vehicle's aerodynamic drag and therefore its fuel consumption

- R65 Class 2 approved, EMC (R) as per R10 with a possible extension of ... on electrical vehicles (cars)
- Acoustic approval of sirens validated by the UTAC: police, military police, fire department, First response,
- Robust, aluminum frame and polycarbonate lens
- high intensity LED light power
- Very low electrical consumption
- Cruise mode built-in



TECHNICAL SPECIFICATIONS

- **Lens:** polycarbonate
- **Base and roof:** aluminium
- **Available colors:** blue, Amber, red, green, crystal
- **LED colors:** blue and Amber
- **Flashing mode:** double flash (R65), alternating left and right
- **Power supply:** 10-30 V
- **Temperature:** -45°C to +80°C
- **Consumption:** 4,3 A to 13,5V
- **Dimensions of the 1,20m lightbar (en mm):**
- Height x Length x Width: 67 x 267 x 1200
- **Dimensions of the 1,60m lightbar (en mm):**
- Height x Length x Width: 67 x 267 x 1600
- Maximum height with mounting: 15,4 cm
- **Corner lights:** 4 modules of 9 LED in blue
- **Approvals:** ECE R10-06. R65 Cl.2, KR41, NF 12352 L2H



#2 - EQUIPMENT FOR EMERGENCY VEHICLES

VEGA FX BASIC



Name	Code
<ul style="list-style-type: none"> • 1,20m lightbar • 4 corners blue lights R65 Class 2 • 2 front blue lights - siren and loudspeaker • Output to control the warning lights • Controlled by wired or Standby-Mercura control system • 12/24V - Flat cable of 3,5m 	34862

Find the detailed list of available options on page 46-47

VEGA FX BALISAGE



Name	Code
<ul style="list-style-type: none"> • 1,20m lightbar • 4 corners blue lights R65 Class 2 • 2 front dual color blue/Amber lights • 2 Rear dual color blue/Amber lights • Siren and loudspeaker • Output to control the warning lights • Controlled by wired or Standby-Mercura control system • 12/24V flat cable of 3,5m 	34863

Find the detailed list of available options on page 46-47

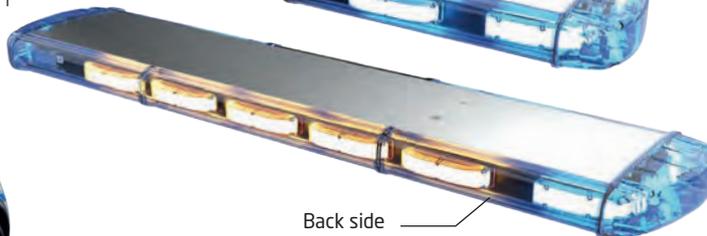
VEGA FX DÉFILEMENT



Front side



Back side



Name	Code
<ul style="list-style-type: none"> • 1,20m lightbar • 4 corners blue lights R65 Class 2 • 2 front dual color blue/Amber lights • 5 Rear dual color blue/Amber lights • Siren and loudspeaker • Output to control the warning lights • Controlled by wired or Standby-Mercura control system • 12/24V flat cable of 3,5m 	34864

Find the detailed list of available options on page 46-47

VEGA FX VMP



Back side
with VMP option

+



Touch control
panel

Name	Code
<ul style="list-style-type: none"> • 1,20m lightbar • 4 corners blue lights R65 Class 2 • 2 front blue lights - siren and loudspeaker • Red coloured LED variable message panel • Panel with 6 limited messages • 2 control • Siren and loudspeaker • Output to control the warning lights • Controlled by wired or Standby-Mercura control system • 12/24V flat cable of 3,5m 	34869

Find the detailed list of available options on page 46-47

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

Detailed presentation of options for VEGA FX

Options for the VEGA FX lightbar		Code
 <p>Public Address + SD cards</p>	<p>Public address function with recording of messages on a SD card: Broadcasting of messages with the microphone integrated in the control box and/or message recorded on micro SD card.</p>	30724
	<p>Siren Loudspeaker and sound generator module for the broadcasting of approved siren tones. Warning: for voice message broadcasting, select the public address option above</p>	34673
	<p>Radio-broadcasting Possible connection of an audio source to the sound system for broadcasting outside the vehicle. > For example : retransmission to the outside of the messages received from the command post.</p>	34892
	<p>H1 Emergency button This item gives a simple and direct access by "punch" effect to the command of departure in intervention.</p>	 32188
	<p>Lightbar connector New generation of connector, for maintenance and transfer to another vehicle.</p>	34677
	<p>Flat cable 7m For installation on utility vehicle > <i>version without lightbar connector</i></p>	35007
	<p>Flat cable 7m For installation on utility vehicle > <i>version without lightbar connector</i></p>	34676
	<p>Flat beam 3,50m With lightbar connector (<i>vehicle side</i>)</p>	34207
	<p>Length 1,60m for van or truck as standard the lightbars are 1.20m, they are adapted to light vehicles, Van, SUV and light commercial vehicles. Other dimensions are available:</p> <ul style="list-style-type: none"> • 1,60 m : for commercial vehicles such as vans or trucks • 1,94 m : ramps designed for vans equipped with a cell. Length available on request. 	34873 34874 34875 34872

Options for VEGA FX lightbars		Code
	Variable message panel: Panel with 100 messages controlled by touch control panel. Easy to use, up to 100 recorded messages.	30723
	Alley lights 2 white led spotlights, on the sides of the lightbar to light the side areas to the vehicle during night patrols.	30787
	Message panel on the front of the lightbar	30830
	Takedown lights 2 white led spotlights on the sides of the loudspeaker to light the front side of the vehicle during night patrols.	34133
	Silk-screened text with UV protection. Black text on a white background.	25317
	Backlighting of the text for night vision. <i>(front and/or rear installation depending on the configuration)</i>	34660
	12-key control panel Control box directly compatible with the lightbar. Is connected to the CAN bus of the lightbar <i>(article number according to the lightbar)</i> .	34866 34867 34868
	Wired control interface This interface allows the control of the lightbar with a traditional control button.	34870
	Message programming interface. With this interface and the software on our website, you can edit yourself the messages of the LED panel of the VEGA FX .	25581
	Additional power block to control other elements <i>(Ex: blue light repeater, radio power supply...)</i>	34865

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



	MODEL		VEGA	M	ORION	W3	Code	
	Complete adhesive fixation for flat lightbars	NEW	To stick	YES	-	-	YES	34798
	Universal bracket (with matt black screws)		By roof drilling	YES	YES	-	YES	15635

Verify the compatibility with your vehicle. **Consult us for any question.**



Video Option for Vega lightbar

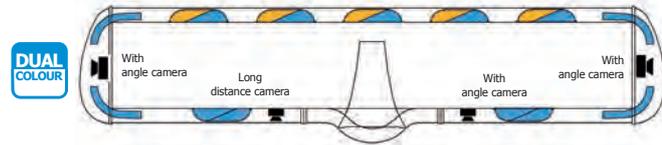
A VIDEO option is available to complete the VEGA lightbar functions.

In this version, a lightbar has 4 integrated video cameras, an inside camera and a recorder. This unit can record situations outside and inside the vehicle.

The videos, GPS coordinates and the sound for the inside camera are kept on the recorder. This data is encrypted. It can then be downloaded and decrypted when the vehicle returns to its command post.

Using the 4G connection, the command post can have a real time view of the vehicle images, as well as its GPS position.

This tool can be used to secure your teams and provide proof that an intervention was carried out properly.



Illustrated model: VEGA lightbar with integrated siren, rear scrolling (5 blue/amber dual-colour lights) and video option (4 integrated cameras).



Name	Code
120 cm VEGA lightbar with roof connector	30716
Siren option	30788
Public Address option	30724
VIDEO Video opt. 4 cameras with XXL control panel	30717
Optional 5th inside camera	30719
Video software / month / lightbar	30720



4 camera video option with XXL control panel

4 cameras built into the lightbar.

2 cameras at the front:

- 1 wide angle camera
- 1 long distance viewing camera

2 side cameras: wide angle vision

- DVR recorder onto an SD 64 Mb card
- 4G data transmission module to the user
- Vehicle location using the GPS Module
- Timestamp embedded in the video
- Lightbar control and image viewing on the control panel XXL touch screen.

Option 5th inside camera

Camera with microphone to monitor vehicle passengers following an arrest.

Video software

Real time access software to the vehicle images and its location using a secure server. It also makes it possible to save the vehicle recordings using the 4G connection.

SIM card not included, at the user's expense.



#2 - EQUIPMENT FOR EMERGENCY VEHICLES

VEGA* - Class 2



TECHNICAL SPECIFICATIONS



- **Base and roof:** Aluminium
- Polycarbonate blue or amber casing
- R65 mode - Class 2 double flash
- Cruise function
- **Rear beacon scrolling:**
warning, right, left, inside, outside
- **Dimensions (L x w x h in cm):** 120 or 160 x 26.7 x 6.7 cm
- **Maximum height with mounting (in cm):** 15.4 cm

- Supplied with a 5 metre harness and adjustable mountings
- Exit on the passenger side (*right*)
- Power supply 12/24V
- **Maximum consumption:** ~4.3 A at 13.5V
- R65 approvals (E2) Class 2, EMC [R] as per R10
L2H beacon lights according to the NF 12352 standard
- 3 years warranty

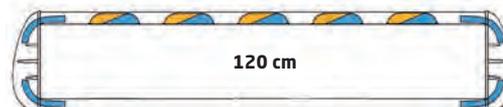
Length	Code with RC	Code without RC
120 cm	29226	28545
160 cm	29227	28546



Length	TD	AL	Code with RC	Code without RC
120 cm	Yes	Yes	29230	28549
160 cm	Yes	-	29231	28550



Length	TD	Code with RC	Code without RC
120 cm	Yes	29232	28551
160 cm	Yes	29233	28552



TD: Traffic director • **AL:** Alley lights • **RC:** Roof connector

Control panels, see page 135

* Model without siren



Mini VEGA

APPROVED
R65
EUROPE

WARRANTY
3
YEARS

- Mini lightbar with integrated siren and loudspeakers
- Lightweight, quick and easy to install
- 3 types of available mounts

- Length: 53 cm
- Power supply: 12-24 V
- R65 approved

Flash pattern for mini-vega lightbars: **alternating***

Article Number	LED light	Lens	Tones	Mounting system	Control
31740	Blue	Blue	4 Tones*	Bolted	By wires
31741	Blue	Blue	4 Tones*	Adhesive	By wires
29809	Blue	Blue	4 Tones*	Magnetic	2- button cigar lighter plug
31754	Blue	Clear	4 Tones*	Bolted	By wires
31755	Blue	Clear	4 Tones*	Adhesive	By wires
31756	Blue	Clear	4 Tones*	Magnetic	2- button cigar lighter plug

* Also available with simultaneous flash pattern, please consult us. 4 tones to be indicated with the order.

Control from a public address microphone control panel*

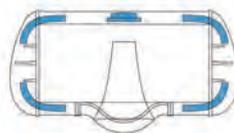


RC	Control panel	Adhesive	Bolted
yes	Handy Export	30260	30261

RC: Roof connector

Control panel included

Also available with standard control panel.



Control panel not included

4-key control panel	Code
For emergency vehicles	30248
For fire & rescue	30249

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

M LIGHTBAR RANGE



Lengths:

- 1.10m lightbars are specifically intended for light vehicles or vehicles with limited roof space
- 1.50 m: intended for utility vans or heavy goods vehicles
- 1.80 m: lightbars designed for vans equipped with a cell.



S : Lightbar with approved siren and 150W loudspeaker built into the lightbar • Siren tone to be indicated

Loudspeaker: With 150W loud speaker built into the lightbar, the siren is not included in the lightbar and must be delivered in addition (see the "Sound" section)

Multi-tone: Some lightbars can have two siren tones (Ex: Ambulance, mobile ICU)



SPA : Lightbar with approved siren and 150W loudspeaker built into the lightbar and control module plus Public Address. The lightbar is supplied with PA system and a "Handy" microphone. To find out about the PA functions, read the "Sound" section

- The module includes a logic input to couple the beacons to the handbrake
- Siren tone to be specified



Warning : Warning mode, the complete amber beacon light unit flashes at the same time (Available on lightbars with amber beacon lights)

Traffic director: Types of amber beacon scrolling: right, left, warning (all the lights flash at the same time) or random (Available on lightbars with amber beacon lights)



Roof connector: Lightbars provided with this option are delivered with a sealed, elbow-shaped roof connector. The vehicle-side cable harness includes a base attached by a locknut. The roof connector allows easy installation and maintenance of the unit. It also allows it to be installed on a second vehicle.



Screen printed : customisable with UV protection **FREE**

Voltage: 12 V for light vehicles and 24 V for heavy goods vehicles. Certain lightbars can support both 12 V and 24 V input voltages.



VMP: Red colour LED message panel - Character height: 60 mm. Automatic switch to Day/Night mode - Message panel length: 580 mm
100 16 x 3 character messages - 7 languages - Message display in static, flashing, alternating or scrolling mode.



CCS pack control not included (contact us).

All the lightbars can be controlled via a conventional installation: switches, relays, fuses or by a Mercura CCS control module. A bag of installation accessories is supplied.



M Lightbar with message panel



- Message display at the back
- Message display towards the front available as an option: "mirror" display legible in the driver's rear-view mirror
- Foreign language display available
- Light power: Gyroled in the lightbar and LED side alley lights
- Approved products
- **Mercura®** technology and quality

APPROVALS

- ECE R65 Class 1
- EMC as per R10
- VMP: N° E2 0511026



Touch control panel

Easy-to-use
Up to 100 messages
7 languages available



LMP Control panel

6 pre-defined messages



TECHNICAL SPECIFICATIONS



- **Dimensions (L x w x h):** 110 x 28 x 13.5 cm*
- **Base and roof:** aluminium
- Polycarbonate blue or amber casing*
- **Alley lights:** Two 4-LED modules*
- 2 or 4 Gyroled Class 1 or 2*
- R65 rotating or flash mode*
- Power supply 12/24 V
- 3 year guarantee
- Supplied with 7 metre harness
- Supplied with black, matt universal, corrosion treated permanent mountings
- Adjustable mounts
- **Available options:** see table opposite

* Depending on the model

Options

Name	Code
Lightbar 1,10m 2 blue Gyroled Cl.1	32407
Roof connector	29964
VPM (100 messages)	29965
LPM (6 messages)	34007
Front message panel	29966
1.50 m long lightbar	29967
+ 2 Gyroled Class 1	29968
2 x Gyroled Class 2	29969
4 x Gyroled Class 2 ¹	29970
2 x alley lights	29971
Siren ²	29972
Public Address	29973
Message programming interface*	25581

¹ Incompatible with 1.10 m lightbar

² Incompatible with front message panel

Gyroleds can be in R65 rotating mode, R65 flash mode, ICAO rotating mode, ICAO flash mode (please indicate with the order)
Please specify the siren tone with the order

* Software interface to change your messages



Length	Colour	VMP / LMP	Gyroled	Mode	Side alley lights	Siren	RC	Code
1,10m	Blue	VMP	2	Rotating R65	Yes	Yes	Yes	29963

RC: Roof Connector

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



ML15

- 2 blue Gyroleds® and 2 amber Gyroleds®
- **Casing:** blue / amber white / amber / blue
- Power supply 12/24V
- Approved R65 Class 1

Length	LS	S	PA	RC	Other	Code CL.1
110 cm						22680
150 cm						22681
110 cm				✓		22682
150 cm				✓		22683
110 cm	✓	✓	✓			22714
150 cm	✓	✓	✓			22715
110 cm	✓			✓		22690
150 cm	✓			✓		22691
110 cm	✓	✓				22684
150 cm	✓	✓				22685
110 cm	✓	✓		✓		22686
110 cm	✓	✓		✓	Multiplexed	24801
150 cm	✓	✓		✓	Multiplexed	25889
150 cm	✓	✓		✓		22687

LS : Loudspeaker • **S :** Siren • **PA :** Public Address • **RC :** Roof connector

Also available in ML32 flash mode - Class 2 as an option > **Contact us**



ORION lightbar



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

- LED technology
- Five times lower consumption than a conventional lightbar
- **Beltless LED beacon:** maintenance free
- ECE R65 approved product
- Lightweight and easy to install
- **Polycarbonate casing:** its high transparency and excellent impact resistance make polycarbonate the best material for the production of automotive lighting components.
- User comfort with a sound level of 0 decibels



TECHNICAL SPECIFICATIONS

- Length 1.20 et 1.40 m pour véhicules utilitaires
- Length 1.20, 1.40 and 1.60 m for utility vehicles
- 2 or 4 blue gyroleds®
- Rotating or flash Gyroled®
- Polycarbonate casing
- **Height:** 115 mm
- **Height with support:** 172 mm - **Width:** 338 mm
- Illuminated text on the rear
- **Input voltage:** 12V/24V
- With 10 metre vehicle cable harness and roof connector
- Delivered with black matt universal permanent mountings

Option :

- **Siren:** ASA tone MP5 (*contact us*)
- Loudspeaker built into front of the lightbar
- Lightbar controlled by a conventional assembly with switch, fuse relays (*not included*)



Length (in cm)	Colour	Gyroled	Mode	Code
120	Blue	2	Rotating	24960
120	Blue	4	Rotating	24962
120	Blue	2	Flash	24964
120	Blue	4	Flash	24966
140	Blue	2	Rotating	24968
140	Blue	4	Rotating	24970
140	Blue	2	Flash	24972
140	Blue	4	Flash	24974

Available in a 1.60 m version
> **contact us.**

> Remember the control panels available in the "Electronics section", see page 135

AUDIO SIGNALLING DEVICES



LOUD-SPEAKERS

They are delivered with the SICMA sealed automotive cable harness kit

	Code
LS 150 W with casing for speaker mounting - 2.5 kg	
White colour	15802
Red colour	18808
LS 150 W - ceramic magnet - round speaker - 2.5 kg	17481
FLAT LOUDSPEAKER 150 W - 2.4 kg	NEW 32082
LS 30 W	26341
Kit 2 x slave LS - 30W as standard	31949
Mounting bracket for LS 150W	20706

WARRANTY
3
YEARS



LS 150
Round speaker



LS 150
white or red speakers



FLAT LOUDSPEAKER



LS 150



LS 30



2 x LS 30

TO BE
USED WITH
MP5
FLASH SIREN



MP5 Flash Siren

One of the smallest sirens on the market.
Easier installation on the vehicle.



MP5 Flash

flash MP5 siren - Multitone several approved tones

Available tones	Code
WAIL	
YELP	26914
HI-LO	



- Amplifier and siren tone generator
- Day/Night control
- Power greater than 120dB
- Power supply 8 to 30 V (*protection from polarity inversions*)
- Fully encased module for protection against humidity
- Automotive standard connection technology (*self-extinguishing*)
- No consumption when not operating
- EMC: n° e2*03*12111 / E2*10R04*12111 compliant
- RoHS compliance
- Protection index: IP66 and IK08
- Operating temperature from -40° to +85°C
- Very compact dimensions: (*h x w x l in mm*): 30 x 71 x 89.6
- Weight: 200 g
- Models compatible with 150W loud speakers

Option :

- Bag of seal-tight connectors - 26921 (*including clips, clip holders and tabs*)

Solo

- 30 W LS (4 Ohms) with built-in siren
- Power greater than 111 dB
- **Dimensions: (L x H x D) in mm:** 111 x 93 x 101
- **Consumption:** 1.9 A at 13.5 V
- **Weight:** 700 g



MP5 SOLO

MP5 DUO



Duo

- 2 30 W LS (4 Ohms) with built-in siren
- Power greater than 117 dB
- **Dimensions: (L x H x D) in mm:** 222 x 93 x 101
- **Consumption:** 3.7 A at 13.5 V
- **Weight:** 1.3 kg

Loudspeaker - Siren Combos MP5 Multitone

Efficient, powerful, compact, easy to install
in any engine compartment, even the most cluttered.



- Loudspeaker with NEODYMIUM magnet
- Multitone
- 4 Tones including reverse BEEP built-into the model
- Input voltage 12 V or 24 V (*Protection against polarity reversals*)
- Day/Night control
- Fully encased module for protection against humidity



SOLO AND DUO TECHNICAL SPECIFICATIONS

- Automotive cable harness standards (*self-extinguishing*)
- EMC: n° e2*03*12111 / E2*10R04*12111 compliant
- No consumption when not operating
- **Protection index:** IP66 and IK08
- Operating temperature from -20° to +85°C
- **Material:** Black ABS

Available tones	Solo 12V	Solo 24V	Duo 12V	Duo 24V
WAIL				
YELP	26677**	29113**	26907**	29106**
HI-LO				

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

K-SR 350

TECHNICAL SPECIFICATIONS

- **Impedance:** 4 Ohms (12V) / 16 Ohms (24V)
- **Power rating:** 60W (80W peak)
- **Operating temperature:** -25°C to +60°C
- **Dimensions in mm:** diameter 109,25x68
- **Weight:** approx. 850g
- **Protection class:** IP54
- **Color:** black

Name	Code
Kit MS-350 (12V), with 1xLS K-SR 350 - 4 Ohms and connections	31601
Kit MS-350 (24V), with 1xLS K-SR 350 - 16 Ohms and connections	31602
Kit MS-350 (12V), with 2xLS K-SR 350 - 4 Ohms and connections	31603
Kit MS-350 (12V), with 2xLS K-SR 350 - 16 Ohms and connections	31604



K-SR 350

MS-350

PRODUCT

- **Based on the latest digital switchgear technology** : the sound pressure level in 3,5m with 2x K-SR 350 is 121dB (A) and with 1 x K-SR 350 115 dB (A).
- Three independently configurable audio inputs (e.g. *microphone, radio and line*) leave nothing to be desired with voice announcements
- 10 control inputs and 2 power outputs. Additional four input / output ports can be configured depending on the application.
Thus, for universal use the controller
- Many tones available, please consult us.

TECHNICAL SPECIFICATIONS

- **Power supply:** 12V / 24V
- **Current consumption:** in standby mode <500 µA, maximum 5 A (without beacon)
- **Operating temperature:** -25°C to +70°C
- **Output power:** 12V: 2x50W (120W max) • 24V: 2x80W (200W max)
- **Protection class:** IP54

APPROVALS

- Acoustic W25050
- EMC E1 047152
- **Dimensions in mm (HxWxL):** 44,6x131x136,6
- **Weight:** approx. 400g



MS-350

A complete control system for warning equipment

CS25 Control System is a complete control system for controlling the basic warning equipment. With the help of extra accessories you can also expand the system to include more advanced features. The **CS25** is available for **12 and 24 V** and with or without **PA function**.

The system can basically control a lightbar, warning lights forward and back, as well as side work lights, high beam flash and siren / microphone (*with PA*). The system also monitors the vehicle's battery status to avoid unnecessary battery use.

The **CS25** consists of a siren amplifier with country-specific sound, 100W speakers, microphone (*with PA*), control panel and a complete 6 meter cable set for easy installation. The main advantages of the system are the smooth installation and easy configuration with switches, and perhaps most importantly its good operability required to cope with the stresses of an emergency vehicle over time. The system is based on our previously very popular Mini Blue, which has been used extensively and is well proven in Scandinavia.

The communication between the units takes place via CAN-Bus, which makes the system very reliable. Clear and illustrative symbols with backlight on the panel make it easy to use even in the dark.

PRODUCT

- Complete control system for all blue light equipment
- Controls many functions of W3 lightbar
- Country-specific siren sounds
- Easy installation
- Everything included as cabling, control panel etc.
- 12 or 24V
- With or without PA function
- Expendable for more advanced features

TECHNICAL SPECIFICATIONS

- **Voltage:** 12V, 24V
- **Weight:** 5,2 kg
- **Interface:** CAN-Bus
- **Inputs:** 9
- **Outputs:** - 4: 1,5A - 1: 750mA
 - 2: 10A - 1: 500mA
- **Operating temperature:** -40°C /+85°C
- **Includes:** E1 Mini Din Panel, 1 siren amplifier, 1 speaker, cabling, microphone (MPA version)

APPROVALS

- ECE R10, EMC

CS 25 Control System ▶



#2 - EQUIPMENT FOR EMERGENCY VEHICLES



MDB 120

Siren and speaker unit built into the number plate



- Siren and loud speaker unit built into the back of the front number plate
- Optimum siren sound
- Quick and easy to install
- Flexible black matt thermoplastic control panel
- Loudspeaker and siren: 115 dB (A) approx.
- Dimensions (L x w x h): 520 x 170.5 x 56.4 mm
- Unit weight: 2.224 kg
- Protection index: IP 54
- Power supply: 12 V / 24 V

Option :

- Side or front LED strengthening lights



MDB 120



Name	Code
Multitone MDB	30173
Multitone MDB & L52 blue side	30174
Multitone MDB & L52 amber side	30175
MDB multitone & L52 blue front	30176
Multitone MDB & L52 amber front	30177
Kit for blue front L52 MDB	30178
Kit for amber front MDB L52	30179

Name	Code
MDB 120 without siren	31951
To connect with:	
• CCS4 LS - See page 136] 150 W version
• SPA NANO 112 - See page 62	
• SPA NANO 112+ - See page 63	
MDB 120 with blue side L52	32103

Also available without built-in siren, with loudspeakers only.

Many tones available

> Please, consult us.

#2 - EQUIPMENT FOR EMERGENCY VEHICLES

NANO 112 Siren Public Address



NEW

APPROVED
UTAC

WARRANTY
3
YEARS



- **Public Address:** Message broadcaster-Amplifier
- 3 messages recorded on an SD card
- **Siren:** Tone Generator-amplifier
- Special light controls
- Control panel with back lit keys
- Engraved keys that do not wear over time
- Easy to install



TECHNICAL SPECIFICATIONS

- Power 3.5A (3 Gyroleds®)
- Compatible with 4 Ohm or 8 Ohm loudspeakers
- Loud speaker output protected from short circuits
- Power output protected from short circuits

PROTECTION

- From polarity reversals and thermal protection
- Detection of open load on the loudspeaker output to guarantee that the siren is present and operating
- Automotive connectors: Coiled 2.12 m cord
- IP42
- Power supply 10-30V
- Operating temperature from -40° to 85°C

APPROVALS

- EMC R10

Name

Bracket for NANO

Code

29474



- **Rebroadcasting or Radio retransmission:** the signal from the transmission RADIO is amplified and re-transmitted over the loudspeaker outside the vehicle during an intervention. The user activates this function using a key on the control panel.*
- **"Park kill"** when the user puts on the handbrake, the siren cuts off automatically.*
- **Automatic start-up** when the vehicle engine is started.*
- **Automatic stand-by** when the vehicle is stopped to avoid running down the battery.*
- The siren and signalling are triggered using the vehicle's horn and/or a pedal (**Team leader pedal**).*

* Available but non compulsory functions, they are activated if the installer has made the necessary connections. See the user and installation manual.



Tone	LS	Code
To be indicated	150 W	CU
To be indicated	30 W	CU

CU: Consult us
LS: Loudspeaker

NANO 112 + Siren Public Address



Loudspeakers and lights not included



Name	Code
Bracket for NANO	29474



TECHNICAL SPECIFICATIONS



- 2 CAN communications ports of which one to connect the control panel/microphone
- 1 analogue LF input (*Low Frequency*)
- 4 logical inputs: > Handbrake, horn, team leader pedal, + accessories or engine running (*for the following functions: Start-up Automatic standby*).

Outputs :

- 1 output 3.5A (Grille lights)
- 1 3.5A output (Grille lights)
- 2 15A outputs (blue, amber LED beacon)
- 6 outputs (amber scrolling)
- 2 3A outputs for alley lights
- 1 6A output for a permanent power supply (Radio)
- Compatible with 4 Ohm or 8 Ohm loudspeakers
- Power module dimensions:
(L x H x D in mm): 140 x 33 x 64
- Unit weight 110 g

* See functions, protections and approvals pages 62 > SPA NANO 112.

• Rebroadcasting or Radio retransmission:

the signal from the transmission RADIO is amplified and re-transmitted over the loudspeaker outside the vehicle during an intervention. The user activates this function using a key on the control panel.*

• "Park kill" when the user puts on the handbrake, the siren cuts off automatically.*

• **Automatic start-up** when the vehicle engine is started.*

• **Automatic stand-by** when the vehicle is stopped to avoid running down the battery.*

• The siren and signalling are triggered using the vehicle's horn and/or a pedal (**Team leader pedal**).*

* Available but non compulsory functions, they are activated if the installer has made the necessary connections. See the user and installation manual.

Tone	LS	Code
To be indicated	150 W	CU
To be indicated	30 W	CU

CU: Consult us
LS: Loudspeaker

Many tones available

> Please, consult us.

#2 - EQUIPMENT FOR EMERGENCY VEHICLES



PAU - Portable Alert Unit



The **PAU**, Portable Alert Unit, is a product that was developed for local authorities that have an LEP (Local Emergency Plan) It is a simple mobile system used to warn the population of a danger.

The **PAU** includes a blue or amber rotating or flash light, a high power siren and a message recording and broadcasting system using a NANO SPA. It is lightweight, simple and easy to install on all types of vehicle: **no installation costs.**



TECHNICAL SPECIFICATIONS

Messages broadcasting :

- Possibility of recording up to 3 messages on the SD card
- Public Address message broadcast system.
This is the same technology as is used in the **Standby-Mercura®** lightbars

Tones :

- Tone 1: NAS (*not modifiable*)
- Tone 2: End of NAS (*not modifiable*)
- Tone 3: BEEP (*modifiable, to be indicated with the order*)
- Tone 4: if necessary (*to be indicated with the order*)



Name	Mode	Code
Blue PAU	Flash	28874
Blue PAU	Rotating	28648
Amber PAU	Flash	27780
Amber PAU	Rotating	31217

PSU - Portable Signalling Unit



PSU



TECHNICAL SPECIFICATIONS

APPROVED
R65
EUROPE

WARRANTY
3
YEARS

- Ideal for unmarked vehicles
- Temporary additions to your fleet
- No modification of the vehicle
- Black matt ABS housing
- 115 db Loudspeaker and siren
- Cigar lighter plug with coiled cord
- **2 keys:** Single light or light + siren
- Gyroled® R65 approved
- Reinforced magnetic base
- **Power supply:** 12V or 10-30V
- **Dimensions in mm (h x w x L):** 179x130x170

CLASS 1				
PSU	Gyroled	Mode	12 V	10-30 V
International		Blue Rotating	23500*	29114*
International		Blue Flash	23501*	

* Also available in amber and red, please contact us.

EMERGENCY
VEHICLES

PSU for utility vehicles with extended cord



TECHNICAL SPECIFICATIONS

- PSU with blue classic Gyroled, R65 Class 1 approved
- 6 m spiral cord with cigar lighter plug
- **Power supply:** 12-24 V
- Tone to be specify when ordering



PSU - Class 1



PSU - Class 2

Name	Code
Blue PSU rotating	34421
Blue PSU flash	34422

Name	Code
Bag for PSU	30034

Class 2 as an option > **contact us.**



STANDBY!®

When attention matters.

www.standby.eu



Equipment for service vehicles

#3

Airport equipment.....	68
LED beacons.....	72
Lightbars.....	78
Triangles.....	90
LED lights.....	98
Searchlights.....	106

SERVICE
VEHICLES

AIRPORT EQUIPMENT



GYROLED® ICAO

Light compliant with the Appendix 14 specifications
(International civil Aviation agreement for the ICAO regulations
for vehicles and type C moving obstacles)

Pattern	Mounting	Code
Rotating	Flat	28401
Rotating	Pipe-mounted	28402
Rotating	Magnetic	28403
Flash	Flat	28404
Flash	Pipe-mounted	28405
Flash	Magnetic	28406

Also available in XL version

Pattern	Mounting	Code
Rotating	Flat	29133

Pattern	Mounting	Code
Rotating	Flat	28407
Rotatingf	Pipe-mounted	28408
Rotating	Magnetic	28409
Flash	Flat	28410
Flash	Pipe-mounted	28411
Flash	Magnetic	28412



W3 Aero lightbar



- Features unique aerodynamic shape, exceptional light performance and robust design. Fulfills the requirements for use on airports in accordance with ICAO Annex 14 as well as ECE R65 Class 2, lighting requirement on public roads and EMC.

- Power supply : 10-30V.



AIRPORT LIGHTBARS

VEGA Lightbar with red / green lights for Airport



- Aerodynamic, thin lightbar, a height of only 67 mm
- Robust, aluminium frame and polycarbonate lens
- Reduction of vehicle's aerodynamic drag and therefore its fuel consumption
- Optimal installation with adjustable fixing system
- High brightness LED technology
- R65 approved
- Very low electrical consumption



TECHNICAL SPECIFICATIONS

- **Dimensions (L x h x I):** 1.30m x 67mm x 267mm
- **Extremity:** orange
- **Mode:** flash
- **Interior lights:** red/green
- **Loudspeakers:** with SPA option
- **Control:** wired control (BLL) or 12 keys control panel

Name	Length	Code
VEGA lightbar with red/green lights for Airport	1,30m	32698
VEGA lightbar with red/green lights for Airport	1,60m	32699

Light meeting the specifications of Annex 14 (Convention on International Civil Aviation of ICAO regulations for vehicles and mobile obstacles like C) and the EASA (Annex to ED Decision 2014/013/R - Certification Specifications (CS) and Guidance Material (GM) for Aerodromes Design - CS-ADR-DSN).

VEGA PML



TECHNICAL SPECIFICATIONS

- **Dimensions (L x h x I):** 1.30m x 67mm x 267mm
- **Extremity:** amber
- **Mode:** flash
- Display dynamic messages
- **Loudspeakers:** with SPA option
- **Control:** 12 keys control panel

Length	Code
1,30m	32700
1,60m	32701

Light meeting the specifications of Annex 14 (Convention on International Civil Aviation of ICAO regulations for vehicles and mobile obstacles like C) and the EASA (Annex to ED Decision 2014/013/R - Certification Specifications (CS) and Guidance Material (GM) for Aerodromes Design - CS-ADR-DSN).



Options	Code
RC (Roof Connector)	32709
Siren / Public Address (requires option RC)	32710
4 keys control panel	32711
Complete control panel	32714
Control by wires Interface (Control on +12V)	32712
Control by wires Interface (Control on ground)	32715
Stop light & interface to vehicle	32716
2 alley lights	29971



Options	Code
Roof Connector	32709
Siren / Public Address (requires option RC)	32710
Control by wires Interface (Control on +12V)	32712
Control by wires Interface (Control on ground)	32715
Stop light & interface to vehicle	32716
2 alley lights	29971
Message programming interface*	25581

* Software interface to change your messages



Length	Code
1,10m	32705
1,50m	32706

Light meeting the specifications of Annex 14 (Convention on International Civil Aviation of ICAO regulations for vehicles and mobile obstacles like C) and the EASA (Annex to ED Decision 2014/013/R - Certification Specifications (CS) and Guidance Material (GM) for Aerodromes Design - CS-ADR-DSN).



Length	Code
1,10m	32707
1,50m	32708

Light meeting the specifications of Annex 14 (Convention on International Civil Aviation of ICAO regulations for vehicles and mobile obstacles like C) and the EASA (Annex to ED Decision 2014/013/R - Certification Specifications (CS) and Guidance Material (GM) for Aerodromes Design - CS-ADR-DSN).

Options	Code
RC (Roof Connector)	32709
Siren / Public Address (requires option RC)	32710
4 keys control panel	32711
Complete control panel	32714
Control by wires Interface (Control on +12V)	32712
Control by wires Interface (Control on ground)	32715
Stop light & interface to vehicle	32716
2 alleys light	29971
Message programming interface*	25581

* Software interface to change your messages

ML lightbar with red/green lights



- Aerodynamic profile
- Unbreakable polycarbonate casing
- The lightbar's upper and lower parts are made from anti-corrosion anodised aluminium
- Amber corner flashing LED lights (compliant with OACI & EASA Type D*)



TECHNICAL SPECIFICATIONS

- Back-lit "FOLLOW ME" text on the rear of the lightbar
- Back-lit "FLYCO" text on the front of the lightbar
- 1 Green LED L51 light for taxiing authorisation
- 1 Red LED L51 light for taxiing stoppage
- With 10 metre vehicle cable harness
- Supplied with black, matt universal, corrosion-treated permanent mountings
- **Dimensions (L x w x h):** 110 cm x 28 cm x 13.5 cm
- **Input voltage:** 12-24 V

Options

- Lightbar controlled by a classic unit switch or a control panel
- 1.50 m length for utility vehicles

M lightbar with Message Panel



- Aerodynamic profile
- Unbreakable polycarbonate casing
- The lightbar's upper and lower parts are made from anti-corrosion anodised aluminium
- Amber corner flashing LED lights (compliant with OACI & EASA Type D*)



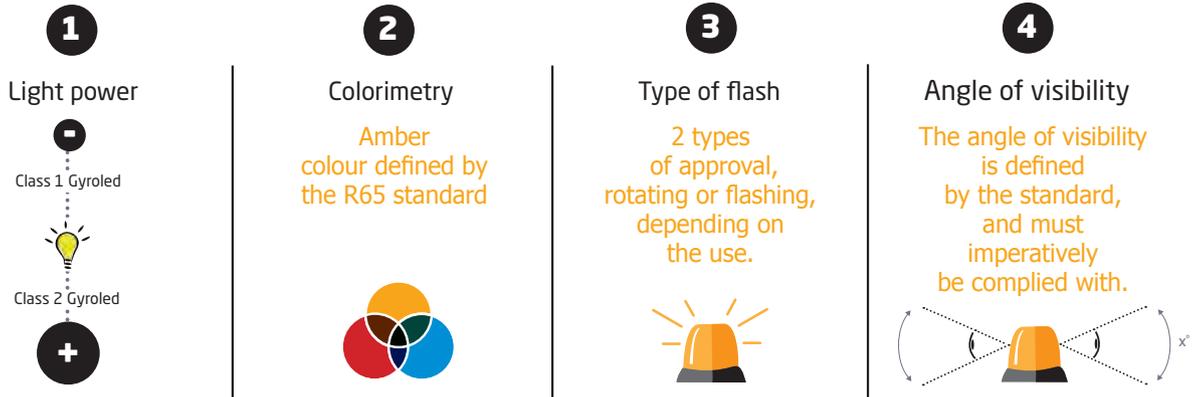
TECHNICAL SPECIFICATIONS

- **Dimensions (L x l x h):** 110 x 28 x 13.5 cm
- Amber light at each end
- **Mode:** flash
- **Central lights:** Message Panel
- **Loudspeaker:** with Siren / Public Address option
- **Control:** 12-key control panel
- **Roof connector:** optional

LED BEACONS

THE R65 STANDARD FOR SPECIAL SIGNALLING EQUIPMENT

R65 Approval criteria



Approval does not depend on the number of LEDs or LED layers.



The applications?

The R65 class 1 minimum approval is a requirement for the light signalling on emergency vehicles or vehicles with right of way.

GYROLED RANGE



Gyroled[®], a Standby-Mercura[®] innovation!

- **Approved R65** rotating LED light
- Flash and rotating mode
- Polycarbonate cover
- Comfort > noise level = 0 dB
- Can be used with the engine off
- Watertight product, protected from polarity reversals and not vibration-sensitive
- No maintenance! No belt, no motor or expensive lamps to replace



COMPARISON

GYROLED M130 CLASS 2 AND GYROLED M80 CLASS 1



Detailed comparison of our Gyroled range, see page 72

Fixing	Colour	Mode	Référence
ISO	Amber	Programmable	28701
ISO	Red	Programmable	28703
ISO	Green	Programmable	28704
ISO	Crystal	Programmable	28702



ISO adapter
Top assembly

Code
30674



Gyroled M130 Class 2



- R65, EMC approved LED beacon
- R65, Class 2 lighting power
- 13 flash modes available
- Polycarbonate cover
- Lighting on the top of the Gyroled for identification from the air

TECHNICAL SPECIFICATIONS

- **Height:** 123 mm - Diameter: 184.5 mm
- **ISO weight:** 1.274 kg
- **Power supply voltage:** 12-24 V
- **Power:** 22 W maximum
- Cruise feature
- **Operating temperature:** -40 °C to +85 °C
- Protected from polarity reversals
- **Consumption:** - 12 V : 1,8 A - 24 V : 0,9 A

APPROVALS

- **Photometry:**
R65 Approved (*special warning lights*):
Blue flash: TB2 (E2) 0016105
Blue rotating: TB2 (E2) 0016106
- **Protection:**
Seal-tightness: IP 45
Protection from mechanical impacts: IK06
- **EMC:**
"E" marking, Regulation R10 N° E2 10R05 16034
CISPR25 (2008): class 5 radiated; class 5 conducted

SERVICE
VEHICLES

#3 - EQUIPMENT FOR SERVICE VEHICLES

GYROLED® M80 Amber - Class 1



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

DELIVERY
24^H

APPROVED
UTAC



- LED beacon, EMC and R65 approved in flash and rotating mode
- High brightness R65 Class 1 approved
- 13 available flash patterns, modifiable with a magnet (code 30736)
By default, product delivered in rotating mode
- Light plastic base for better heat dissipation



TECHNICAL SPECIFICATIONS

- 13 flash patterns
- Polycarbonate dome
- **Input voltage:** 12-24V
- **Power supply:** 11 W maximum
- **Operating temperature:** -40°C to +85°C
- Protected against polarity reversals
- **Average consumption:** 900mA depending on the operating mode
850mA in rotating mode at 13.5V
- **Warranty:** 3 years

ISO VERSION

- **Height:** 96 mm - **Diameter:** 134 mm
- **Weight:** 0.450 kg

PIPE-MOUNTING VERSION

- **Height:** 176 mm - **Diameter:** 134 mm
- **Weight:** 0.585 kg

MAGNETIC VERSION WITH CIGAR LIGHTER PLUG

- **Height:** 105 mm - **Diameter:** 134 mm
- **Weight:** 0.750 kg
- Spiral cable, minimum length 50cm, maximum 3m

APPROVALS

PHOTOMETRY

- R65 Class 1 approval in flash and rotating mode

PIPE-MOUNTING VERSION

- Ingress Protection Code: IP 45
- Protection from mechanical impacts: IK08

EMC

- « E » Marking Regulation R10 N° E2 10R05 16242
CISPR25 (2008): class 4 or 5 radiated

M80 grill

Name	Code
Protection grid for M80	32209

13 AVAILABLE FLASH PATTERNS

WHICH CAN BE MODIFIED IN FEW SECONDS !



ISO version



Pipe-mounting version



Magnetic version
with cigar lighter plug

Mounting	Code
ISO	30577
Pipe-mount	30582
Magnetic with cigar lighter plug	31653
1 point	33994



GYROLED® - Kombi

A single light 2 functions



- Mandatory double signalling combined in a single light
- Slow vehicle and response priority for snow removal or service vehicle and right of way
- R65 Approval



TECHNICAL SPECIFICATIONS

- **Average consumption at 24V:** 1.4 A (2 lights on)
- **Power supply:** 12 to 24 volts DC.
The Kombi is protected against polarity reversals
- Waterproof product
- Vibrations do not affect the operation of the Kombi
- Amber, blue or transparent polycarbonate cover
- **Operating temperature:** -40°C to +85°C
- **Dimensions (Height x Diameter in mm):** Standard: 181 x 105
- Noise level = 0 dB
- Gyroled: Protection index 45



Bottom light CL.2		Top light CL.1		Fixing	Code
Colour	Pattern	Colour	Pattern		
Blue	Flash	Amber	Rotating	Iso	24602
Amber	Rotating	Blue	Flash	Iso	24604
Amber	Rotating	Blue	Flash	Magnetic	24605
Blue	Flash	Amber	Flash	Iso	24575
Blue	Flash	Amber	Flash	Magnetic	24606
Amber	Flash	Blue	Flash	Iso	24607

LED winter lights



TECHNICAL SPECIFICATIONS



- Flashing blue LED light (double flash) on pipe-mount class 2 or class 2 XL
- Polycarbonate cover
- Power supply voltage: from 10 to 30V DC
- Operating temperature: -40°C to +85°C
- Consumption at 12 V: 1800mA
- Consumption at 24 V: 900mA
- Height: 295 - diameter: 152 (Class 2 XL)
- Height: 200 - diameter: 105 (Class 2)
- Comfort: noise level = 0 dB

Name	Code
Gyroled class 2 blue flash on pipe-mounted	23528
Gyroled XL class 2 blue flash on pipe-mounted	23535



#3 - EQUIPMENT FOR SERVICE VEHICLES

GYROLED® CLASSIC - Class 1

PRODUCT
+

DELIVERY
24H



- Rotating or flash LED lights (*double flash*)
- Polycarbonate cover, available colours: amber, crystal, red and green
- Operating temperature: -40°C to +85°C
- Consumption at 12 V: 900mA
- Consumption at 24 V: 450mA
- Height: 64.4 mm - Diameter: 105.6 mm (*single light*)
- Height: 109.4 mm - Diameter: 146 mm (*ISO*)
- Comfort: noise level = 0 dB
- Gyroled: Protection index 45



**ANTI-GLARE
HALF COVER**
In black ABS for Class 1 Gyroleds

Code
22779



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

ISO XS BASE
Height : 89 mm
Diameter : 146 mm



Motorcycle Mast



- Lightweight, strong
- Polycarbonate mast
- Black matt colour
- Composed of three elements
- Dimensions (*in mm*):
Diameter: 42, 36, 30
Height: 660 -1270
- Fixing using a collar and M6 fixing screws
- Weight: 1.3 kg

Mounting	N°	AMBER		RED	
		Rotating	Flash	Rotating	Éclats
Single	1	22302	22303	23369	23368
ISO	2	22304	22305	23370	23394
ISO XS	-	27002	28358	CU	CU
Pipe-mount	3	22306	22307	23392	23395
Magnetic CLP	4	22308	22309	23393	23396
Remotely controlled magnetic CLP	5	30321	30370	30373	30374
Magnetic jack plug	6	28045	28046	CU	CU
Stick with CLP	7	24489	24490	24497	24498
Battery powered magnetic* (<i>chargeur 12V</i>)	8	23400	23401	23402	23403
Battery powered magnetic* (<i>chargeur 220V</i>)	8	27159	27160	CU	CU
Motorcycle mast	-	23556	23557	23558	23559
XL-ISO	9	23414	23416	CU	CU
XL-Pipe-mount	10	23415	23417	CU	CU

Mounting	N°	GREEN		CRYSTAL	
		Rotating	Flash	Rotating	Éclats
Single	1	23142	22614	24514	25060
ISO	2	23143	22613	24515	25061
ISO XS	-	CU	CU	CU	CU
Pipe-mount	3	23389	23390	28865	CU
Magnetic CLP	4	23378	23391	24516	26009
Remotely controlled magnetic CLP	5	30375	30376	CU	CU
Magnetic jack plug	6	CU	CU	CU	CU
Stick with CLP	7	24493	24494	29758	27575
Battery powered magnetic* (<i>chargeur 12V</i>)	8	23404	23405	CU	CU
Battery powered magnetic* (<i>chargeur 220V</i>)	8	CU	CU	29715	29716
Motorcycle mast	-	23560	23561	CU	CU
XL-ISO	9	CU	CU	CU	CU
XL-Pipe-mount	10	CU	CU	CU	CU

CU: Consult us • **CLP:** Cigar Lighter Plug

* The warranty does not cover consumables such as the battery



1
Single
● ● ● ○



2
ISO
● ● ● ○



3
Pipe-mount
● ● ● ○



4
Magnetic CLP
● ● ● ○



● ● ● ○
5
Magnetic CLP
remotely controlled



6
Magnetic with jack plug
●



7
Stick with CLP
● ● ● ○



8
Battery powered magnetic
● ● ● ○



9
XL-ISO
●



10
XL-Pipe-mount
●

Light accessories

Name	N°	Code
Pipe-mount connector with threaded tube and nut	①	16066
Plate-mounted pipe-mount connector	②	16065
Flexible plate-mounted pipe-mount connector	③	17126
Flat base with fixings	④	21703
Magnetic base with spiral cable and cigar lighter plug	⑤	15495



LIGHTBARS



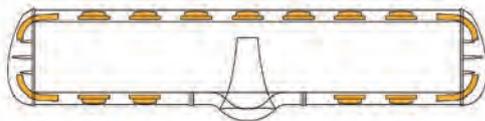
VEGA SPA



TECHNICAL SPECIFICATIONS



- Extra flat lightbar
- Easier access to underground car parks
- Solid, aluminium structure and polycarbonate casing,
- Aerodynamic, 67 mm high
- Optimum installation with adjustable mountings
- High intensity LED power - R65 class 1 approved
- Very low power consumption
- Approved R65 - Class 1



VEGA lightbar with siren technical specifications, see page 43

+



Control panel included

Length	Scrolling	Code with RC
130 cm	Yes**	29261

** Scrolling mode: 5 lights only

VPM option for amber VEGA lightbar > see page 87

VEGA*



* Without siren integrated version

Length	Scrolling	Code with RC	Code without RC
130 cm	Yes	29236	28557
160 cm	Yes	29237	28558

VEGA lightbar without siren technical specifications, see page 50

Additional power modules

For extra features
(e.g.: strengthening light, marker lights, etc.)

- **Plug & Play** technology

* Includes the same outputs as the 292 module with an extra stabilised 12 V output to supply a digital radio.

Name	Code
Power module 292	30075
Power module 446 EVO*	30076

Vega Lightbar White/Amber is a completely unique product that combines high beam light with work light and also amber warning light.

This provides a very flexible solution where you do not have to fold in an **extra lightbar** in the vehicle, which saves time and cost and it leaves no damage to the vehicle. **It is easy to move the entire solution** to a new vehicle, which contributes to good durability and better overall economy.

The lightbar is equipped with a built-in powerful auxiliary light in the front and also at the rear. The amber **warning light has 360-degree approval**, which means that it alone meets the requirements for warning lights on a vehicle. The white work light shines 360 degrees around the vehicle and provides a safer and better working environment.

Vega White/Amber is operated via the included panel where each light can be operated individually. The built-in auxiliary light can be switched on via the vehicle's ordinary headlights.



TECHNICAL SPECIFICATIONS

- **Lens:** Polycarbonate
- **Colour LEDs:** Amber , White
- **Colour lens:** Clear
- **Cable:** 4,5 m
- **Voltage:** 12V, 24V
- **Consumption:** 13A@13,8v, 6,5A@27,6V
- **Length:** 1280 mm
- **Height:** 67 mm
- **Width:** 267 mm
- **WLTP:** 128 cm: 0,086 m2, 12,7kg
- **Operating temperature:** -40°C - +85°C

APPROVALS

- ECE R65 I, ECE R10, EMC

▼ VEGA white



VEGA amber ▼



MINI-VEGA with siren

PRODUCT

- Mini lightbar with integrated siren and loudspeakers
- Lightweight, quick and easy to install
- 3 types of available mounts
- Length: 53 cm
- Power supply: 12-24V



Article Number	LED light	Lens	Tones	Mounting system	Control
31746	Amber	Amber	4 Tones*	Bolted	By wires
31748	Amber	Amber	4 Tones*	Adhesive	By wires
31750	Amber	Amber	4 Tones*	Magnetic	2- button cigar lighter plug
31760	Amber	Clear	4 Tones*	Bolted	By wires
31761	Amber	Clear	4 Tones*	Adhesive	By wires
31762	Amber	Clear	4 Tones*	Magnetic	2- button cigar lighter plug

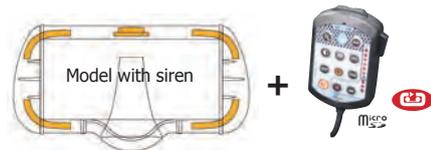
* 4 tones to be indicated with the order - Flash pattern for mini Vega lightbars: alternating. **Also available in red >Consult us.**



Control from a public address microphone control panel

RC	Control panel	Adhesive	Bolted
yes	Handy	30262	30263

RC: Roof Connector



Also available with standard control panel



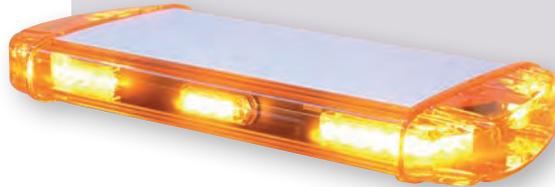
MINI-VEGA without siren



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

- Mini lightbar without siren and loudspeakers
- Lightweight, quick and easy to install
- 3 types of available mounts
- **Length:** 53 cm
- **Power supply:** 12-24V



Article Number	LED light	Lens	Tones	Mounting system	Control
31743	Amber	Amber	-	Bolted	By wires
31744	Amber	Amber	-	Adhesive	By wires
31745	Amber	Amber	-	Magnetic	2- button cigar lighter plug
31757	Amber	Clear	-	Bolted	By wires
31758	Amber	Clear	-	Adhesive	By wires
31759	Amber	Clear	-	Magnetic	2- button cigar lighter plug

Also available in red > **Consult us.**



W3 lightbar amber



NEW

With the new W3, we have taken another step in development and offer a world-class multicolored lightbar. It is based on our popular W Series, with all its benefits and features. The robust design and its aerodynamic design are the same as before, but the newly developed two-colour interior modules now offer a whole host of additional new possibilities.

Features such as stop, brake and position lights, as well as indicators, direction, protection/work lights, police stops and traffic indicators are now available. In addition, the lightbar always has yellow and blue lights in the corners, as well as side work lights as standard.

W3 is approved according to ECE R65 Class 2 round-beam lights, as well as directional warning light Class 1. It is developed to cope with the tough Nordic climate and is built with high quality in mind. The lightbar is connected via CAN-Bus or via a break-out box purchased separately.

W3 comes with a full 4-year warranty.



TECHNICAL SPECIFICATIONS

- Aerodynamic design that provides minimal air resistance and low noise levels for the driver
- Built with high intensity light diodes
- Side work light is standard
- Front/rear work lights are available as an option
- Features such as position lights, indicators and traffic indicators
- Day/night location and cruise-light
- Easy to service
- Developed and manufactured in Sweden
- **Length:** 590, 930, 1100, 1270, 1440, 1600, 1770 & 1940 mm
- **Height:** 65 mm (*corner modules*), 47 mm (*inboard modules*)
- **Width:** 280 mm
- **Cable:** 4,5 m
- 4-year warranty

APPROVALS

- ECE R65 I, ECE R65 II, ECE R10, EMC, ECE R6, ECE R7

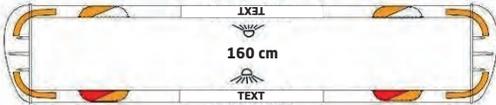
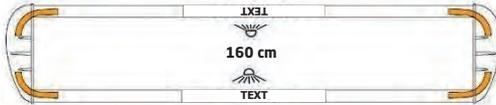
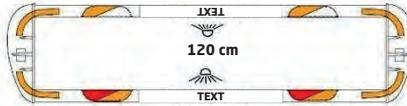


> W3 lightbar amber

Service VEGA lightbar



CCS 8-key
Control panel



- **LED lighting:** low consumption and high intensity
- Aerodynamic lightbar, a height of only 67 mm
- **Approvals:** flash R65 Class 2, EMC R10
- Night mode (*lower intensity*)
- Cruise mode for constant visibility



TECHNICAL SPECIFICATIONS

- **Available in 2 lengths:** 1.20m (*for light vehicles*) and 1.60m (*for commercial vehicles*)
- Wired control or by CCS control panel
- **Backlit text to be specified when ordering:** service, recovery, etc.
- Polycarbonate lenses
- Amber LED lights
- **Mode:** R65 double flash
- **Input voltage:** 12-24V
- **Protection from mechanical impacts:** IK08
- **Ingress Protection Code:** IP 45
- Supplied with standard black adjustable mounting brackets

Options (*except basic versions*):

- Lighting of the work area with take-down lights
- **Functions:** indicator light, STOP and warning lights

Name	Code
VEGA 120 cm basic	33587
VEGA 160 cm basic	33588
VEGA 160 cm (4 lights)	33635
VEGA 160 cm (8 lights)	33636

OPTIONS (*Expert basic version*)

Name	Code
Roof connector	32709
CCS 4-key control panel	34039
CCS 8-key control panel	34040



#3 - EQUIPMENT FOR SERVICE VEHICLES

VEGA LIGHTBAR • MOTORWAY VEHICLES



▲
OFF

▼
ON

Amber version



TECHNICAL SPECIFICATIONS

- **Base and roof:** Aluminium
- Clear polycarbonate casing
- **Amber corner lights:** 4 modules of 9 LED
- R65 mode - Class 2 double flash
- **LED traffic director:** Scrolling (NF 12352 L2H), Rear pattern: warning, right, left, inside, outside.
- **Dimensions (L x w x h) in cm:** 120 x 26,7 x 6,7
- **Maximum height with mounting (in cm):** 15,4cm
- Supplied with a 5 meter harness and adjustable mountings control box and its fixing system
- Roof connector
- **Power supply:** 12/24V
- CEM R10 and R65 CLASS 1 approval - N° TA1 (E2) 15221



4 button
Control Panel

Name	Code
Amber VEGA lightbar with rear traffic director and roof connector	32709

• **Mounting not included, please add them to your order according to the table on page 48** •

Accessories	Code
Vehicle harness with roof connector	29350



Dual colour version: Blue/Amber

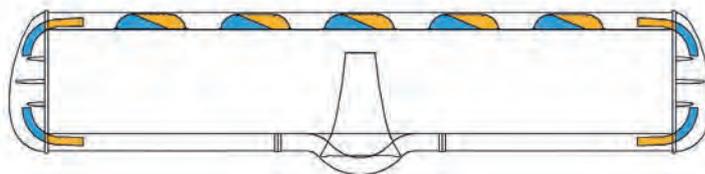


TECHNICAL SPECIFICATIONS

- **Base and roof** : Aluminium
- Clear polycarbonate casing
- **Dual color corner lights**: 4 modules of 18 LED
- Blue flashing lights
- Siren included in the lightbar
- R65 mode - Class 2 double flash
- **LED traffic director**: Scrolling (NF 12352 L2H),
Rear pattern: warning, right, left, inside, outside.
- **Dimensions (L x w x h) in cm** : 120 x 26,7 x 6,7
- **Maximum height with mounting (in cm)**: 15,4cm
- Supplied with a 5 meter harness and adjustable mountings control box and its fixing system
- Roof connector
- **Power supply**: 12/24V
- CEM R10 and R65 CLASS 1 approval
- **Blue** : TB1-E2-0020302 / **Amber** : TA1-E2-0020303



8 button Control Panel



Name	Code
Dual color Blue/Amber VEGA siren included in the lightbar with roof connector	3401

• **Mounting not included, please add them to your order according to the table on page 48** •

Accessories	Code
Vehicle harness with roof connector	29350

#3 - EQUIPMENT FOR SERVICE VEHICLES

M lightbar with message panel



- Message display at the back
- Message display towards the front available as an option: "mirror" display legible in the driver's rear-view mirror
- Foreign language display available
- **Light power:** Gyroled in the lightbar and LED side alley lights
- Approved products
- **Mercura®** technology and quality*

APPROVALS

- ECE R65 Class 1
- EMC R10
- VMP: N° E2 0511026



Touch control panel
Easy-to-use
Up to 100 messages
7 languages available



LMP Control panel
6 pre-defined messages



TECHNICAL SPECIFICATIONS



- **Dimensions (L x w x h):** 110 x 28 x 13.5 cm*
- **Base and roof:** aluminium
- Polycarbonate blue or amber casing*
- **Alley lights:** Two 4-LED modules*
 - 2 or 4 Gyroled Class 1 or 2*
 - R65 rotating or flash mode*
- Power supply 12/24 V
- 3 year guarantee
- Delivered with 7 metre harness
- Delivered with black, matt universal, corrosion treated permanent mountings
- Adjustable mounts
- **Available options:** see table opposite

* Depending on the model

OPTIONS

Name	Code
Lightbar 1,10m 2 amber Gyroled Cl.1	32408
Roof connector	29964
VMP (100 messages)	29965
LMP (6 messages)	34007
Front message panel	29966
1.50 m long lightbar	29967
+ 2 Gyroled Class 1	29968
2 x Gyroled Class 2	29969
4 x Gyroled Class 2 ¹	29970
2 x alley lights	29971
Siren ²	29972
Public Address	29973
Message programming interface*	25581

¹ Incompatible with 1.10 m lightbar

² Incompatible with front message panel Gyroleds can be in R65 rotating mode, R65 flash mode, ICAO rotating mode, ICAO flash mode (please indicate with the order) Please specify the siren tone with the order

* Software interface to change your messages

Length. (in m)	Colour	VMP / LMP	Gyroled	Mode	Side alley lights	Siren	RC	Code
1,10m	Amber	VMP (6 messages)	2	Flash R65	No	No	No	29962

RC : Roof Connector





VEGA lightbar VMP option

Red coloured LED variable message panel:
 Character height: 40 mm
 Automatic switch to Day/Night mode
 Message panel length: 355 mm
 Messages can be displayed in static, flashing or scrolling mode

LMP option

Panel with 6 pre-defined messages controlled by a 12-key XL control panel

LMP : *Limited Message Panel*

VMP option

100-message panel controlled by a T-Panel touch control panel. Easy to use, up to 100 recorded messages, 7 available languages.

Public Address option

Broadcast of messages using the microphone built into the control panel and/or messages recorded on a SD card.



T-Panel Control Panel



LMP Control Panel
6 pre-defined messages



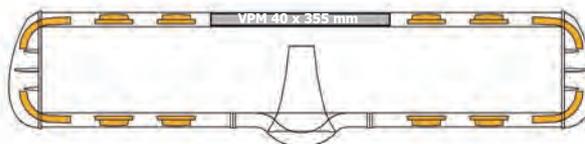
Handy Public Address

VMP Option for VEGA lightbar

The VMP option (Variable Message Panel) is used to communicate information or warnings to road users. It is very useful for local authorities that have a PCS (Local emergency plan), and is used to display warning messages to the population.

The messages can be updated or adapted using PC software. They can be programmed for a static, flashing or scrolling display.

The "mirror" VMP function on the front area of the lightbar can also be used to display a message that can be read on the central rearview mirror.



Illustrated model: VEGA lightbar with integrated siren, amber Class 1 at the front and rear and VMP option.

Name	Code
130 cm VEGA lightbar with roof connector	31845
Siren option	30788
Public Address option1	30724
Side alley light option	30787
VMP option (T-Panel control panel)	30723
LMP option2 (12-key control panel)	30721
VMP front "mirror" option	30830
Message programming interface*	25581

VMP

¹ Not compatible with the LMP option -

² Not compatible with the PUBLIC ADDRESS option

* Software interface to change your messages



#3 - EQUIPMENT FOR SERVICE VEHICLES

« M » Profile lightbar

PRODUCT

WARRANTY
3
YEARS

- Length 1.10 m (width 280 mm, height 135 mm) optionally 1.50 m for commercial vehicles
- 2 or 4 amber gyroleds®
- ML6x series amber rotating Gyroleds®
- ML7x series double flash amber Gyroleds®
- Input voltage 12V/24V
- **Siren:** many tones available, please consult us
- Built-in 100W loudspeaker
- Illuminated text on the rear of the lightbar



ML 62

- Lightbar controlled by a conventional assembly with switch, fuse relays (not included)
- With 10 metre vehicle cable harness
- Delivered with black, matt universal, corrosion-treated permanent mountings

APPROVALS

Photometry : Approval according to regulation ECE-R65
Amber Gyroled® in rotating mode (*rotating light*) TA1 (E2) 00 09031
Amber Gyroled® in flash mode (*double flash*) TA1 (E2) 00 09032
Siren approved depending on tone: consult us

ML61-71 (2 Gyroled) Series

Length (in cm)	LS	S	PA	RC	ML61 Rotating	ML71 Flash
110	-	-	-	-	24635	24142
150	-	-	-	-	25058	27631
110	-	-	-	✓	24829	25444
150	-	-	-	✓	25161	28675
110	✓	✓	-	-	CU	CU
150	✓	✓	-	-	CU	CU
110	✓	✓	-	✓	23605	28135
150	✓	✓	-	✓	24444	26518

ML62-72 (4 Gyroled) Series

Length (in cm)	LS	S	SPA	RC	ML62 Rotating	ML72 Flash
110	-	-	-	-	23724	27211
150	-	-	-	-	24244	24448
110	-	-	-	✓	24451	25300
150	-	-	-	✓	27691	25554
110	✓	✓	-	-	23760	24580
150	✓	✓	-	-	25588	CU
110	✓	✓	-	✓	27798	29180
150	✓	✓	-	✓	24865	CU
110	✓	Multitone	-	-	CU	CU
150	✓	Multitone	-	-	CU	CU
110	✓	Multitone	-	✓	CU	CU
150	✓	Multitone	-	✓	24177	CU
110	✓	✓	✓	-	23742	CU
150	✓	✓	✓	-	CU	CU
110	✓	✓	✓	✓	24844	CU
150	✓	✓	✓	✓	29001	CU

CU: Consult us • LS: Loudspeaker • S: Siren • SPA: Siren & Public Address • RC: Roof connector



ORION lightbar

PRODUIT
+

GARANTIE
3
ANS

HOMOLOGUE
R65
EUROPE

- LED technology
- Five times lower consumption than a conventional lightbar
- Beltless LED beacon: maintenance free
- ECE R65 approved product
- Easy to install
- Lightweight
- Polycarbonate casing: its high transparency and excellent impact resistance make polycarbonate the best material for the production of automotive lighting components.
- User comfort with a sound level of 0 decibels

TECHNICAL SPECIFICATIONS

- Length 1.20, 1.40 and 1.60 m for utility vehicles
- 2 or 4 gyroleds® either blue or amber
- Rotating or flash Gyroled®
- Polycarbonate casing
- **Height:** 115 mm, **Height with support:** 172mm
- **Width:** 338mm
- Illuminated text on the rear >FREE
- **Input voltage:** 12V/24V
- With 10 metre vehicle cable harness and roof connector
- Supplied with black matt universal permanent mountings

Options :

- **Siren:** ASA tone MP5 (*contact us*)
- Loudspeaker built into front of the lightbar
- Lightbar controlled by a conventional assembly with switch, fuse relays (*not included*)

Length (in cm)	Colour	Gyroled	Mode	Code
120	Amber	2	Rotating	24976
120	Amber	4	Rotating	24978
120	Amber	2	Flash	24980
120	Amber	4	Flash	24982
140	Amber	2	Rotating	24984
140	Amber	4	Rotating	24986
140	Amber	2	Flash	24988
140	Amber	4	Flash	24992
160	Amber	2	Rotating	25139
160	Amber	4	Rotating	25141
160	Amber	2	Flash	25143
160	Amber	4	Flash	25145

SERVICE
VEHICLES

TRIANGLES



- One light at the top of each triangular panel : inside the triangle if $d < 0.15c$ and on the outside of the triangle if $d > 0.15c$



Magnetic triangles with manual raising system

PRODUCT +

WARRANTY 3 YEARS

500 mm or 700 mm AK5 screen-printed triangle, classes T1 or T2

- Day/night adjustment of light intensity by a twilight sensor
- 1 hinge for 500 mm triangle and 2 hinges for 700 mm triangle (hinges to protect against obstacles)
- Amber 74 mm LED lights: 964 candelas photometry / light
- EN 12352 classification: L2H class
- Consumption: 1.2 A from 10 to 15 V - 360 mA at 24 V
- Supplied with control switch

500 Triangle



- LED triangles with resin-embedded electronic unit for protection against vibrations, corrosion and short-circuits.
- Forward/back articulation using zinc plated hinges

700 Triangle



	12V / 24V
Single face triangle	Code
500 Triangle - Class T1	18006
500 Triangle - Class T2	18008
700 Triangle - Class T1	18010
700 Triangle - Class T2	18012
Double face triangle	
500 Triangle - Class T1	18005
500 Triangle - Class T2	18007
700 Triangle - Class T1	18009
700 Triangle - Class T2	18011

Electric raising systems



WARRANTY
3
YEARS



Electric raising increases the service life of the triangle and makes it easy to use and quick to set up. For slow-moving vehicles with service speeds of under 25 km/h.

This option includes:

- A corrosion-resistant aluminium casing. This helps protect the triangle. It is delivered untreated or painted in your colours.
- An electric jack which is used to quickly set up the triangle from the driver's seat, whatever its position on the vehicle.
- The system includes a 4.5 m cable harness, control switch and mounting.
- **Voltage:** 12 V / 24 V

74 mm LED light triangle			Untreated	RAL Paintwork		
Triangle	Screen printed	Class	Code	Amber RAL 2000	White RAL 9016	To be specified
500	AK5	T1	21460	21446	21264	21244
		T2	21164* ^{24h}	21168	21037	21142
500	AK14	T1	21814	CU	CU	20726
		T2	23673	CU	CU	20865
700	AK5	T1	21823	21180	20310	21344
		T2	21165* ^{24h}	21166	20568	21248
700	AK14	T1	CU	CU	CU	CU
		T2	26464	CU	CU	21144

Adhesive fixing as an option: 24224

* 24 hour delivery



Triangles accessories

	Code
Manual remote control (<i>option</i>)	15330
Magnetic hook to keep all the triangles horizontal	17417
Direct mounting on Ecoplaque for Ecofix 500	17411
Direct mounting on Ecoplaque for Ecofix 700	17414
Magnetic mounting on Ecoplaque for Ecofix 500	17412
Magnetic mounting on Ecoplaque for Ecofix 700	17415
Magnetic mounting on Ecoplaque + cigar lighter plug for Ecofix 500	17413
Magnetic mounting on Ecoplaque + cigar lighter plug for Ecofix 700	17416

#3 - EQUIPMENT FOR SERVICE VEHICLES

Magnetic Triangles with manual raising system



TECHNICAL SPECIFICATIONS

- **LED lighting:** low consumption and high intensity
Magnetic triangle unit with manual or electric raising system with or without Gyroled M80
- **For triangles with electric raising system:** protective corrosion-resistant aluminium casing
- Electric actuator for bringing quickly the triangle into service from the driver seat, regardless its position on the vehicle
- Day/night adjustment of light intensity by a light sensor

- **Input voltage:** 12/24V
- 500 mm triangle equipped with an obstacle protection hinge
- **74 mm amber LED lights:** photometry 964 candelas / light
- **Screen print symbol:** AK5 (road works)
- Complies with class L2H according to standard EN 12352
- **Gyroled M80 amber Class 1 R65 approved:** rotating mode by default (13 flash patterns available programmable by the user)
- **Cigarette lighter plug:** standard 1 button or 1 button with on/off indicator light or double button (triangle / gyroled) with indicator light

VERSION WITHOUT LIGHTS

Class	Raising system	Cable length	Gyroled	Code
T1	Manual	5,5m	-	31874
T2	Manual	5,5m	-	32849



Standard cigarette lighter plug with 1 backlit button



VERSION WITH LIGHTS

Class	Raising system	Cable length	Gyroled	Code
T1	Manual	5,5m	2xM80	32852
T2	Manual	5,5m	2xM80	32853



Cigarette lighter plug with double button with indicator light



Magnetic Triangles with electric raising system



Cigarette lighter plug
with on/off indicator light

VERSION WITHOUT LIGHTS

Class	Raising system	Cable length	Gyroled	Code
T1	Electric	5m	-	32850
T2	Electric	5m	-	32851



Cigarette lighter plug
with on/off indicator light

VERSION WITH LIGHTS

Class	Raising system	Cable length	Gyroled	Code
T1	Electric	5,5m	2xM80	33014
T2	Electric	5,5m	2xM80	33015

#3 - EQUIPMENT FOR SERVICE VEHICLES

Quick mount signalling bars



TECHNICAL SPECIFICATIONS

WARRANTY
3
YEARS

- Anodised aluminium bar
- Maximum strength to a weight of 50 kg
- Black finish tip
- Electric connection masking strip
- Professional high adherence double-sided acrylic foam adhesive mountings
- Holding strength 350 N/mm² on steel
- Untreated aluminium mounting leg - Flexible mounting that adapts to the curve of the vehicle roof
- Adjustable mounting to freely position the signalling elements on the bar
- For information about signalling components, please refer to the different sections (*Gyroled, triangle, search lights...*)

KIT CONTENTS

- 1 x anodised aluminium bar, 1.10m, 1.50m or 2.00m
- 3x professional high adherence adhesive mountings
- 1x connection cable harness 6m long (10m for 2.00m bars)
- 1 or 2 amber gyroleds (R65 - Class 1)
- 1x double-sided manually or electric pop-up triangle, switches, assembly instructions

AVAILABLE OPTIONS

- Amber Gyroled (R65 - Class 2), XL (R65 - Class 1), or XL (R65 - Class 2) or M130 (R65 - Class 2)
- 1x blue working light
- 1x work projector



MANUALLY RAISED TRIANGLE



> Manual triangle with 1 Gyroled®*

Length	Triangle	Symbol	Code
110 cm	500	AK5 Class 1	28706
		AK5 Class 2	28712
	700	AK5 Class 1	28714
		AK5 Class 2	28716
150 cm	500	AK5 Class 1	28718
		AK5 Class 2	28720
	700	AK5 Class 1	28722
		AK5 Class 2	28724
200 cm	500	AK5 Class 1	28726
		AK5 Class 2	28728
	700	AK5 Class 1	28730
		AK5 Class 2	28732

> Manual triangle with 2 Gyroled®

Length	Triangle	Symbol	Code
110 cm	500	AK5 Class 1	28734
		AK5 Class 2	28736
	700	AK5 Class 1	28738
		AK5 Class 2	28740
150 cm	500	AK5 Class 1	28742
		AK5 Class 2	28744
	700	AK5 Class 1	28746
		AK5 Class 2	28748
200 cm	500	AK5 Class 1	28750
		AK5 Class 2	28752
	700	AK5 Class 1	28754
		AK5 Class 2	28756

* With this version, the triangle is in the middle and the beacon on the right

Easy to assemble bar kit, to adjust to your needs.

We offer a mounting service, see "Optional assembly" table on page 97.



> Pop up triangle with 1 Gyroled®

> Pop up triangle with 2 Gyroled®

Length	Triangle	Symbol	Code
110 cm	500	AK5 Class 1	28758
		AK5 Class 2	28760
	700	AK5 Class 1	28763
		AK5 Class 2	28766
150 cm	500	AK5 Class 1	28768
		AK5 Class 2	28770
	700	AK5 Class 1	28772
		AK5 Class 2	28774
200 cm	500	AK5 Class 1	28776
		AK5 Class 2	28778
	700	AK5 Class 1	28780
		AK5 Class 2	28782

Length	Triangle	Symbol	Code
110 cm	500	AK5 Class 1	28784
		AK5 Class 2	28786
	700	AK5 Class 1	28788
		AK5 Class 2	28790
150 cm	500	AK5 Class 1	28792
		AK5 Class 2	28794
	700	AK5 Class 1	28796
		AK5 Class 2	28798
200 cm	500	AK5 Class 1	28800
		AK5 Class 2	28802
	700	AK5 Class 1	28804
		AK5 Class 2	28806

Easy to assemble bar kit, to adjust to your needs.

We offer a mounting service, see **"Optional assembly"** table on page 97.

#3 - EQUIPMENT FOR SERVICE VEHICLES



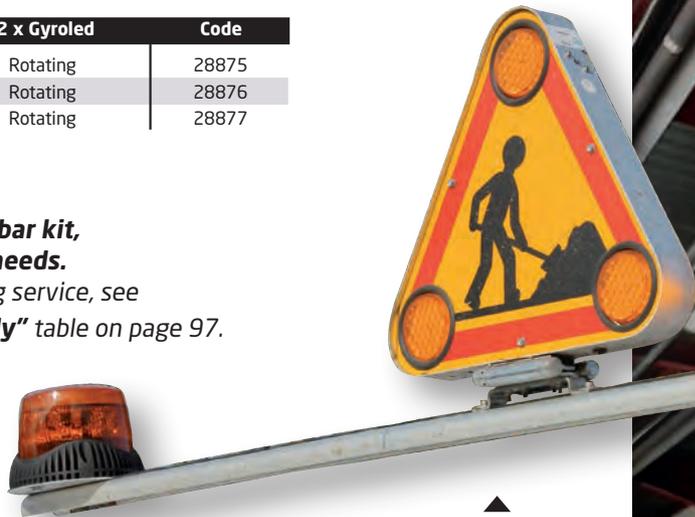
Bar only

Length	2 x Gyroled	Code
110 cm	Rotating	28875
150 cm	Rotating	28876
200 cm	Rotating	28877

**Easy to assemble bar kit,
to adjust to your needs.**

We offer a mounting service, see

"Optional assembly" table on page 97.

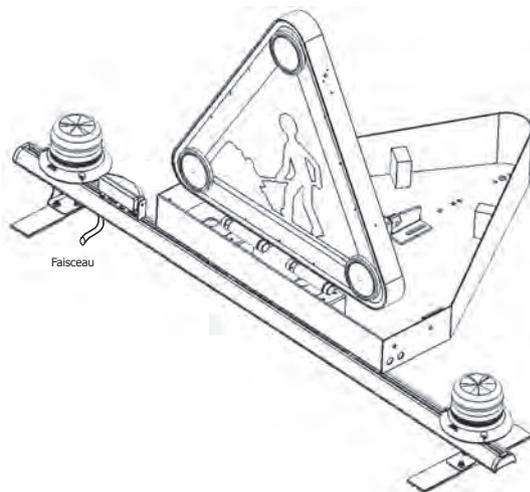


▲
**Quick mount bar
with Gyroled M130**
Class 2 option

The drawing opposite shows our standard mounting:

- Top of the triangle towards the front of the vehicle
- Cable harness on the right, on the passenger side

> If you require a different mounting, please indicate it on your order.





Services and options available for the bar by itself, either manual or pop-up

Additional services (for 1 light)	Rotating	Flash
Gyroled amber Class 1 XL	Code 28808	Code 28855
Gyroled M130 amber Class 2	30265	30266
Wintering lights (Gyroled Class 2 CETMEF on Pipe-mount)	-	28811
	Code	
Searchlight	28812	
Casing paintwork	29645	

Optional assembly	Length	Code
Quick mount bar - Manually raised	110 cm	28922
	110 cm	28923
	200 cm	28924
Quick mount bar - Electrically raised	110 cm	28925
	150 cm	28926
	200 cm	28927

Raise option for quick mount bar

This raise option allows in some cases to offset rounded or tilted roofs or to use sunroof.

The kit includes:

- 2 risers to stick
- 1 adjustable leg for the third point

Height: 113 mm



Name	Code
Raise option kit for quick mount bar	32185

#3 - EQUIPMENT FOR SERVICE VEHICLES

L56 DOUBLE LIGHT DUAL COLOUR

L56 - Class 2

Ultra powerful double light !

The L56 double light is a light specially designed for vehicles and users preferring wide lights for a larger light scattering angle.



WARRANTY
3
YEARS

DELIVERY
24
H

APPROVED
R65
EUROPE

- Large size light for installation in grille or mounting on the corners of the vehicle body
- Multiple color combinations possible
- Different flashing modes included
- R65 class 2 approval
- Simple and robust design
- Double reinforced lens
- Easy to install
- Horizontal mounting
- 3 years warranty



TECHNICAL SPECIFICATIONS

- **Lens:** Polycarbonate
- **Colour LEDs:** Aluminium, black coating Amber, White
- **Colour lens:** Crystal
- **No. of LEDs:** 8 + 8 LED
- **Voltage:** 10-30V
- **Consumption:** 1.3A peak at 13.8 V for 8LED (or 18W for 8LED)
0.65A peak at 27.6V for 8LED (or 18W for 8LED)
- **Dimensions:** 140.2 x 50.5 x 20 mm
- **Operating temperature:** -40°C - +85°C
- **Enclosure rating:** IP67
- **Synchronizing:** 12V: up to 28 LED , 24V: up to 14 LED
- **Approval:** ECE R65 II, ECE R10
- **Includes:** 2m cable

APPROVALS

- ECE R65 class 2
- ECE R10

Double light L56 - Class 2	Code
L56 Blue-amber	33763
L56 White-white	33764
L56 Amber-white	33765

(sold by unit)





L52 Dual colour LED lights

L52 dual colour LED lights	Code
L52 dual colour blue/amber	31628
L52 dual colour blue/red	31629
L52 dual colour blue/white	31630
L52 dual colour blue/green	31631
L52 dual colour amber/white	31632
L52 dual colour amber/green	31633
L52 dual colour amber/red	31634

See technical specification in section "Equipment for emergency vehicles" page 27



Dual colour L52

L52 Dual colour LED lights - Windscreen mountings

Mounting	Colour	Code
1 x L52 dual colour* light with CLP and removable adhesive Velcro mounting	Blue-red	33069
	Blue-amber	33070
	Blue-white	33071
1 x L52 dual colour* light with CLP and suction pads mounting	Blue-amber	34061

* Alternating flash mode only, 3 modes (blue only, other colour only, alternating)



L52 light with suction pads mounting

#3 - EQUIPMENT FOR SERVICE VEHICLES

MONO COLOUR LIGHTS

L52 - Class 2

WARRANTY
3
YEARS

DELIVERY
24^H

APPROVED
R65
EUROPE

LED L52 light	R65	Code
L52 Amber 10-30V	Horizontal	27657
L52 Amber 10-30V	Vertical	27659
L52 White 10-30V	-	28243
L52 Red 10-30V	Horizontal	28059

See technical specification in section "Equipment for emergency vehicles" page 28



L52
(sold by unit)



L52 - White bracket

Mounting	Code
Bracket for 30° mounting for searchlight zoning	33073



L52 - Grill mounts

Grill mountings	Code
1 Standard bracket x1	29599
2 2x bracket kit*	29600
3 Self-adhesive mounting*	29654

* Light not included

1



2



3



**DUAL
COLOUR**





4

5

6

L52 - Permanent windscreen mountings

Permanent mountings	Code
Amber L52 light with windscreen mounting (small model for LV - 144x74x30 mm)	31705
4 L52 windscreen mounting (large model for LV - 155x89x35 mm)	30827
5 L52 windscreen mounting (small model for UV - 144x74x30 mm)	30828

L52 - Removable windscreen mountings

Permanent mountings	Couleur	Code
1 light removable with CLP and velcro type mountings	Amber	31011
	Red	31012
	White	31013
6 Kit 2 lights L52 removable with CLP and velcro type mountings	Amber-amber	31015
	Blue-amber	31018
	Blue-red	31016
	Blue-white	31017
1 light L52 removable with CLP and suction pads mountings	Amber	34064
	Red	34065
	White	34066

* CLP: Cigar Lighter Plug

L52 removable
with CLP and suction pads
mountings

Double L52

Double LED L52 Kit	R65	Code
L52 Amber/Amber	Horizontal	28105
L52 Amber/Amber	Vertical	30206
Double L52 light bracket	-	28103

DOUBLE L52
(sold by unit)

#3 - EQUIPMENT FOR SERVICE VEHICLES

L54



APPROVED
R65
EUROPE

DELIVERY
24H

The newly designed L54 lights are specially adapted for mounting in small spaces. Despite its reduced size and its extra-flat profile for discrete mounting, the L54 light has an output light power that reaches the lighting performances required by the R65 Class 2 standard.

A selection of 2 kits:

- single kit (1 light + 1 unit)
- double kit (2 lights + 1 unit)

- **Customised brackets** for grille-mounting on Vito, Sprinter and T6 models.
- **Universal brackets** also available as accessories.



TECHNICAL SPECIFICATIONS

- **Colours:** blue, amber, red, crystal
- **Number of LEDs:** 6 high intensity LEDs
- **Mounting:** surface
- **Power supply:** 9-32 volts DC
- **Temperature:** -40°C to +85°C
- **Dimensions in mm (L x w x h):** 85 x 36 x 15
- Top-end LED performances
- Very thin lights for installation on the grille
- Long service life
- Available in several colours
- Fixing for easier installation
- Low energy consumption
- EMC R10 and ECE R65 Class 2 approved
- R 148 approved for white version (*reverse light*)



Name	Kit	Code
L54 LED light Amber 10-30V	Single	29985
L54 LED light Amber10-30V	Double	29986
L54 LED light Red 10-30V	Single	29982
L54 LED light Red 10-30V	Double	29983
L54 LED light Crystal 10-30V	Single	29984
1 Universal bracket (<i>per pair</i>)	-	30016
2 Bracket for Volkswagen T6 (<i>per pair</i>)	-	30014
3 Bracket for Mercedes Vito/ Sprinter (<i>per pair</i>)	-	30015
4 Mounting kit for directional L54 light	-	30255



APPROVED
R65
EUROPE

DELIVERY
24^H

Meteorit

Meteorit 3 LED	Code
Meteorit: white	28137
Meteorit: amber	28138
Meteorit: red	28139
Meteorit light bracket	28982
Self-adhesive bracket	29655

See technical specification in section
"Equipment for emergency vehicles" page 31

APPROVED
R65
EUROPE

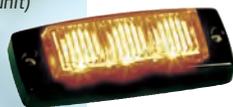
DELIVERY
24^H

Meteorit 4 LED

Meteorit 3 LED	Code
4 LED Meteorit Amber	28142



Meteorit
(sold by unit)



Meteorit 4 LED



Bracket

APPROVED
R65
EUROPE

DELIVERY
24^H

Quartz - L88

Name	Code
Amber QUARTZ grill light	25573
90° Stainless-steel mounting for QUARTZ light	25748
Plastic bracket QUARTZ light	27939

See technical specification in section "Equipment for emergency vehicles" page 31



Quartz
(sold by unit)



Quartz bracket



L51
(sold by unit)



APPROVED
R65
EUROPE

WARRANTY
3
YEARS

L51

Name	Code
L51 LED light Amber 10-30V	28697
L51 LED light Red 10-30V	28698
L51 LED light Green 10-30V	28699
L51 LED light White 10-30V / Side searchlight	29134
L51 LED light White 10-30V / Zone searchlight	29135

See technical specification in section "Equipment for emergency vehicles" page 37

#3 - EQUIPMENT FOR SERVICE VEHICLES

300 mm lights **L9M**



TECHNICAL SPECIFICATIONS

WARRANTY
3
YEARS

- Warning lights
- L9M class as per EN 12352
- Parabolic 300 flash light - 12V/24V (2 amber colour lights)
- Composed of seven 74 mm led lights
- Black housing
- Electronic system built into the lights
- Mounted at the rear of the light or under the light
- **Thickness:** 70 mm
- Diameter 330 mm



Name

Bi-signal lights 300 mm

Code

25997

200 mm lights **L8H**



TECHNICAL SPECIFICATIONS

WARRANTY
3
YEARS

- **70 high intensity LEDs:** amber C1 + C2
- **Certification:** EN 12352 - Compliant with the L8H standard Class C1 - F2 - O1 - M2
- **12V model consumption:** 0.6 A fixed and 0.3 A flashing
- **24V model consumption:** 0.22 A fixed and 0.11 A flashing
- Protection against saline mist
- **Dimensions:** 225mm x 55mm - Weight: 400 g
- **Bi-signal kit:** Electronic unit
Synchronised or alternating lights (to be specified)



Name

Bi-signal 200 (2 lights + 1 unit) 12 V

Bi-signal 200 (2 lights + 1 unit) 24 V

200 mm LED light - 12V

200 mm LED light - 24V

Code

17068

23872

27961

27985



Traffic director range

MTD 68



Name	Colour	Code
MTD 68 (680 mm)	Amber	31106
	Blue	31657
	Red	31658
	Green	31659

MTD 80



Name	Colour	Code
MTD 80 (800 mm)	Amber	31107
	Blue	31660
	Red	31661
	Green	31662

MTD 103



Name	Colour	Code
MTD 103 (1030 mm)	Amber	31108
	Blue	31663
	Red	31664
	Green	31665



TECHNICAL SPECIFICATIONS

- Number of LEDs per light: 4
- Consumption per light: 3 W
- Classification as per EN 12352:
 - Mode KR1: L2H, C1+C2, F2, O1
 - Mode KR2: L2L, C1+C2, F2, O3
- Aluminium black profile
- IP 67
- KR41 Compliant
- Power supply: 12/24V
- EMC R10 approved
- Can be controlled using a CCS control panel
- > See page 135

LED Bar MTD 68

- Dimensions with mounting (L x h x d) in mm: 685 x 47 x 37
- Number of lights: 6
- Power: 19 W
- Weight: 2,10 kg

LED Bar MTD 80

- Dimensions with mounting (L x h x d) in mm: 800 x 47 x 37
- Number of lights: 7
- Power: 22 W
- Weight: 2,30 kg

LED Bar MTD 103

- Dimensions with mounting (L x h x d) in mm: 1030 x 47 x 37
- Dimensions without mounting (L x h x d) in mm: 1020 x 47 x 37
- Number of lights: 9
- Power: 28 W
- Weight: 2,5 kg

#3 - EQUIPMENT FOR SERVICE VEHICLES

Laser Searchlight

LED motorized searchlight + remote control

PRODUCT

WARRANTY
2
YEARS

Powerful searchlight for permanent mounting. Supplied with a remote control, design and easy to use, wired or wireless. Quick adjustment of the projector speed and rotation.

Remote use: possibility of controlling the projector in bluetooth via an application downloaded on smartphone. Automatic reset switch.

TECHNICAL SPECIFICATIONS

- **Magnetic version:** speed hold up to 110 km/h
- **Cable length:** 2,70m
- **Power supply:** 12 / 24V
- **Angle of rotation:** vertical -60 ° / horizontal -360 °
- **Dimensions (L x W x H):** 191.9 x 173.4 x 183.3 mm
- **Maximum power:** 60W (6 x CREE LED 10W)
- **Beam color:** 6984 K
- Polycarbonate lens and casing
- **Searchlight in polycarbonate and aluminum**
- **Alloy Operating temperature:** -30 ° C to + 80 ° C
- 2 years warranty
- **Protection index:** IP65A

APPROVALS

- ECE R10, CISPR25 Class 2

Projoled

TECHNICAL SPECIFICATIONS

WARRANTY
3
YEARS

Electrical properties:

- Power supply voltage: 10 V / 30 V DC
- Power: 12W
- Consumption: 1A at 12V / 0.5 A at 24V

Light power:

- Mechanical specifications 4 high intensity LEDs
- Aluminium casing - polycarbonate lens - IP 66
- Dimensions (h x w x d): 33mm x 106 mm x 40 mm
- Mounting: using M4 bolts on the rear or M5 bolts on the side

APPROVALS

- EMC Approval under directive 2006/28 (n°e2*72/245*2006/28*09013) & regulation R10 (E2 10R03 09013)
- CISPR25 (2002): class 3 compliant rom 0.15 to 1000MHz radiated



Laser searchlight 2 with wired control remote



Bluetooth control remote



Magnetic Laser searchlight 2

Name	Code
Laser searchlight 2 with wired control remote permanent mounting	28131
Laser searchlight 2 with wireless control remote permanent mounting	28191
Laser searchlight 2 with wireless control remote magnetic mounting	34507
Extension cable for laser searchlight 2 Length: 4 m	28242



Projoled on universal mounting



Magnetic Projoled



Battery operated Projoled

Name	Code
Projoled without mounting	22433
Projoled with universal mounting	23315
Magnetic Projoled (5 m cable)	23489
Magnetic Projoled (spiral cable)	24171
Battery operated magnetic Projoled (12V charger)	23488
Battery operated magnetic Projoled (220V charger)	27161

Accessories	Code
12V charger with DIN cigar lighter plug	23710
220V charger	23709

Projoled XL2



PROJOLED XL2.C - CONVERGENT



PROJOLED XL2.D - DIFFUSANT



TECHNICAL SPECIFICATIONS

- **Input Voltage:** 9-32 V
- **Power:** 24 W
- **Housing:** aluminum alloy
- **Lens:** polycarbonate
- **Cable:** 350 mm
- **Cable power:** 36 W
- **Color temperature:** 6000 K Consumption : 2A à 12V
- **Operating temperature:** -30°C à +60°C Reverse polarity protection
- **LED Lifetime:** 50 000 hours
- **Enclosure rating :** IP 65 IK 08
- **Approval :** CE E-MARK R10

XL2.c : converging

- **Dimensions > converging:** 128 x 110 x 55
- **Weight:** XL2.c, 450 Gr
- **Luminous flow:** 1800 lumens

XL2.d : diffusing

- **Dimensions > diffusing:** 137 x 125 x 55
- **Weight:** XL2.d, 550 Gr
- **Luminous flow:** 1500 lumens

Name	Code
Projoled XL2.c - converging	30891
Projoled XL2.d - diffusing	30892
Projoled XL2.c - converging - Pipe-mounted	31140
Projoled XL2.d - diffusing - Pipe-mounted	31141

L98 lightbar



- Easy to install lightbar with excellent performance for money
- Triangular design allowing many mounting positions, either vertical or horizontal.
- Compatible with a high number of applications, including engine compartment opening lighting, interior lighting...



TECHNICAL SPECIFICATIONS

- **Power supply voltage:** 10-30 V
- **Light power:** 100 lumens
- **Material:** aluminium
- **Lens:** translucent
- **LED colour:** white
- **Number of LEDs:** 12 or 24 depending on the model
- **Lighting colour:** 4500-5600 K
- **Mounting:** surface
- **Dimensions:** 295 x 22.4 x 17.3 mm
547 x 22.4 x 17.3 mm
- **Operating temperature:** -30°C to +60°C
- **Protection index:** IP67
- **Product approval:** EMC R10



Name	Code
L98 LED Light bar - 295 mm	30426
L98 LED Light bar - 547 mm	30427
L98 LED Light bar - 1051 mm	34499

#3 - EQUIPMENT FOR SERVICE VEHICLES

L52 HHS

The L52 HHS is a small, portable hand lamp with a magnetic base. Thanks to its compact design, it can be temporarily attached anywhere on the vehicle when needed.

The direction of radiation can be adjusted so that the L52 HHS shines where the light is needed.

PRODUCT



- Small, compact, portable
- Reliable by using the proven L52 headlight module
- Connection via the cigarette lighter plug
- Beam direction freely adjustable
- Magnetic base for fastening anywhere on the body
- Two brightness levels, switchable
- 12/24 V capable

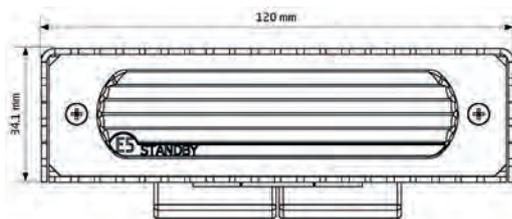
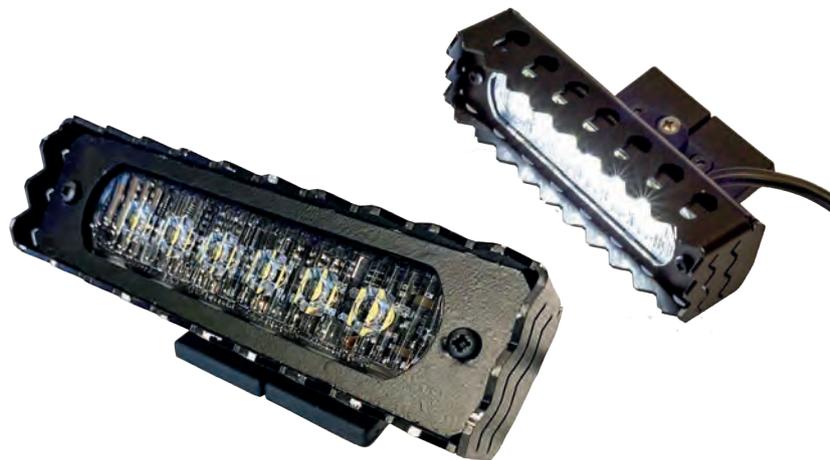


TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12/24 VDC (10...30 VDC)
- **Current consumption:** at 12V: 1.0 A - at 24V: 0,5 A
- **LED-colour:** white
- **Lens colour:** clear
- **Amount of LEDs:** 6
- **Cable:** 2m, with cigarette lightning plug
- **Mounting:** surface mount, magnetic version
- **dimensions:** max. 120 x 34,1 x 74 mm
- **Protection class:** IP65
- **Ambient temperature:** storage / transport: -40°C...+85°C
in operation: -25°C...+70°C
- **Weight:** with cable: 390 g - without cable: 190 g

APPROVALS

- EMC: E5-05235



SPECIAL CONVOY VEHICLES

Signalling Bar

Special convoy or agricultural convoy signalling sets



WARRANTY
3
YEARS

NEW

- Combination of two elements which are compulsory under the French 4 May 2006 order
- Highly reflective micro prism and LED lighting technology
- Panel visibility over more than 300 m
- Panel can be folded away when not in use
- Easy to install and use
- **Approved R65 Gyroled:**
reduced consumption and zero maintenance



TECHNICAL SPECIFICATIONS

- **Total unit dimensions:**
 - **Unfolded (L x D x H):** 1470 x 930 x 450 mm
 - **Folded (L x D x H):** 1470 x 930 x 150 mm
- Amber rotating Gyroled
- Class 1 on ISO base
- **Weight:** approx. 15 kg
- Structure in uncoated aluminium
- Double sided "**Special Convoy**" or "**Agricultural convoy**" aluminium panel
- **Dimensions:** 1100 x 400 mm
- Yellow Class B microprism film
- Maximum speed: 110 km/h*
- Supplied with a 4.5 m cable harness and mountings (by drilling the roof)

* Depends of the vehicle roof structure.

Name	Code
Signalling set « Convoi Exceptionnel »	30860
Signalling set « Convoi Agricole »	30886



SERVICE
VEHICLES





Roof systems

#4

ZENO Gamme

Emergency light arrows 23 lights.....116

Emergency light arrow 15 lights.....117

AKIO Gamme

Message panels with frame.....118

NORA Gamme

14 lights arrows.....119

Message panels without frame.....120

Pop-up encased triangle.....121

Roof systems options.....122

Technical information.....126

ROOF SYSTEMS, WHAT IS THAT?

Emergency Light Arrows

> Directs traffic



23 lights L8H



14 lights L2H



15 lights arrow

- Powerful LED lights approved: EN 12352
- Electric raising system
- Magnetic limit switch sensor
- Automatic day / night brightness adjustment by a twilight sensor

Options :

- Pre-warning Traffic Director
- L9M flashing warning lights 300 mm (increases visibility in fog)



Variable Message Panel

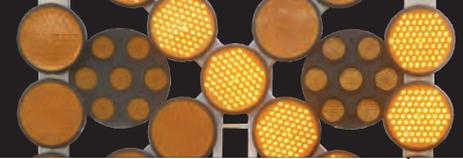
> Informs motorists



- High visibility
- Up to 100 messages
- 12 characters by word
- 3 words / message
- Approved: EN 12966 & NFXP98-573 (France)

Possibility to display messages in mode:

- Fixed
- Flashing
- Scrolling



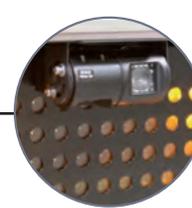
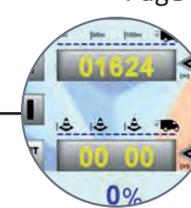
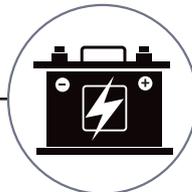
Signalling triangle
 > Alerts

- Standard sizes: 500, 700, 1000, 1250 mm
- Screen-printed Class 2
- Electric lifting system with magnetic limit switch sensor 74 mm LED light: Powerful
- L2H approved EN 12352

Control panel
 > Ergonomics and control

- Tactile graphic panel control
- Easy to use with scrolling menu
- Indicates activated security elements that are out of the operator's view such as arrow position, Gyroled mode, ...

Several options
 > Page 141

 <p>WiFi</p>			
<p>COMMUNICATION OPTION DIRECTLY INTEGRATED IN THE ROOF SYSTEM</p>	<p>GYROLED R65 CLASS 2</p>	<p>VIDEO</p>	<p>TOPOMETER</p>
			
<p>AUXILIARY BATTERY MANAGEMENT</p>	<p>WIND PROTECTION</p>	<p>ANTI-THELF WITH ENGINE ON</p>	<p>FULL CONTROL ON TABLET OR SMARTPHONE</p>

ROOF SYSTEMS

#4 - ROOF SYSTEMS



▶ Signalling units combined



- **Light, strong aluminium unit:**
 - Corrosion-resistant and recyclable
- **Energy saving:**
 - Option of having LEDs for all the lighting components
 - Built-in energy management
 - Multiplexed control
- Compact sized unit
- Fast delivery: 4 weeks from the order date
- Standby-Mercura® quality
- Light power
- Safety
- Regulatory and approved: XP P 98-573 Standard



ENERGY SAVINGS, **HIGHT BRIGHTNESS**



Our roof systems are divided into **3 ranges** to suit all types of vehicles:

- **Zeno** > 23 lights arrow (L frame)
- **Nora** > 14 lights arrow (M or L frame)
- **Akio** > without arrow (S, LS or L frame)

> Find the detailed specification of all the elements that make up a roof assembly in the **"technical information"** section on page 126.

To find out the prices of the roof systems, consult your sales representative.



ZENO > Page 116



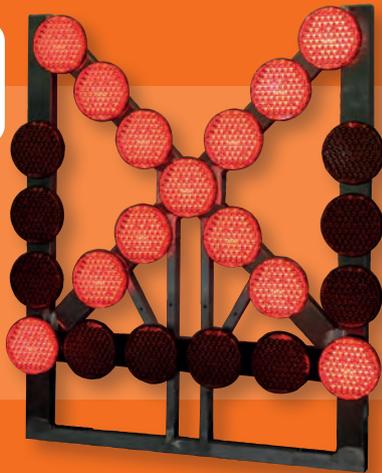
NORA > Page 119



AKIO > Page 118

2022 New features

**NEW
2022**



From 2022, all our units equipped with emergency light arrows will have **the red cross function**.
(The lights concerned will be dual color red/amber).



The LED pictogram triangle will be available as an option from 2022.

#4 - ROOF SYSTEMS

EMERGENCY LIGHT ARROWS 23 LIGHTS (KR43)

Frame L	VMP	Triangle	Code 12V	Code 24V
ELA 23 LIGHTS (KR41 - KR43)	200	-	25601	25602
		-	25603	25604
		1000	25605	X
		1250	25607	X
	250	-	25609	25610
		1000	25611	X
		1250	25613	X

Options	Code
2 x M80 amber beacon class 1 - ISO mounting	31064
2 x M80 amber beacon class 1 - Pipe-mount	32665
2 x M80 blue beacon class 1 - ISO mounting	32260
2 x M80 blue beacon class 1 - Pipe-mount	31914
2 x M130 amber beacon class 2 - ISO mounting	30911
2 x M130 blue beacon class 2 - ISO mounting	30912
2 x classic amber beacons class 2 - ISO mounting	25616
2 x kombi beacon (amber rotating class 2 and blue flashing class 1)	25617
Winter light : 1 x classic blue beacon class 2 Fixation hampe + HP et sirène ton. ASA	24909
2 x 300 mm warning flashing lights	24925
2 LED work lights	25507
Video kit *	29707
Topometer *	30180
Anti-theft for roof systems *	CU
Safety - Protection of components from relative wind	25615



L frame
Weight approx. 150 kg



Touch screen
control panel
(dimensions: 150 x 230 mm)

* For roof systems with VMP only > **Options, see pages 122.**
Detailed technical specifications of the 23-light arrow, page 129.



DELIVERY
4
WEEKS

WARRANTY
2
YEARS

Emergency light arrows 15 lights



- **Aluminium unit:** light and strong, corrosion-resistant and recyclable
- Compact sized unit
- Graphic screen control
- Light power and Mercuria quality
- Safety, very low wind resistance
- **features:** left and right arrow, cross and scrolling
(with option KR41 traffic director)

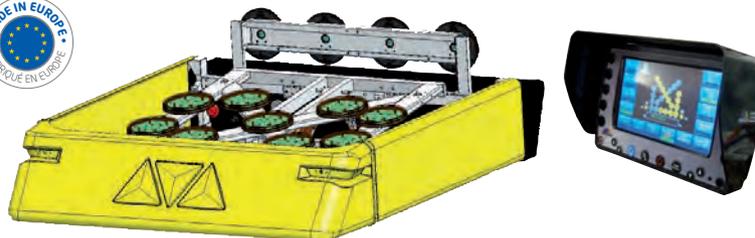
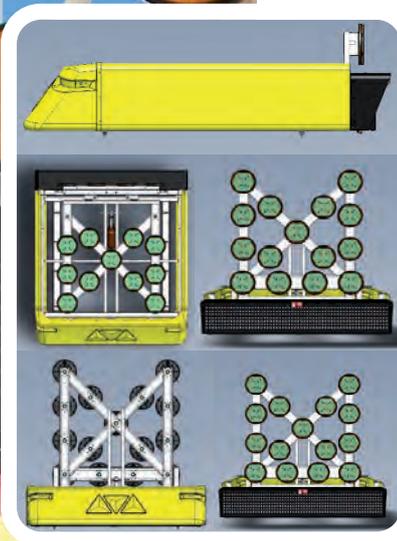


TECHNICAL SPECIFICATIONS

- **Frame:**
All frames and protective casings are made of aluminium
The deflectors and casings of the units are painted with automotive paint.
The following colours are available as standard: Amber (RAL 2000), White (RAL 9016), Yellow (RAL 1016), Fire brigade red (RAL 3000).
Consult us for more colour options.
- **Arrow:**
 - Power supply 12 V or 24 V
 - 15 x 200 mm LED lights
 - 200 mm lights compliant with **EN 12352**
- **Light specifications:**
 - Light dimensions: 225 x 55 mm
 - **Weight:** 400 g
 - **Certification:** EN 12352
compliant with the standard L8H - Class C1 - F2 - 01- M2
 - **12 V model consumption:** 0,6A fixed and 0,3A flashing
 - **24 V model consumption:** 0,23A fixed and 0,11A flashing
 - Light power in candelas: 2100Cd (required standard minimum: 1500Cd)
 - **Operating temperature:** -40°C to +85°C
 - Raised by an electric jack
 - Day/night adjustment of light intensity

Options:

- KR41 pre-warning traffic director (4 x 200 mm LED lights)
for scrolling (see drawing)
- 200 mm Variable Message Panel dimensions: 1558 x 294 x 200 mm
- Amber Gyroled Class 1 or Class 2, rotating or flashing
- R65 approved



#4 - ROOF SYSTEMS

MESSAGE PANELS WITH FRAME

Variable messages

Frame	VMP	Triangle	Code 12/24V	
S	160	-	25701	
		500	25702	
		700	25703	
	200	-	25704	
		500	25705	
		700	25706	
			12V	24V
LS*	200	1000	25707	X
	250	1000	25711	X
L	200	1250	25709	25710
	250	1250	25713	25714

* Shorter Frame: see dimensions page 128

Limited messages (6 messages)

Frame	LMP	Triangle	Code 12/24V	
S	160	500	25715	
		700	25716	
	200	500	25717	
		700	25718	
			12V	24V
LS*	200	1000	25719	X
	250	1000	25723	X
L	200	1250	25721	25722
	250	1250	25725	25726

* Shorter Frame: see dimensions page 128

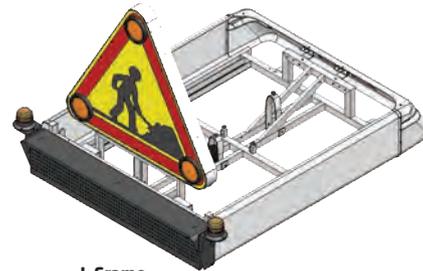
Options	Code
Screen printed AK14 1000 Class BP Prismatic	25689
Screen printed AK14 1250 Class BP Prismatic	25690
Standard blue	24908
Winter blue	24909
300 mm warning flash lights (on 1250 mm Triangle)	25618
Safety - Protection of components from relative wind (Triangle 1000-1250)	25615
Two LED work lights	25507
Amber Gyroled Class 2	25616
Gyroled Kombi (Amber rotating Cl.2 and Blue flash Cl.1)	25617
Pipe-mounted Gyroled class 1	28198
Video kit*	29707
Topometer*	30180
Anti-theft for encased unit*	NC
Amber Gyroled M130 Class 2 x 2 with supports	30911

* For units with VMP only.

CU : Consult us



S Frame
Weight approx.
45 kg



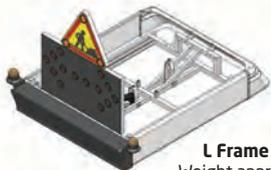
L Frame
Weight approx.
95 kg



LMP Control panel
6 pre-defined messages
(dimensions: 150 x 90 mm)



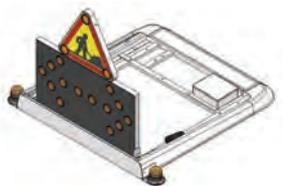
LS Frame
Weight approx.
75 kg



L Frame
Weight approx.
95 kg



LMP
Control panel
6 pre-defined
messages



M Frame
Weight approx.
70 kg

14 LIGHTS ARROWS



With variable message panels

Frame L	VMP	Triangle	Code 12V	Code 24V
ELA 14 LIGHTS (KR42)	200	-	25627	25628
		500	25629	25630
		700	25631	25632
	250	-	25633	25634
		500	25635	25636
		700	25637	25638

With limited message (6 messages) panels

Frame L	LMP	Triangle	Code 12V	Code 24V
ELA 14 LIGHTS (KR42)	200	-	25639	25640
		500	25641	25642
		700	25643	25644
	250	-	25645	25646
		500	25647	25648
		700	25649	25650

«M» frame

	Triangle	Code 12V	Code 24V
ELA 14 LIGHTS (KR42)	-	25621	25622
	500	25623	25624
	700	25625	25626

Options	Code
Standard blue	24908
Winter blue	24909
Two LED Gyroled Class 2	25507
Amber Gyroled Class 2	25616
Safety - Protection of components against relative wind	25615
Gyroled Kombi (Amber rotating Class 2 and Blue flash Class 1)	25617
Video kit*	29707
Topometer*	30180
Anti-theft for encased unit*	NC
Amber Gyroled M130 Class 2 x 2 with supports	30911

* For units with VMP only.

#4 - ROOF SYSTEMS

MESSAGE PANELS WITHOUT FRAME

DELIVERY
4
WEEKS

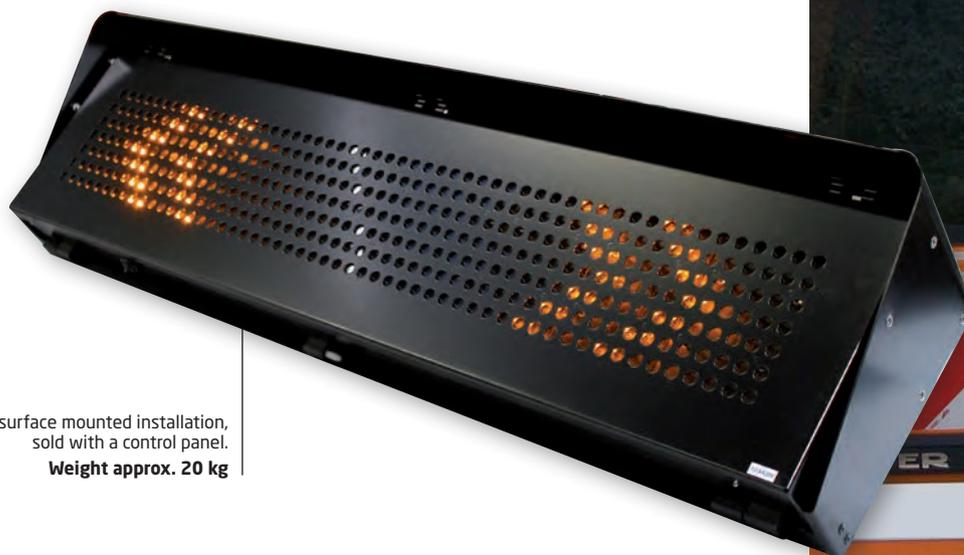
WARRANTY
2
YEARS

VMP size	Code
160	25727
200	25728
250	25729

Options	Code
Gyroled amber Class 1	25699
Gyroled blue Class 1	25700
Gyroled amber Class 2	25616
Gyroled blue Class 2	25619
Video kit*	29707
Topometer*	30180
Anti-theft for encased unit*	NC
Amber Gyroled M130 Class 2 x 2 with supports	30911

* For units with VMP only.

CU : Consult us



For surface mounted installation,
sold with a control panel.

Weight approx. 20 kg



1000 or 1250 pop-up enclosed triangle



TECHNICAL SPECIFICATIONS

DELIVERY
4
WEEKS

WARRANTY
2
YEARS

- 1000 mm or 1250 mm pop-up enclosed triangle
- Double-sided - 74 mm lights
- Screen-printed symbol AK14 (*danger*) or AK31 (*accident ahead*), class T2
- Day/night adjustment of light intensity by a twilight sensor
- **74 mm amber LED lights:**
 - 964 candela photometry
 - Casing in untreated aluminium
 - Dimensions of the unit in mm (*height x width x depth*)

1000 mm triangle

- Deployed: 930 x 1030 x 985
- Folded: 150 x 1030 x 985

1250 mm triangle

- Deployed: 1243 x 1356 x 1276
- Folded: 230 x 1356 x 1276

EN OPTION :

- RAL paint colour to be specified in the order
Paint: Amber DDE (RAL2000), White (RAL9016), Yellow (RAL1016), Fire brigade red (RAL3000)
For other colours: consult us for prices and lead times.
 According to RAL standard to be specified
- **Rear beacons:** Five 74 mm amber LED lights
 Warning mode, all the lights flash together
- Option to side-mount two blue or amber Gyroled®



Options for 1250 triangle	Code
2 blue Gyroleds	30193
2 amber Gyroleds	30194
Screen printed AK 31	30195

TRIANGLE 1000

Symbol	Beacons	Casing	Voltage	Code
AK5 Class B	-	Painted*	12-24V	23270
AK14 Class B	-	Painted*	12-24V	23582
AK5 Class B	Yes	Painted*	12V	27923
AK31 Class B	-	Painted*	12-24V	23583
AK14 Class B	Yes	Painted*	12V	23584
AK14 Class B	Yes	Painted*	24V	23585
AK31 Class B	Yes	Painted*	12V	23586
AK31 Class B	Yes	Painted*	24V	23587

* Standard paint (RAL 2000-3000-9016-1016)
 Option Fluorescent amber RAL 3024 paint

TRIANGLE 1250

Symbol	Beacons	Casing	Voltage	Code
AK14 Class B	-	Painted*	12V	24023
AK5 Class B	-	Painted*	12V	24024
AK14 Class B	-	Painted*	24V	24025
AK5 Class B	-	Painted*	24V	24026
AK14 Class B	Warning	Painted*	12V	24027
AK5 Class B	Warning	Painted*	12V	24028
AK14 Class B	Warning	Painted*	24V	24029
AK5 Class B	Warning	Painted*	24V	24030

* RAL standard paint

ROOF SYSTEMS OPTIONS

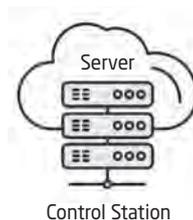
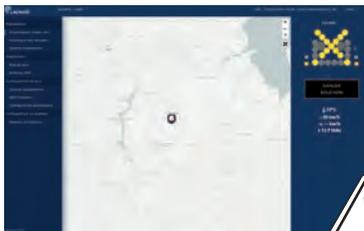
CONNECTED EMERGENCY LIGHT ARROW

A **permanent** and **real-time feedback** of the actions and the state of your Emergency Light Arrow.

FUNCTION N°1 - AUTOMATED UPDATE OF THE ROAD VEHICLE ACTIONS

- Improve the safety of road interventions
- Understand situations on the roads
- Automatic notifications without specific action
- Real-time data: event type, HD location, equipment's status
- Integrate the sectorization of vehicles according to the OCS* via the user management on the application
- Access to a history of data and actions of the road patrol vehicle
- C-ITS / Indeed / CROAD compatible

* **OCS**: Operations Control Station



The patrol vehicle alerts road managers of the nature of its intervention and transmits information about its environment at the checkpoint.

FUNCTION N°2 - AUTOMATED UPGRADE OF ENVIRONMENTAL DATA

- Identify road conditions
- Take the opportunity of the patrols carried out to measure the environment
- Feedback on cartography
- Integration of sensors: speed, anemometer*, temperature*, shock detection

* Only if the sensor is present on the roof system

FUNCTION N°3 - MAINTENING OF OPERATING CONDITIONS

- Limit vehicle immobilization
- Provide technical status of road equipment
- Connect remotely to equipment
- Establish operating statistics



Remote connection for evaluation and maintenance of the road vehicle

ROOF SYSTEMS OPTIONS

WIFI OPTION FOR SIGNALLING UNITS

Control remotely your signalling unit
Standby-Mercura's application for smartphones and tablets

Control remotely your signalling unit



Standby-Mercura's WIFI option allows to control the signalling unit from the outside of a vehicle during road intervention. It therefore contributes to improving security conditions of road users by ensuring a better signalling responsiveness.

This free and user-friendly application controls all the functions of Standby-Mercura's signalling unit:
messages, change of directions, signalling, extinction, etc.



TECHNICAL SPECIFICATIONS

- Secure pairing
- Application available for free on Google Play 
- Use up to 5 devices
- Compatible with signalling unit controlled by XXL graphic panel
- **Compatible with mobile devices:** smartphone, tablet, etc. with Android system (from Version 4.2)
- Wireless connection (complies with the 802.11i standard)
- Connection distance about 50 m in free field

Name	Code
XXL graphic panel option with integrated WIFI connection (remote control via Mercura's WIFI application)	31214



#4 - ROOF SYSTEMS

VIDEO KIT OPTION FOR VPM AND ROOF SYSTEMS

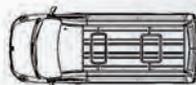
Video system composed of 2 rear view cameras to secure workers, identify road users coming towards the vehicle and make trailer attachment manoeuvres easier.

Standby-Mercura® proposes this system for response vehicles fitted with signalling units.

- See behind vehicles to secure agents working
- **Long view:** to identify road users coming towards the response vehicle
- **Close view:** to protect agents or pedestrians outside the vehicle
- Make it easier to attach ERA or other trailers
- Night vision



Camera vertical angle of vision:
Camera close vision 120° / Camera long vision 45°



Camera horizontal angle of vision: 120°

Name	Code
Video kit (<i>manual start</i>)	29707
Option for video kit - video starts automatically when in reverse	30451
Video kit with option - video starts automatically when in reverse	31613

This kit contains:

- 2 rear view cameras
- Wired bus interface
- Specific crate
- Assembly kit
- RCA video beam 10m (x2)
- Graphic front panel video-compatible 3 video inputs



Screen
with coloured zones



TOPOMETER FOR ENCASED UNITS WITH XXL GRAPHIC FACADE



Add the Topometer function to your encased units fitted with the Standby-Mercura® XXL graphic facade.

- Quick connection, easy to use
- No sensors installed (*data is collected from the vehicle's CAN network*)
- Distance measurement function in forward and reverse
- Measurement of intervals for placing traffic cones, for example
- Compatible with Mercura® encased units (*after 2012*)¹
- Electronic: EMC R10 Standard

Use:

- Topographical readings
- Site measurements
- Installation of temporary signage
- Road markings
- Road maintenance

Name	Code
Topometer option without XXL facade	30180

> Please verify the compatibility with your vehicle before ordering. Consult your sales representative.



*The locking remote control is a secure encrypted remote control with rolling code.



MOTORLOCK ANTI-THEFT OPTION



NEW

WARRANTY
2
YEARS



The MOTORLOCK stand-alone anti-theft is a system that can be installed on professional vehicles to provide 2 security features:

- **ANTI-THEFT** : When activated, it allows the driver to remove the Neiman key while keeping the engine running to power electrical equipment. In addition, the remote control (*optional*) allows you to lock / unlock the vehicle with the anti-theft device active.
- **ANTI-START**: prevents the vehicle from starting if connected to an external system (*mains connector, electricity generator, etc.*)

Any attempt to steal the vehicle with device activated causes the engine to stop!

Name	Code
Motorlock stand-alone anti-theft kit NG connectors (<i>Renault compatible</i>)	29915
Motorlock stand-alone anti-theft kit with locking remote* NG connectors (<i>Renault compatible</i>)	29905

> Please verify the compatibility with your vehicle before ordering. For more information, consult your sales representative.



TECHNICAL INFORMATION

SPECIFIC MOUNTINGS SUITABLE FOR THE MOST COMMON VEHICLES ON THE MARKET

All units are delivered without mountings. Standby-Mercura® offers several mounting solutions:

- Universal mountings with pads,
- Mounting by drilling the roof.

Brand	Model	Frame	L1H1	L1H2	L2H2	L2H3	L3H2	L3H3	L4H2	CC
RENAULT	Master	L-LS	24660	30331	30331	26276	30331	26276 26582*	30331	
		S		30330	30330	26173	30330	26173	30330	28611
			L1H1	L2H1	L1H2	L2H2				
	Traffic	L-LS	23479	23479	31272	31272				
		S	26754	26754	31274	31274				
			L0	L1	L2	Girafon				
Kangoo	S		29763	31266	28214					

* Metallic curtain

Brand	Model	Frame	L1H1	L1H2	L2H2	L2H3	L3H2	L3H3	L4H2	CC
NISSAN	NV400	L-LS	24660	30331	30331	26276	30331	26276 26582*	30331	
		S		30330	30330	26173	30330	26173	30330	28611
			L1H1	L2H1	L1H2	L2H2				
	NV300	L-LS	23479	23479	31272	31272				
		S	26754	26754	31274	31274				
			L0	L1	L2	Girafon				
NV250	S		29763	31266	28214					

* Metallic curtain

Brand	Model	Frame	L1H1	L1H2	L2H2	L2H3	L3H2	L3H3	L4H2	CC
OPEL	Movano	L-LS	24660	30331	30331	26276	30331	26276 26582*	30331	
		S		30330	30330	26173	30330	26173	30330	28611
			L1H1	L2H1	L1H2	L2H2				
	Vivaro	L-LS	23479	23479	31272	31272				
		S	26754	26754	31274	31274				
			L0	L1	L2	Girafon				
Combo	S		29763	31266	28214					

* Metallic curtain

TECHNICAL INFORMATION

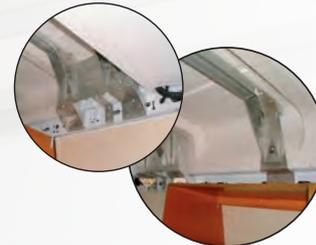
Brand	Model	Frame	L1H1	L1H2	L2H1	L2H2	L3H2	L3H3	L4H2	L4H3	CC
PEUGEOT	Boxer	L-LS	23479	23479	23479	23479	23479	23479	23479	23479	
		S	26754	26754	26754	26754	26754	26754	26754	26754	33129
			L1	L2	Combi	Girafon					
	Partner	S	31268	31268	31268	31268					

Brand	Model	Frame	L1H1	L1H2	L2H1	L2H2	L3H2	L3H3	L4H2	L4H3	CC
CITROEN	Jumper	L-LS	23479	23479	23479	23479	23479	23479	23479	23479	
		S	26754	26754	26754	26754	26754	26754	26754	26754	33129
			L1	L2	Combi	Girafon					
	Berlingo	S	31268	31268	31268	31268					

Brand	Model	Frame	L1H1	L1H2	L2H1	L2H2	L3H2	L3H3	L4H2	L4H3	CC
FIAT	Ducato	L-LS	23479	23479	23479	23479	23479	23479	23479	23479	
		S	26754	26754	26754	26754	26754	26754	26754	26754	33129

Brand	Model	Frame	L1H2	L2H2	L1H3	L2H3
IVECO	Daily	L-LS	23479	23479	23479	23479
		S	26754	26754	26754	26754

Brand	Model	Frame	L2H1	L2H2	L3H2	L3H3	L4H3
FORD	Transit	L-LS	23479	23479	23479	23479	23479
		S	26754	26754	26754	26754	26754



Master H3 mounting
(For metal curtain)

Name	Code
Individual mounting pad kit	25463
Mounting pad kit for S frame	25378
Mounting pad kit for M frame	25396
Mounting pad kit for L frame	26040

(Not recommended for the Ducato / Boxer / Jumper / Master family with S Frame)

> For other vehicles, **consult us.**

Mountings with pads:

- This solution is independent of the vehicle type. It is made by drilling the roof, with rubber reinforcements.

The rubber elements have two functions:

- they spread the load of the mounting across the surface of the roof, avoiding possible shearing of the roof,
- they absorb vibrations and stress produced on the roof of the vehicle by the signalling unit.

TECHNICAL INFORMATION

DIMENSIONS (in mm)

Frame	VMP	Width	Length	Height	Vehicle
L	-	1560	2230	585-1680	UV, HGV
L	200	1560	2227	585-1680	UV, HGV
L	250	1967	2227	585-1680	UV, HGV
NEW LS	200	1560	1816	370-1400	UV, HGV, LUV
NEW LS	250	1967	1816	370-1400	UV, HGV, LUV
M	-	1456	1583	198-1294	UV, HGV, LUV
S	160	1260	860	522-893	LUV
S	200	1560	860	505-893	UV

UV: Utility Vehicles • LUV: Light Utility Vehicles • HGV: Heavy Goods Vehicles

CASING COLOUR

The deflectors and casings of the units are painted using automotive paint.

Standard paints

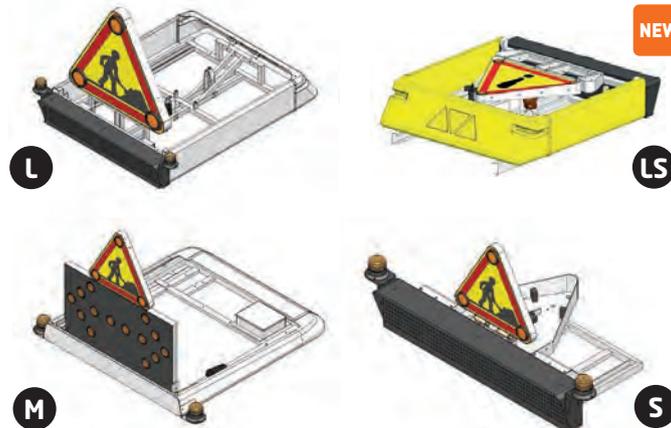
- Amber (RAL 2000)
- White (RAL 9016)
- Yellow (RAL 1016)
- Red (RAL 3000)

Frame type

Frame	Other colours Code	Fluo amber Code
L	24334	24323
M	24333	CU
S	24322	CU

CU: Consult us

> For other colours, please consult us for prices and delivery times. (colour to be precised).

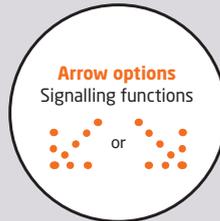


EMERGENCY LIGHT ARROW (KR43)



TECHNICAL SPECIFICATIONS

- 23 200 mm LED lights - According to KR43 standard
- 200 mm lights compliant with standard NF EN 12 352
- Light consumption of 0.6 A at 12 V / 0.3 A at 24 V
- **Light power in candelas:** 2100 cd
(minimum required by the standard: 1500 cd)
- **Light dimensions 200 mm:** 225 mm x 55 mm
Weight: 400 g
- **70 high intensity LEDs:** amber C1 + C2
- **Certification:** EN 12352 - Compliant with the standard L8H - Class C1 - F2 - O1- M2
- **12V model consumption:** 0.6 A fixed and 0.3 A when flashing,
- **24V model consumption:** 0.22 A fixed and 0.11 A flashing,
- **Protection index:** IP66



- Salt spray resistance
- **Arrow dimension:**
1280 x 1564 (width x height in mm)
- Raised by an electric jack
- Day/night adjustment of light intensity

ARROW OPTIONS:

- **RHI strip:** Retro-reflecting screen-printed symbol class 2 colour red and white, to increase the visibility of the arrow when it is deployed,
- **300 mm diameter warning flash lights:** Strengthening of temporary signalling
Consumption of the arrow with 200 mm **LED lights:** 3.9 A/12V - 1.43 A/24V, Consumption for 13 lights in flashing mode.

PRE-WARNING TRAFFIC DIRECTOR (KR41)

Lightbar made up of six 200 mm LED lights
Scrolling type: **Scrolling bar**



TECHNICAL INFORMATION

ARROW 14 LIGHTS (KR42)

- **Dimensions (Width x Height):** 1140 x 689 mm
- Solid black panel, pop-up
- Fourteen Ø74 mm LED lights
- Automatic Day/night light intensity adjustment for the lights using a twilight sensor



Arrow 14 lights



VARIABLE MESSAGE PANELS (VMP)

The Standby-Mercura® range has 3 character sizes available:

- 250 mm, 200 mm and 160 mm in compliance with regulations.
XP P 98-573 Standard

VMP height of 250 and 200 mm:

- Continuous matrix with 10 cards, display of messages with words of up to 11 characters in regulatory format and 12 characters in compressed mode.

VMP height of 160 mm:

- Continuous matrix with 9 cards, display of messages with words of up to 10 characters in regulatory format and 11 characters in compressed mode.

- Automatic day/night intensity adjustment,
- Black aluminium box, supplied with visor and deflector included,
- Model delivered with a 12-key control unit or graphic screen.

VMP light power:

- 12900 Candela/m² (Daytime mode) for 200 mm cards.

Consumption of VMP unit: 3.8A/12V

- 1.9 A/24V (Cards, modules and control panel: for ten 200-mm cards, using the letter "B").

Length	Width	Height	Depth	Recommended use
160	1229	294	200	Secondary roads
200	1558	294	200	Motorways and dual carriageways
250	1935	294	200	Motorways



LED WARNING TRIANGLE

Available sizes: 500, 700, 1000, 1250
LED lights, double-sided, Class T2, electrically raised

- **500 or 700 triangle:**
Three Ø74-mm lights on each side of the triangle, Symbol AK5,
 - **1000 or 1250 triangle:**
Three Ø74 mm lights on each side of the 1000 triangle, Symbol AK14,
Three Ø74 mm lights on each side of the 1250 triangle, Symbol AK14,
- > Please consult us for prices and delivery times of other AK designs.



ROTATING LIGHTS

- > All the units presented are equipped with **Gyroled® Standby-Mercura®**



Other options

Standard blue option

This option includes the order and supply of 1 high flash Gyroled® and an ASA tone siren. It is intended for use on emergency response vehicles or winter maintenance vehicles (*category B*) with right of way.

Permanent

Output powered as soon as the unit is powered on.

- > Maintenance sets for roof systems are available, **consult us.**



Electronic systems

#5



Control kits.....	135
Urgency button H1/P1.....	140
Stand-alone VMP.....	141
Topometer E-ZY.....	142
Motorlock.....	143
MSC 124 /R 124.....	144
Power module, cables, connectors.....	145
Multi Signal Display MSG.....	149
Handheld panel BT-H100.....	150
CSDS.....	151
MCS.....	152
FleetMotus.....	154

standbygroup.com

ELECTRONIC CONTROLS

ELECTRONIC CONTROL SYSTEMS

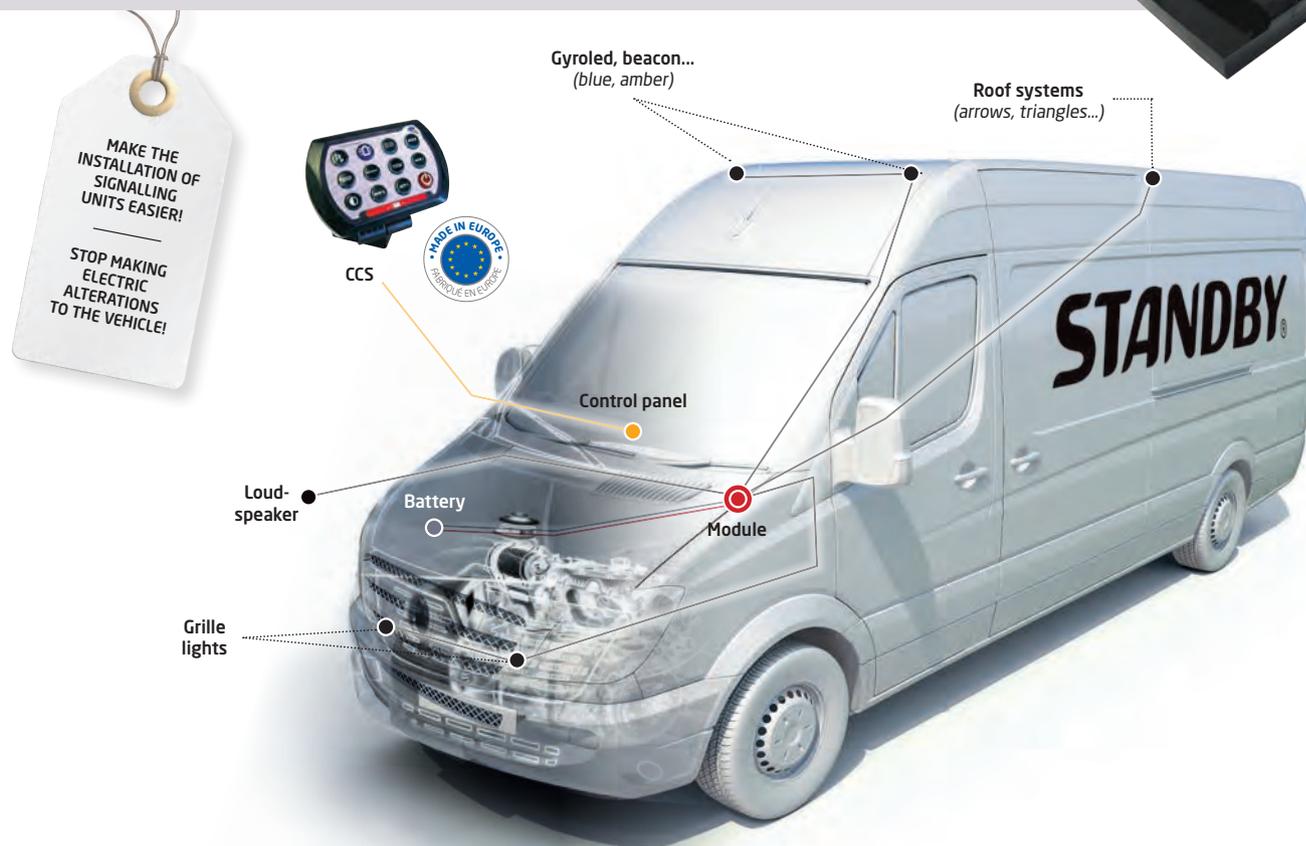
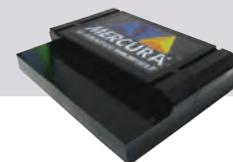
Intelligent management of the extra equipment on board the vehicle

- Option of setting a single button to control the start-up or operating mode of several items of equipment
- Coupling the operation of the devices to conditions selected by the user (hand brake, engine running, day/night...)

Energy management functions such as:

- Coupling extra batteries
- A standby mode
- Low voltage alarms
- Electronic protection of the network and the equipment
- Diagnosis of network and equipment malfunctions
- Automatic, selective and configurable offloading

Compliant with car manufacturer technical specifications, this equipment is installed without modifying the original electrical circuit. Easy to remove, it can be reused on other vehicles.



MAKE THE
INSTALLATION OF
SIGNALLING
UNITS EASIER!

STOP MAKING
ELECTRIC
ALTERATIONS
TO THE VEHICLE!

CCS



Gyroled, beacon...
(blue, amber)

Roof systems
(arrows, triangles...)

Control panel

Loud-
speaker

Battery

Module

Grille
lights

STANDBY

CONTROL KITS

CCS Pack

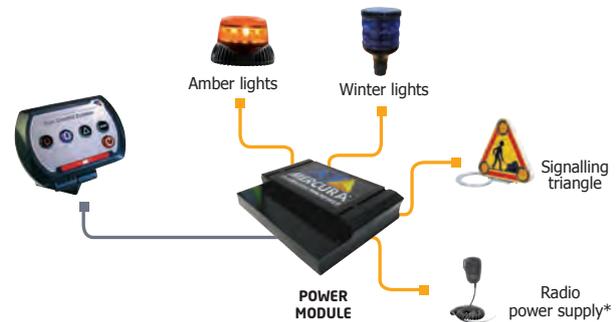
WARRANTY
3
YEARS

PRODUCT
+

- Simple and easy
- No fuse to install
- Battery alarm
- No intervention on the original circuit
- No risk of the vehicle manufacturer's warranty being voided
- Reduced wiring
- Reduced installation time
- Very easy control panel installation
- Adapted to the specific vehicle missions
- Automotive connectors
- **Dimensions:** 69x105 mm



CCS4



CCS4 Pack
Basic

Code 12/24V
26123

CCS4 Lite

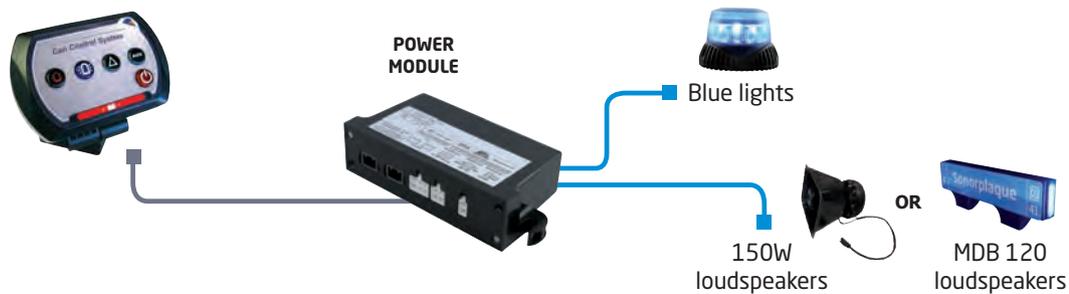


Pack CCS4
CCS4 LITE

Code 12/24V
32136

#5 - ELECTRONIC SYSTEMS

CCS4 LS

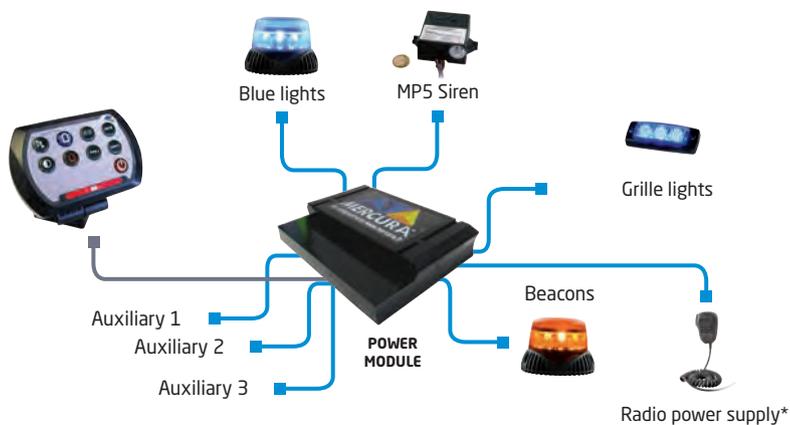


Name	Tone	LS	Code
CCS4 LS 	US Wail, Yelp, Hi-lo, Horn	150 W	28869

Name	Tone	LS (not included)	Code
CCS LS	To be indicated	150 W	29830
CCS LS	To be indicated	30 W	29829

Name	Length	Code
Complete connection harness	6 m	30971



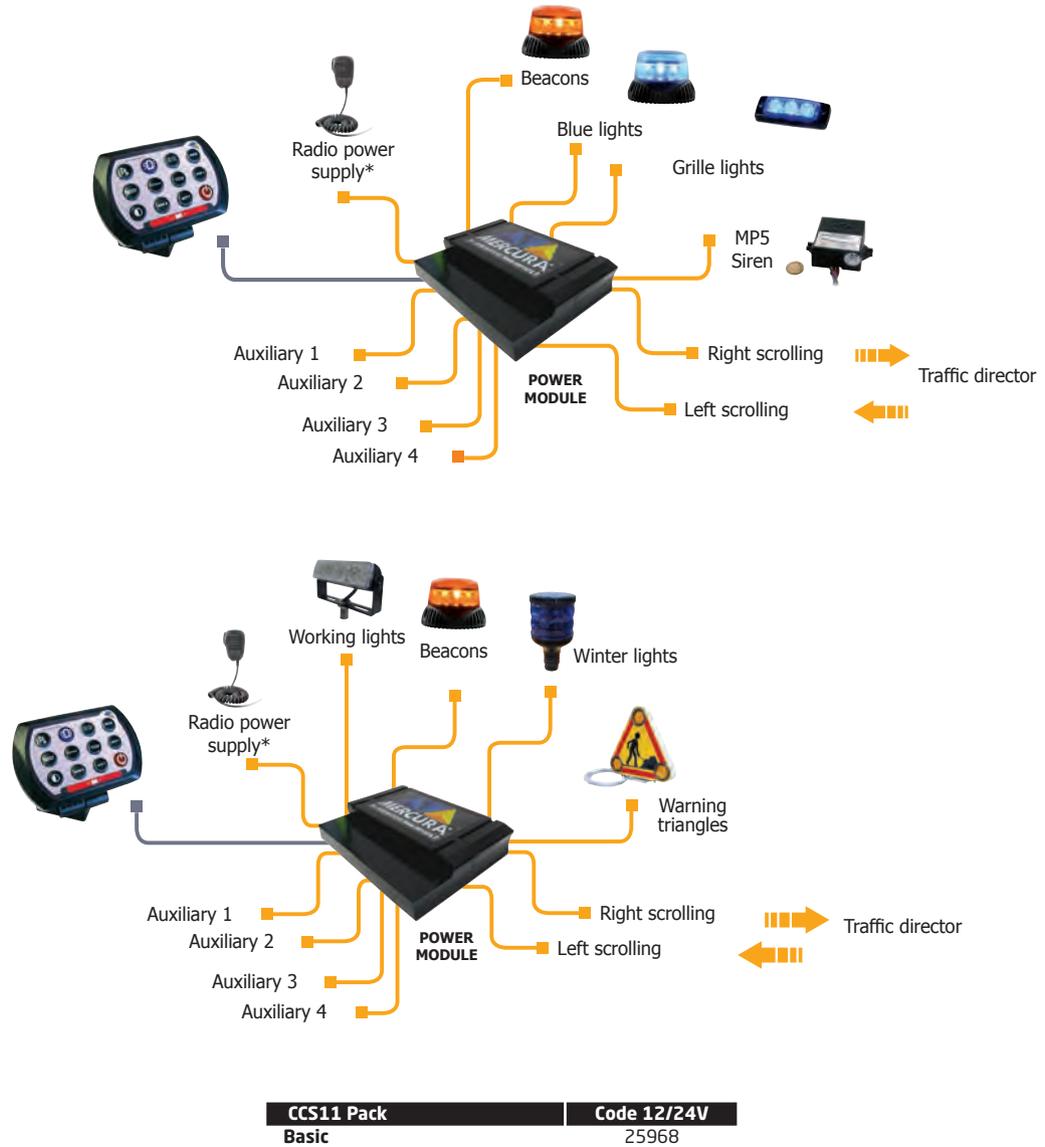


Pack CCS8	Code 12/24V
Basic	26127

* Permanent power supply (battery value) for radios or other power consumers.

#5 - ELECTRONIC SYSTEMS

CCS11



* Permanent power supply (battery value) for radios or other power consumers.

CCS11 with T-panel and built-in topometer function

Technical specifications
> see page 125: stand alone topometer



Pack CCS11
Roadworks with topometer function

Code 12/24V
31101

* Permanent power supply (battery value)
for radios or other power consumers.

#5 - ELECTRONIC SYSTEMS

.....

Urgency button H1/P1



Single button used to trigger the system's key functions when on standby (*blue lights + siren or blue lights only*) by pressing only once without looking away from the road.

Name	Code
H1-P1 Button + standard connections	30665
H1-P1 Button + special lightbar VEGA connections	32188



H1-P1 button on the dashboard.



Stand-alone VMP

Ideal for mounting on a car's parcel shelf



- **Dimensions (L x w x h):** 564 x 25.5 x 107 mm.
- **Character height:** 65 mm
- Automatic switch to Day/Night mode
- 100 messages of 3 x 16 characters
- 7 languages
- 5000 candelas/m²
- Messages can be displayed in static, flashing, alternating or scrolling mode.

Name	Code
Stand-alone VMP (T-panel box included)	30960
Interface for message programming*	25581

* Software interface to change your messages

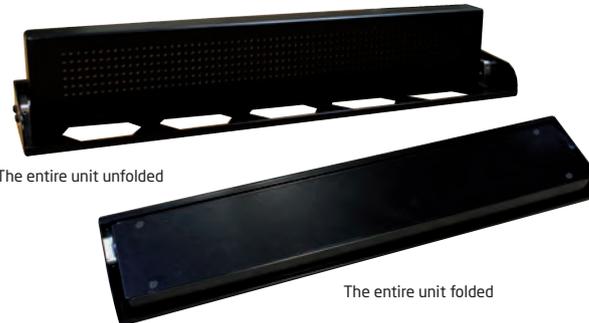
Stand-alone raising VMP



Message display in standard mode



Mirror display



- Electric lift
- No electrical installation or wires to install in the passenger compartment (*wireless control panel*)
- Powerful LED display



TECHNICAL SPECIFICATIONS

- **Colour LEDs:** Red
- **Letter size:** 65mm
- Automatic switch to day / night mode
- 100 messages made of 3x16 letters
- 7 languages available
- Message display in fixed, flashing, alternating or scrolling mode
- Mirror display
- **Dimensions of the panel in mm: (LxPxH):** 564 x 25,5 x 107
- **Dimensions of the entire unit in mm: (LxPxH):** 626 x 120 x 112 (*unfolded*) and 54 (*folded*)
- **Weight:** 2 kg
- **Housing:** aluminium painted black
- **Voltage:** 12V
- **Operating temperature:** -40°C / +85°C
- **Luminous flow:** candela/m²: 5000
- **Approval:** EMC R10
- **Enclosure rating:** IP 42

WIFI CONTROL

- Control via console Android (*smartphone or tablet*) from version 4.4 (2013).
- Creation or change of messages with the free Standby-Mercura* application

Name	Code
Stand-alone raising VMP	32835
Option: control tablet*	32869

* Touchscreen tablet, CPU 8-core 1,6 Ghz, TFT 8" (1280x800), memory 3 Go, stockage 16 Go, android nougat 7,1, micro SD slot, wifi, stylus S-pen included, **colour:** black.

#5 - ELECTRONIC SYSTEMS

E-ZY Topometer

An easy-to-use, efficient and ergonomic product



NEW

WARRANTY
5
YEARS



Intended for road network operators and public works companies, the **E-zy topometer** allows to accompany employees in their various missions while remaining safe in their vehicle. Resulting from the collaboration with our partner KM SIME, the **E-zy topometer** allows employees to be supported in their various missions while remaining safe in their vehicle.

Many features are available :

- Odometer / Topometer
- Interval generator
- Traffic coning assistance
- Counting
- **Odometer / Topometer:**
Metric counter with sub-metric accuracy that allows direct measurement of up to 20 distances and 19 inter-distances.
- **Interval generator:**
Adjustable spacing in 10-meter increments to ensure proper spacing. Cone installation intervals of 13 and 26 meters are also available.
- **Traffic coning assistance:**
Incorporates the most common markup diagrams from the site manager's manual. Assists the agent in the installation of the worksite markings.
- **Counting:**
Event counter providing also the distance traveled as well as the average and maximum inter-distances between events.
- **The strengths of the E-zy topometer:**
 - Installation in 2 minutes on OBD plug
 - Use on different vehicles
 - Different features, easy to use
 - Safe communication with the CAN of the vehicle
 - No stopping of the vehicles



TECHNICAL SPECIFICATIONS

- **Accuracy:** < 0.1% (error < 5m / 1000m)
- **Certificates :** CE, EAC, E1
- Graphic color display 2.8"
- 5 backlit keys + 1 navigation button Power
- **supply:** 8V to 32V
- **Standard:** ISO15765 | SAE J1962 | SAE J2284

ACCESSORIES

- 2 meters extension cord OBD-2 (code : 35451)



	Mounting	Code
1	E-zy Topometer with screw-in base	34998
2	E-zy Topometer with suction cup base	34999

Motorlock stand alone anti -theft

Secure vehicle with running engine from being stolen

The MOTORLOCK stand-alone anti-theft is a system that can be installed on professional vehicles to provide 2 security features:

- **ANTI-THEFT:** When activated, it allows the driver to remove the Neiman key while keeping the engine running to power electrical equipment. In addition, the remote control (*optional*) allows you to lock unlock the vehicle with the anti-theft device active.
- **ANTI-START:** prevents the vehicle from starting if connected to an external system (*mains connector, electricity generator, etc.*)

Any attempt to steal the vehicle with device activated causes the engine to stop!



*The locking remote control is a secure encrypted remote control with rolling code.



- Power supply to electrical equipment without ignition key
- Secure the vehicle doors using the remote control
- Engine shutdown in case of attempted theft
- Two CAN bus interfaces available



TECHNICAL SPECIFICATIONS

Voltage: 12-24V - **Weight:** 280gr

Includes: - Boitier BLM 1 ou BLM 2 - Connectiques, câblage, fiche technique, bouton d'activation, module frein à main

Origin of product: Europe - **Guaranty:** 3 years

Name	Code
Motorlock stand-alone anti-theft kit NG connectors (Renault compatible)	29915
Motorlock stand-alone anti-theft kit with locking remote* NG connectors (Renault compatible)	29905

> Please verify the compatibility with your vehicle before ordering. For more information, consult your sales representative.



#5 - ELECTRONIC SYSTEMS

► MSC 124 Voltage stabiliser / Digital radio converter

PRODUCT

NEW



The **MSC 124** is a stand-alone module that can be used to stabilise a 12V output. It protects electric elements from voltage variations and the stabilised output prevents unexpected power cuts, such as micro power cuts when the vehicle starts up. It is adapted to the new onboard communication technology such as the Antares radio system.

- **EMC approved:**
no risk of interference with the other vehicle equipment
- **Separate module:**
no work needed on the vehicle's original circuit, therefore the manufacturer's guarantee remains valid
- **Easier installation** on electric and hybrid vehicles thanks to its stabilised 12V output

The MSC 124 module can also be used as a 24V-12V converter.



TECHNICAL SPECIFICATIONS

- Converter (*not insulated*) voltage reducer-increaser (DC/DC)
- Fixed 12V output voltage for an input voltage of 5 to 30V
- Power supply 5 to 30 V (*protection from polarity inversions*)
- **1 output:** 10A
- Operating temperature from -40° to +85°C
- **Max consumption with the product turned off:** < 100 µA
- Automotive standard cable harness (*self extinguishing*)
- **Protection index:** IP66 and IK08
- **Dimensions (h x l x w):** 30 x 71 x 89.6 mm
- **Weight:** 200 g
- Automatic 12-24V detection

Name

Code

Voltage stabiliser / converter MSC 124

31193

► R124 Battery desulphator and regenerator

Save time, money and environmental resources by changing your batteries less often!
Maintain the high performance levels of the inner and outer electronics on all your vehicles!

PRODUCT

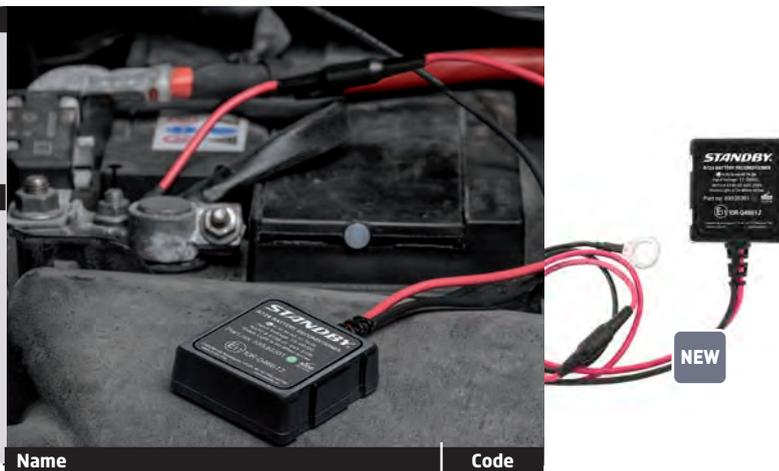
Connecting the R124 to your batteries means you can:

- Minimise the risk of unplanned down time
- Extend the starter motor service life by 25% or more
- Extend the generator service life by 50% or more
- Extend battery service life by 50-100%



TECHNICAL SPECIFICATIONS

- Polypropylene housing
- **Harness length:** 50 cm
- **Voltage:** 12-24V
- **Consumption:** < 20mA
- **Weight:** 65 g
- **Dimensions (L x w x h):** 48 x 45 x 17 mm.
- **Operating temperature:** -40°C to +85°C
- Connection using Ø 6mm eyehole lugs
- **Protection index:** IP67, IP68, IP6K9K
- EMC ECE R10 versions 69530301



Name

Code

R124 Battery desulphator and regenerator

29863

Technical specifications



Power module
CCS 446 or
CCS 446 Evolution



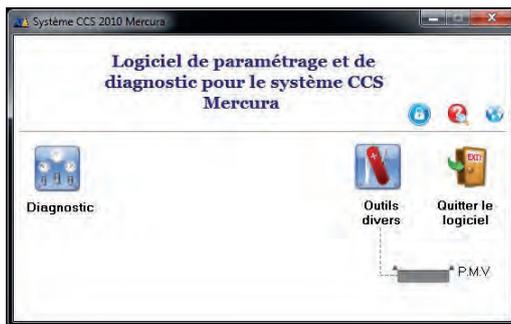
Power module
CCS 292

Output	CCS 292	CCS 446	CCS 446 Evolution
15A	2	3	2
15A reversible		1	1
10A stabilised			1
6A	1		
3A	8	4	4
1,3 A			
1 A		2	2
0,1 A	2		
0.05A		4	4
Total output	13	14	14
Max power	30A	60A	60A
Input			
+ or -	1	2+2	2+2
on +	0		
on -	1		
Analogue		2	2

All our power modules have successfully passed the ECM approvals
They are exclusively fitted with automotive connectors.

CCS CAN software

Your centralised technical assistance tool on a computer!



POWER MODULE

- Ergonomic and easy to use software: instructions are provided to guide the user (*on request*)
- Mercura CCS CAN system diagnosis:
- Fast fault detection
- Indicates input and output status
- Indicates the faulty LEDs on the mobile message panel
- Allows significant user autonomy: there is no longer any need to call the Mercura hotline
- Free diagnosis software, operates on a USB CAN interface
- **Free download from our web site**, downloads section.

#5 - ELECTRONIC SYSTEMS

CABLE HARNESSES - CONNECTORS - ACCESSORIES - INTERFACES

Distribution cable harnesses for consumers

Name	Code
CAN 292 consumer harness - 6m	25985
CAN 446 6m consumer harness - 6m	25986
CAN 602 6m consumer harness - 6m	24990
CCS446 Evolution consumer harness - 6m	25987
Four point harness for CCS 292 block inputs - 6m	25988

Power supply cable harnesses

Name	Code
2x6mm ² harness Length 6m	07435
Cable harness 2x10mm ² Length 10m	07883
CAN 402/602 rear cable harness	25790
CAN 402/602 front cable harness	25789
XXL graphic control panel harness	25903

Connectors

Name	Code
21-point, 4-point connector kit & power supply for CCS292	26259
21-point, 12-point connector kit & power supply for CCS446	26466

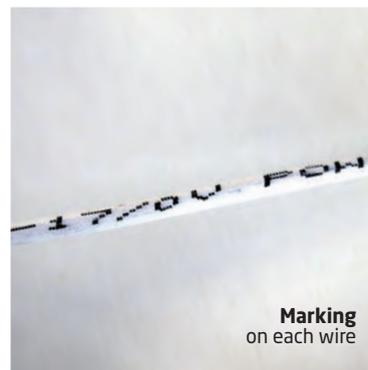
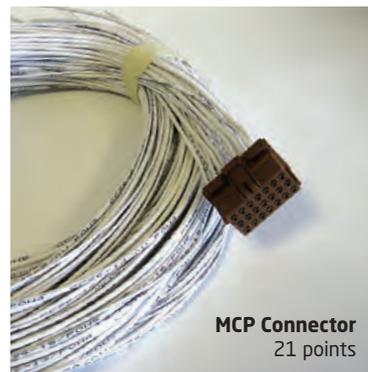
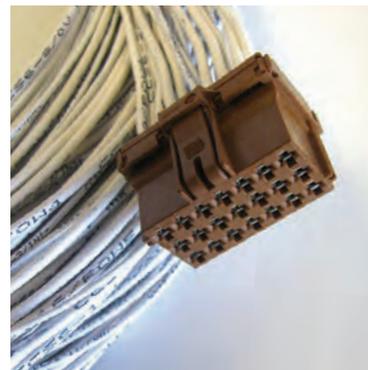
Interfaces

Name	Code
(CAN) for stand-alone heating control	26496
CAN temperature sensor	26504

CPT Connector:

- Machine-crimped
- Over-moulded plug
- **Safety:**
 - Locator to prevent incorrect connections
 - Blocking clip to prevent disconnections due to vehicle vibration

All the cable harnesses are manufactured using machines. They are designed according to applicable automotive standards and are subjected to severe quality controls. These connectors are referenced and used by Renault Truck and Mercedes.



CABLE HARNESSES - CONNECTORS - ACCESSORIES - INTERFACES

Communication Bus

Communications buses of different lengths:

To cater for all types of installation **Standby-Mercura®** proposes a choice of different lengths of communications Buses.

Name	Code
CAN BUS Length 0.3 metres	26594
CAN BUS Length 0.7 metres	25677
CAN BUS Length 4,5 metres	23858
CAN BUS Length 6 metres	23859
CAN BUS Length 10 metres	23860
CAN BUS Length 5 metres without overmoulding on the control panel side	26596
Adaptateur CAN BUS / CAN BUS	27072

Fuse holder and fuse units

Name	Code
Set 30A fuse holder	26140
Set 40A fuse holder	17620
Set 60A fuse holder	23956
Set 100A fuse holder	17762
Set 150A fuse holder	21996
Set 200A fuse holder	21232
Fuse 40A	15659
Fuse 100A	15651
Fuse 150A	15652
Fuse 200A	15653

Accessories

Name	Code
25A diode bridge	16049
Handbrake module	20570
Encasing panel for 12-key control panel	23912
Articulated arm for XXL Graphic screen fixture	25673
Screen print / Lexan for 4 key control panel	26132
Screen print / Lexan for 8 key control panel	26133
Screen print / Lexan for 11 key control panel	26134
12 V - 150A battery coupling relay	17630
Bag of keys for 12 key control panel	23938
Black articulated support + hardware	20867
Amber triangle switch with built-in LED	28945
White gyroled switch with built-in LED	28946



Switches



CAN Bus



Switches

#5 - ELECTRONIC SYSTEMS



The first full matrix display that complies 100% with the police car guideline. Stop signaling texts (*ASG*) are shown in red font, information signaling texts (*ISG*) are shown in yellow font without limits on the sides.

In addition, these full matrix display modules can be combined in any way and the radiation brightness can be customized. In a van, for example, the required legibility is guaranteed at 100 meters.

The display size is individually adapted to the existing rear window (*both in width and in height*).



Radio Patrol Vehicle Directive

- LED spacing approx. 10 mm
- Two-tone red / yellow
- Built-in light sensor for automatic dimming (e.g. with the tailgate open and the display folded down)
- Beam angle for ASG texts: 8° according to guideline
- ISG texts without restriction, according to guidelines

Control

- Via CANopen, CIA447 (free text and fixed text IDs)
- Compatible with all standby special signal systems
- Further protocols on request



PRODUCT

- Active LED area 210 x 130 mm per segment
- Segments can be combined horizontally and vertically, so different display sizes can be realized
- 12/24 V capable
- Current consumption: max. 2 A per segment
- Quiescent current: <1 mA
- Luminosity: 30,000 cd
- 100% legibility even with 90% tinted rear windows
- Full matrix display for texts, symbols, arrows and logos as changing texts and scrolling texts
- Configuration of the displayed display content using PC software that can be made available if required
- Various housings for installation in the vehicle
- Control of an external speed camera synchronous to the text is possible

TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12/24 VDC (9...32 VDC)
- **Current consumption:**
 - at 13.8V: max. 2 A per segment standby current < 1 mA
- **Luminous intensity:** 30,000 cd
- **Beam angle:**
 - red: 8° acc. directive - amber: without limitation
- **LED-distance:** approx. 10 mm
- **LED-colour:** red / amber
- **Cascadable segments:** theoretically unlimited horizontally and vertically
- **Dimensions:** segment: 210 x 130 mm
- **Ambient temperature:** -40°C

APPROVALS

- EMC: E1 10R 059129
- Enclosure rating: IP 42

#5 - ELECTRONIC SYSTEMS

Handheld panel BT-H100

The handheld panel BT-H 100 combines the operation of the special signal system as well as the voice announcement via the integrated microphone on the loudspeaker of the special signal system.

PRODUCT

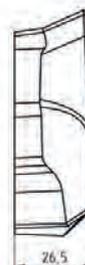
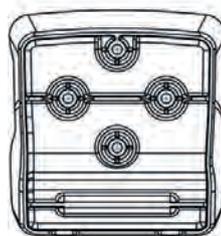
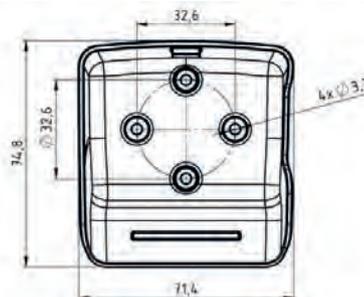
- CANopen 447, roofbar controller compatible, other CAN protocols on request, standby own bus
- 9 programmable shortcut keys
- 2 menu buttons with additional rocker switch for quick navigation in the display menu
- Large illuminated buttons for quick and safe operation, even during the night
- Large backlit LCD display
- 4 multicolored status LEDs, function programmable
- Cockpit bracket with magnetic attachment; universally mountable on the dashboard
- Sits comfortably in the hand, quick and easy operation for driver and front passenger
- Voice announcement option through integrated microphone with PTT button on the right-hand side

TECHNICAL SPECIFICATIONS

- **Operating voltage:** 12 VDC
- **Current consumption:** < 60 mA in operation
< 1 mA in standby mode
- **Ambient temperature:**
 - operation: -40°C...+70°C
 - storage / transport: -40°C...+80°C
- **Protocol:**
 - compatible with all standby public safety systems
 - CANopen447, compatible as roofbar-controller
 - further CAN-protocols on request
- **Connection:** by MQS-connector (VDA)
- **AF-output:** - 400 mV
 - PTT as output (optional in request, no standard)
- **Weight:** approx. 390 g (without cable)

APPROVALS

- E1-10R-058066 (EMC)



CSDS - Center Stack Display Switch

Center Stack Display Switch (CSDS) is a completely unique and long-awaited product that makes it possible to operate a Standby, or an external, computer via the vehicle's original screen.

CSDS is integrated with the vehicle's infotainment system, which provides a clean and safe driver environment and discreet control of vehicle and emergency functions or maneuvering of standard PC functions.

Double tapping the home button switches to the external source view, which means that it is always close at hand. The external source / computer that generates the user interface is easily connected via the computer's HDMI output.

CSDS is developed together with Volvo and fits all 40, 60 and 90 series from model year 2019 onwards.

Please contact us for more information and for which areas it can be used. **Computer not included. To be sold separately, contact us for more information.**



PRODUCT
+

NEW
WARRANTY
3
YEARS

- Unique solution that is integrated into Volvo's infotainment system
- Operate a Standby, or external, computer source / equipment
- Provides a discreet and clean driver environment
- With a double tap on the home button, you can access the car's special functions

TECHNICAL SPECIFICATIONS

- **Housing:** PC/PBT
- **Mounting:** Surface Mount
- **Voltage:** 10-30V
- **Consumption:** 200 mA @12V
- **Dimensions:** 150x58x32 mm
- **Operating temperature:** -30°C - +70°C

TECHNICAL SPECIFICATIONS

- ECE R10 (EMC) for 10-16V

The switch also requires GMSL cables as well as connectors and pins. We recommend the following products that are ordered separately:

#5 - ELECTRONIC SYSTEMS

► **MCS Compact Control Systems** • Ideal for simple installs where separate or no siren is required.

MCS Compact Control Systems consist of one or two **MCS-6E** multi-functional control units complete with the appropriate switching option. They are quick and easy to set-up and ideal for installations that do not require a great deal of sophistication. They operate by simply translating the press of a button that in turn activates the associated individual or selection of outputs. The simplest operation is offered by the

MCS-6E working in conjunction with one of the discreet switch options; UNO or UNO Advanced, or the Multi switch systems. The Mini, Midi and Maxi systems have the ability to be programmed directly via a combination of key pad presses, this not only allows initial set-up to be rapidly achieved, but also quick implementation of any changes that may be required.

Uno Systems

The entry level Uno systems have two versions available, the first being the Uno and the second being the Uno Advanced. The **UNO** has two outputs per button press while the Uno Advanced has three outputs on the 1st press, two outputs on the 2nd press and an additional handbrake input to inhibit the 2nd press if the handbrake is not applied.



Uno Latching and Momentary Systems

The MCS-6E Mini Control Unit is pre-programmed to accept up to 4 positive inputs and 2 negative inputs via suitable latched low current switches or suitable momentary low current switches. However, not all have to be used as it depends upon the configuration required.



MCS Mini System

A single MCS-6E Control Unit combined with a 7 button handset provides 6 individual function buttons and 1 combination button. The combination button can have a multi-function 'HOT' key action depending on the required function. Based upon established tactile switch technology that can be 'user' programmed. Quick and easy to set-up, they are ideal for installations that do not require a great deal of sophistication. With the ability to be programmed directly from the handset there is no need for a PC and associated software to configure the control unit.



MCS Midi and Maxi Systems

Two MCS-6E Control Units are ganged together via a CAN Bus connection to effectively double the systems control capacity. Providing up to 12 individual or combined functions.

A 9 or 14 button handset provides individual function buttons and either 1 or 2 combination buttons. Based upon established tactile switch technology that can be 'user' programmed. These systems have all the features of the MCS-MINI system with the benefit of increased operational facilities.



MCS Control Units are user programmable devices for managing hazard warning lights and power related functions on Emergency Services vehicles. Standard units incorporate a 100 Watt siren with both UK and European tones. These devices incorporate a host of discrete on/off and various data protocol inputs and outputs to control a wide variety of applications.

The main feature of these devices is their ability to be fully 'user'programmed. Any input or combinations of inputs can be used to control any output or combination of outputs as operationally specified for vehicles used by the Emergency Services. Human machine interface is normally carried out via one of our many multi-Way switch panels or handsets or individual switches.



MCS-32 & MCS-16

MCS-32 and MCS-16 Control Units consist of a main control box which contains everything required to control a vehicle mounted hazard warning system, typically comprising roof top lighting, secondary hazard warning lights and audio equipment.

The MCS-32 has 32 outputs and 24 configurable inputs while the MCS-16 has 16 outputs and 16 standard inputs with power management functions including run lock, split charging, load shedding and headlight flash, plus many more, some of which may be implemented via the vehicle CAN Bus system.

They also include a logic switch module to facilitate the control of a Gateway radio with voice alerts.

MCS-8

The MCS-8 Control Unit consists of a main control box which contains everything required to control a 'complete but optimised' vehicle mounted hazard warning system, typically comprising of a rooftop lightbar, secondary hazard warning lights and audio equipment.

It has 4 high power outputs, 4 dual purpose inputs and medium power outputs as well as 6 dedicated inputs. It includes power management functions including run lock, split charging, load shedding and headlight flash, plus many more.

It also includes a logic switch module to facilitate control of auxiliary add-on devices such as: Gateway Radio Controller, Audio Interface Controller (Intercom with pre-recorded 'voice' alerts) and Fan Controller.

System Intelligence

MCS-32 and MCS-16 control units are supplied with default settings that will suit a variety of applications, however, they can be simply customised to match the end users specific application by the complimentary software. The MCS-8 is usually supplied as an unprogrammed unit. Free PC software and supporting literature to set up unique configurations are available on request.

Once a satisfactory configuration has been created it can be transferred to any number of units via a laptop.

Switching Units

We offer a range of multi-functional hand held, surface and panel mounted switch units that interface with our range of MCS control units for the operation of vehicle hazard warning systems. Each button can be custom configured at source or by the customer in terms of operation, legend designation and back light colour.



#5 - ELECTRONIC SYSTEMS

FleetMotus Telematic Solution

The **FleetMotus System** is a Vehicle Utilisation and Driver Behaviour hardware/software tool to monitor and manage fleets or individual vehicles to streamline their deployment reducing accident damage and abuse by encouraging appropriate driving methods. The regular and automated monitoring of vehicle fleets has been proven to save money from the initial installation with around 25% reduction in incidents and approximately 10-20% in fuel costs alone.

The system consists of a vehicle data collection device that connects with back office management software via the mobile phone network and internet/intranet.

PRODUCT



- **Live Vehicle Tracking**
 - Updates nominally set at 20 seconds or when a parameter (*acceleration, braking or cornering*) is exceeded
 - Update period can be set to less than 20 seconds, but will increase data usage and associated fee
 - Update period can be reduced from 20 seconds, but not normally necessary as a pre-set parameter could be exceeded first
 - Update period can be increased beyond 20 seconds to a specific application and can be set to automatically increase when vehicle is stationary or device is put to 'sleep'
- **History Journey Viewing**
 - View part, single or multiple journeys
 - Home in on key events, exceptions and infringements
- **Live or Historic Virtual Dashboard**
 - Shows vehicle status/usage
 - Various formats available for best application
- **Geo Fencing**
 - Areas of interest linked to alerts and reports
- **Points of Interest Import**
 - User or postcode defined
- **Vehicle Type and Location Tagging**
 - Facilitates simplified views and like for like reports
- **Urgent Alerts and Events**
 - Notification via SMS text message
- **Typical Email Alerts with Scheduled Reports**
 - Vehicle Utilisation Report
 - Idle Vehicle Report (*ignition 'ON' with vehicle not moving*)
 - Lazy Vehicle Report (*ignition 'OFF' in Geo Fenced locations*)
 - Over Speed Reports
 - Harsh Braking and Acceleration Reports
 - Vehicle Battery Monitoring
 - Stolen or Towed Vehicle Alert
- **Internal Battery Back-up**
 - Units operate for 30 minutes plus when vehicle supply disconnected.



FLEETMOTUS OPTIONS

Nexu

Nexu and Nexu Lite are plug and play devices. Simply plug the device into the OBDII port for real time tracking with GPS/GLONASS and GSM connectivity to collect vehicle co-ordinates and other useful vehicle movement data.

Minimus

Minimus is a discreet hardwired data processing device with built-in antennas. Incorporating GSM (*Mobile Phone Network*) / GNSS (*Satellite Navigation*) and Blue tooth connectivity.

Medius

The Medius is a hardwired but compact data processing unit with built-in antennas. Incorporating 'new' generation GSM (*Mobile Phone Network*) / GNSS (*Satellite Navigation*) Modules to give the fastest 'cold' and 'hot' start-up times. Also, when linked with a suitable CAN Bus adaptor will monitor associated vehicle functions.

Magna

Magna and Magna Elite are hard wired data processing units. They also have GPS/GLONASS and GSM connectivity to collect vehicle location co-ordinates and parameters to facilitate real time tracking with the Elite having the addition of a LV CAN adaptor and/or an RFID Driver ID card reader to provide additional information. Each system can facilitate either a locally hosted server or a cloud based web service via the license incorporated within the purchase of the vehicle device. Multiple users will require additional user licenses that must be purchased separately.

Minimus DLH-423



Easy plug and play tracking device

The FleetMotus Nexu Lite plugs into the OBDII port for an easy plug and play real time tracking terminal.

Built-in GPS/GPRS connectivity collects device co-ordinates and other vehicle movement data and transfer it to the system host platform or client server.

Typical applications: This device is perfectly suited for applications where the acquirement of location and remote mobile assets is required for: fleet management, vehicle rental companies, taxi firms, personal cars on public highways as well as plant and agricultural off-road vehicles.

Nexu II DLH-310



Advanced plug and play tracking device

The FleetMotus Nexu II plugs into the OBDII port for an advanced plug and play real time tracking terminal.

Built-in GPS/GPRS connectivity collects device co-ordinates and other vehicle movement data including that from the vehicle on-board computer and transfer it to the system host platform or client server.

Typical applications: This device is perfectly suited for applications where the acquirement of location and remote mobile assets is required for: fleet management, vehicle rental companies, taxi firms, coaches and buses, personal cars on public highways as well as plant and agricultural off-road vehicles.

Minimus DLH-423



Discreet vehicle movement and data recorder

The FleetMotus Minimus is a discreet hardwired device data processing unit with built-in antennas.

It is a light real-time tracking terminal with GPS/GPRS modules as well as Bluetooth connectivity which collect device co-ordinates and other data including and transfer to a server. Bluetooth peripherals expand the devices wireless functionality.

Typical applications: Where there is a location requirement for remote objects such as for security, fleet management, car rental companies, taxi firms, public transport, logistic companies, personal vehicles and many more.

Medius DLH-422



Compact vehicle movement and data recorder

The FleetMotus Medius is a hardwired and compact data processing unit with built-in antennas.

Incorporating latest generation GPS/GPRS giving the fastest 'cold' and 'hot' start-up times. When linked with a suitable CAN Bus adaptor will monitor associated vehicle functions. The Medius collects device co-ordinates and vehicle movement data to transfer them to the systems Host Platform or Client Server.

Typical applications: These would be like those for Nexu Lite and Nexu II devices, but with the ability to monitor and record extra vehicle signals or those from auxiliary equipment.

Magna II DLH-421



Standard vehicle movement and data recorder

The FleetMotus Magna II is a hardwired data processing terminal for real time vehicle movement and data recording.

Built-in GPS/GPRS connectivity is able to collect device location co-ordinates and parameters to facilitate real time tracking and monitoring of movement and operational data and transfer it to the system host platform or client server.

In the event of loss of signal coverage the FleetMotus Magna can store more than 16,000 records, once the connection is re-established stored data is sent to the server so that it is not lost.

Magna Elite DLH-316

Advanced vehicle movement and data recorder

The FleetMotus Magna Elite has all the features and functions of the standard Magna unit with the addition of either an RFID Driver ID Card Reader module or i-button and/or Light Vehicle CAN Bus adaptor.

It can provide additional data such as 'who' is driving the vehicle, 'how' it is being driven and 'what' the vehicle is doing as well as monitoring auxiliary equipment or those from auxiliary equipment.



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