STANDBY®

When attention matters.

Catalogue

Content

Content

ABOUT US

Standby – Special Signal Technology "Made in Germany"

We develop, manufacture and sell alarm and warning equipment for emergency, work and special vehicles. We do our best every day to ensure that emergency services reach their destination safely. Standby supports you with unique and innovative special signal technology, which ensures one thing above all: to be seen and heard! The fully digital and modularly expandable software can be individually configured to your requirements and can also be reached via a unique remote maintenance service. This means updates, troubleshooting and configurations can be carried out without the presence of a technician, which means significant time and money savings. Reduce the risk of accidents and the downtime of vehicles and crew with the appropriate special signaling technology from Standby and also benefit from our own production with a central warehouse and fast spare parts supply.

Standby currently employs around 170 people in five European countries. Our employees are experts in research and development, manufacturing, shipping and logistics, as well as technical support and sales. This allows us to guarantee the best support and outstanding service for our customers throughout Europe.

We are constantly working to improve ourselves and our products. The focus of these developments is above all safety through better visibility of emergency vehicles on emergency trips. In addition, we rely on the simple installation of our technology and on a simple operating philosophy of our special signal systems designed for the driver.

What sets us apart is the ability to localize errors and carry out updates and configurations via remote maintenance. This quick error detection and correction in connection with our central warehouse leads to a significant reduction in downtime for emergency vehicles..

**Standby is your reliable partner for all BOS, including fire brigades,
Rescue services, police and all body manufacturers.**

Please visit us at our production site in Dinslaken.

Standby GmbH	phone: +49 2064 - 60197 0
Hünxer Straße 330	fax: +49 2064 – 60197 99
D 46537 Dinslaken	email: info-de@standbygroup.com
Germany	internet: standbygroup.com/de

OUR SALES TEAM

Region NORTH

André Kohne
Key Account Manager Rescue-Services/Fire Brigades
phone: +49 152 52 74 84 66
email: andre.kohne@standbygroup.com

Region NRW

Alexander Amadei
Key-Account Manager Police
phone: +49 172 67 51 045
email: alexander.amadei@standbygroup.com

Region WEST, NRW, NL

Sven Weyen
phone: +49 173 28 18 582
email: sven.weyen@standbygroup.com

Region EAST / PL

Thomas David
Sales Manager
phone.: +49 152 52 74 84 58
email: thomas.david@standbygroup.com

Region EAST

Norman Paduck
phone: +49 172 24 25 031
email: norman.paduck@standbygroup.com

Region SOUTHWEST

Marcel Isaakson
phone: +49 1743 121 737
email: marcel.isaakson@standbygroup.com

Region SOUTH / CH

Andreas Bachsleitner
phone: +49 162 217 13 96
email: andreas.bachsleitner@standbygroup.com

Region SOUTH / AT / SI / HU

Daniel Schmitzer
phone: +49 172 24 10 979
email: daniel.schmitzer@standbygroup.com

Map labels

NORTH
Schleswig-Holstein, Hamburg, Bremen, Niedersachsen

Nether-lands

NRW

EAST
Mecklenburg-Vorpommern, Brandenburg, Berlin, Sachsen-Anhalt, Sachsen, Thüringen

WEST
Hessen, Saarland, Rheinland-Pfalz

SOUTH
Baden-Württemberg Bayern

SWITZERLAND

AUSTRIA

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standbygroup.com/de

WE ADVICE YOU ON SITE

We would be happy to visit you with our show car / show trailer. With competent advice directly at your location, we support you in the planning and implementation of your special solutions and construction options. Would you like to train your employees in terms of product technology or approval technology? We are happy to support you here as well.

SHOWCAR

SCAN ME

SHOWTRAILER

SHOWPAVILION

INTERNAL SALES IN DINSLAKEN

General
E-Mail: **info-de@standbygroup.com**
Telefon: **+49 2064 60197-0**

Orders
E-Mail: **order-de@standbygroup.com**
Telefon: **+49 2064 60197-20**

Service / Support
E-Mail: **service-de@standbygroup.com**
Telefon: **+49 2064 60197-80**

Markus Schulte
Head of Internal Sales

Klaus Pfiffer
Technical support,
After Sales Service, Marketing

Jennifer Denda
Internal Sales

Isabela de Mello
Internal Sales

Marc Petri
Internal Sales

Frederico Andrade
Internal Sales

Production „Made in Germany"

Standby GmbH relies on flexible, customer-oriented production at the Dinslaken location.

"Made in Germany" is our program.

Individual customer production as well as project-related series production takes place in modern, flexible production lines, so that quality can be ensured at any time and short-term adjustments can take place.

Standby GmbH has been ISO 14001:2015 certified since 2020; We always focus on environmental prediction and sustainability!

Standby GmbH is ISO 9001:2015 certified and uses procedures for checking product conformity in accordance with the requirements of StVZO §22, EC Directive 27/245 / EEC, and UN regulation No. 10 and No. 65.

Training, instruction, as well as further education and training of our employees continue to contribute to a constant quality.

Our in-house development team is constantly working on new, innovative solutions in order to keep our products up to date with the latest technology and to make the application as intuitive and easy as possible for you.

Lightbar W3, Kreuzungsblitz® consisting of 4x L88 + 2x L54
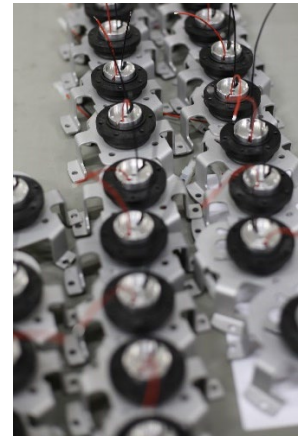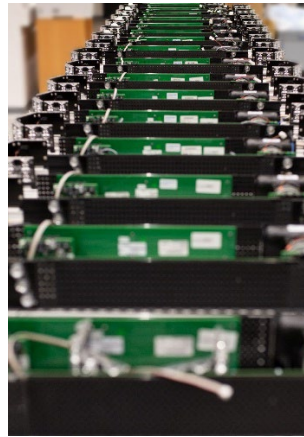
YOU CAN FIND US HERE

www.standbygroup.com/de

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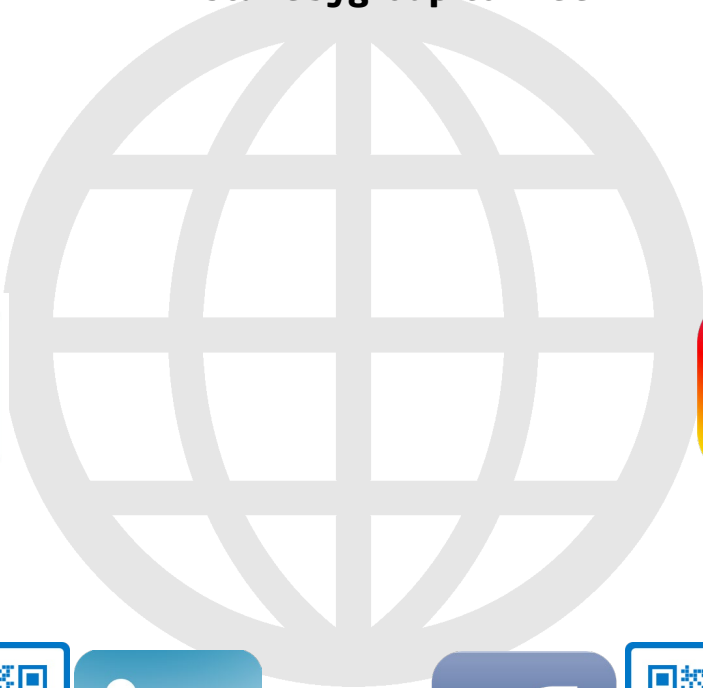
www.youtube.com/channel/
UC6UtyMtOyuEfybLpdUs5DhQ

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standby_gmbh/

www.linkedin.com/
company/standby-gmbh/

www.facebook.com/
standbygmbh/

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STANDBY®

When attention matters.

Lightbars

Lightbar W3

The lightbar W3 is manufactured and programmed by hand in Dinslaken according to your wishes.

Product features:

- **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**
- **Column circuit**
- **and much more**

Product videos

SCAN ME   SCAN ME   SCAN ME

TECHNICAL DATA	
operating voltage	12/24 VDC (9 ... 14.4 / 21.6 ... 30 VDC)
current consumption	max. 15 A (peak 30 A for < 50 ms)
LED-colours (corners)	blue, amber, blue/amber, red
dome-colours (corners)	clear, blue
LED-colour (middle mart)	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: indicators red front: „Flasher Red" for Police red rear: brake- and position-light
alley-lights	laterally left and right, 15° turned to front
cable	4.5 m
available lengths	590, 930, 1100, 1270, 1440, 1600, 1770, 1940 mm
height	corners: 65 mm middle-part: 47 mm
depth	280 mm
approvals	light acc. ECE R65 Class 2 EMC acc. ECE R10

Lightbar W3

590 … 2110 mm

65 mm

280 mm
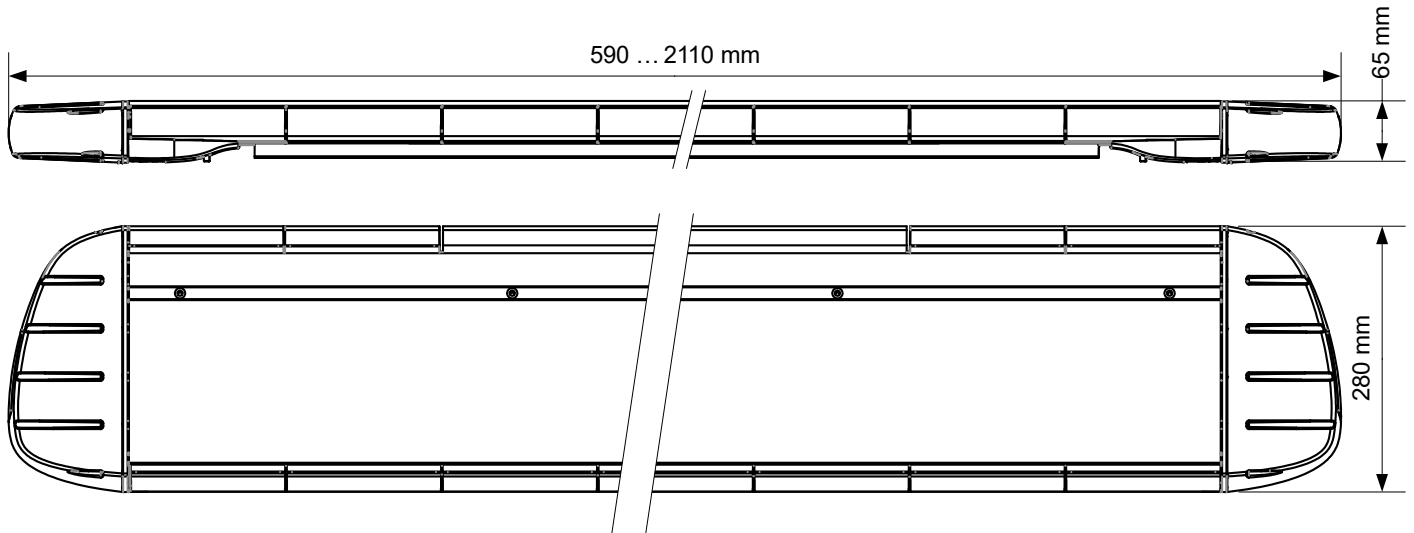
individually configurable LED modules

Spoiler

loudspeaker front and rear
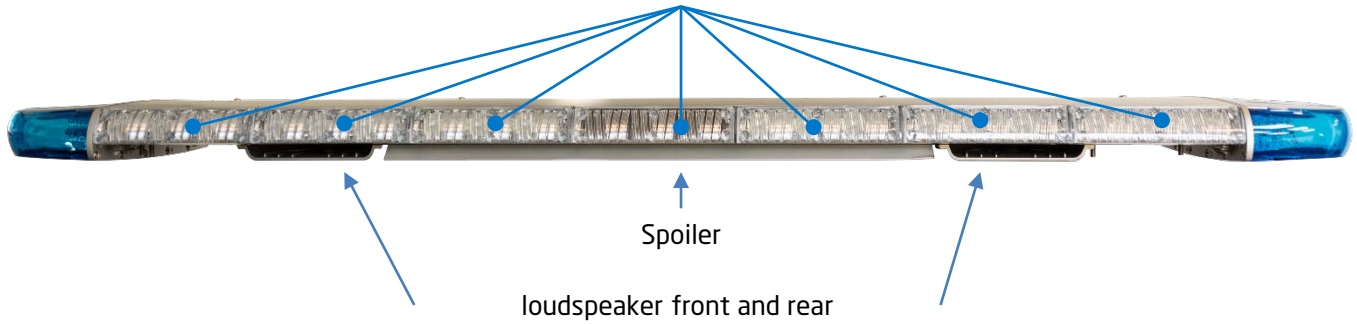
The following functions can be selected, among others:

- **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**

FEUERWEHR

2/73

167,8 mm

Martinanlage STANDBY

Lightbar W3

STANDBY

Universalhalter W3

200 … 215 mm

95 … 110 mm
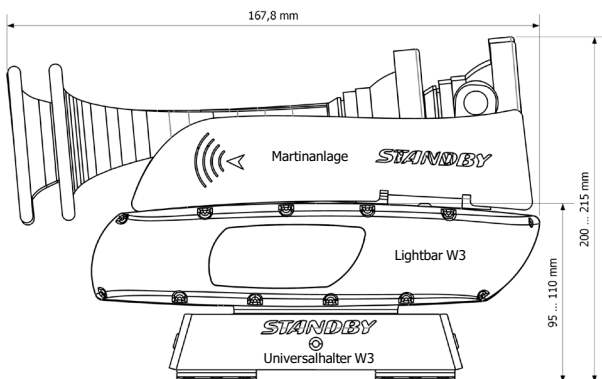
Deviations may occur due to different roof curvatures and mounting points!

SCAN ME

Module replacement on site

Mounting brackets for Martin horns (optional)

Lightbar W3 Split / Split mini

The light bar W3 Split Bar is manufactured and programmed by hand in Dinslaken 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.

W3 Split

W3 Split mini

Product features:

- **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**
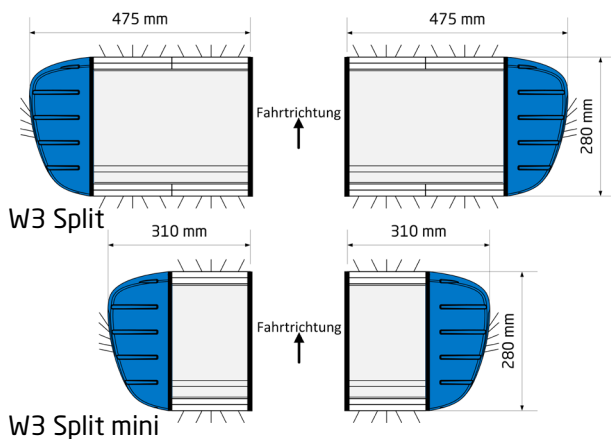
Product video   SCAN ME

W3 Split

475 mm   475 mm   280 mm

Fahrtrichtung

W3 Split mini

310 mm   310 mm   280 mm

Fahrtrichtung

| TECHNICAL DATA	
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 front: „Flasher Red" for Police 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
width x depth	2x 475 x 280 mm
approvals	light acc. ECE R65 class 2 EMC acc. ECE R10

Lightbar LB200

Our slimmest lightbar with a height of just 25 mm is the perfect solution in terms of installation height and the weight of the lightbar. Thanks to its simple plug-in connection, the LB200 is child's play to install and handle, whether in blue or yellow.

With different lengths and 10 different flash modes, including day/night switching and cruise light function, this lightbar fits your requirements and your vehicle perfectly.

Product features:
- **Slim design with 25 mm height (without mounting bracket)**
- **Available as a completely blue or yellow bar**
- **Easy installation thanks to simple plug-in connection**
- **Various lengths: 300 to 2139 mm in 153 mm increments**
- **10 different flash modes; single, double, triple and quadruple flash, ICAO**
- **Single and triple flash, both synchronous and alternating, approved to ECE R65 Class 2, ECE R10 and CISPR 25 Class 3**
- **Day/night switching**
- **Cruise light function**
- **Mini version also with magnetic attachment and cigarette lighter plug**
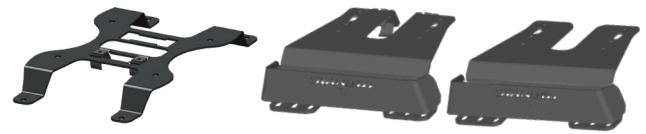
LB200 mini brackets   LB200 universal brackets
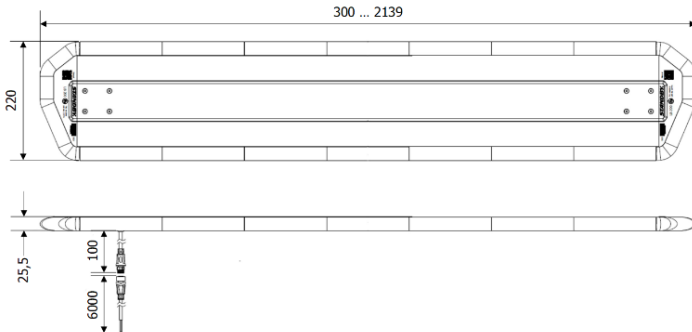
ARTICLE NUMBER	DESCRIPTION
506584031001	LB200 - 300mm, blue, 1 Module, magneitc mounting
506584031002	LB200 - 300mm, blue, 1 Module
506584111001	LB200 - 1067mm, blue, 6 Modules
506584121001	LB200 - 1220mm, blue, 7 Modules
506584141001	LB200 - 1373mm, blue, 8 Modules
506584151001	LB200 - 1527mm, blue, 9 Modules
506584032001	LB200 - 300mm, amber, 1 Module, magneitc mounting
506584032002	LB200 - 300mm, amber, 1 Module
506584052001	LB200 - 454mm, amber, 2 Modules
506584062001	LB200 - 607mm, amber, 3 Modules
506584092001	LB200 - 914mm, amber, 5 Modules
506584112001	LB200 - 1067mm, amber, 6 Modules
506584122001	LB200 - 1220mm, amber, 7 Modules
506584142001	LB200 - 1373mm, amber, 8 Modules
506584152001	LB200 - 1527mm, amber, 9 Modules
506584182001	LB200 - 1833mm, amber, 11 Modules
50658400050	LB200 1 module mounting bracket set; pack
50658400050	LB200 2 to 11 modules; universal mounting bracket set

SCAN ME
Product video

| TECHNICAL DATA	
Operating Voltage	12/24 VDC (10 ... 30 VDC)
Current consumption	3 – 10 A, depending on length
LED colour	Blue, amber
Lens colour	Clear
Flash patterns	Single flash, Double flash, Triple flash, Quadruple flash
Mounting	Fix mounting, Magnetic
Protection class	IP67
Weight	approx. 7 kg/m
Cable	3 m (magnet version) 6 m (fixed mount version)
Available lengths	blau: 300, 1067, 1220, 1373, 1527 mm
	gelb: 300, 454, 607, 914, 1067, 1220, 1373, 1527, 1833 mm
Height	25,5 mm (without mounting bracket)
Width	220 mm
Approvals	ECE R10, CISPR 25 class 3 ECE R65 class 2

Lightbar Z2

The Z2 is manufactured and programmed by hand in Dinslaken according to your wishes.

Product features:

- **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, HI-LO, AIRHORN)**
- **Free choice of colours for the housing**
- **and much more**

Lightbar Z2

950 mm up to 2100 mm

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

- **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**

Contact us, we will be happy to advise you.

TECHNICAL DATA		
operating voltage	12/24 VDC (9 … 16 / 21.6 … 32 VDC)	
available dome-colours		
- upper dome	blue, amber, red	
- lower dome	blue, amber, clear	
weight	10 kg (950 mm only light)	
	17 kg (1370 mm full functions)	
luminosity (Z2 blue)	main beacon:	up to 300 cd
	spot LED (f+r):	1.300 cd
	additional blue light(f+r):	930 cd
ambient temperature		
- operation	-40 ℃ … +70 ℃	
- storage / transport	-40 ℃ … +80 ℃	
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)	

Product videos

SCAN ME

SCAN ME

SCAN ME

Lightbar 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.

It is manufactured and programmed according to your wishes.

Product features:

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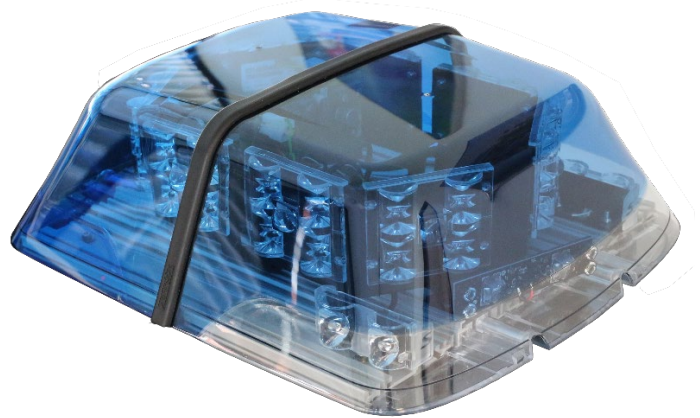
When designing the software, we offer you the following options:

- **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**
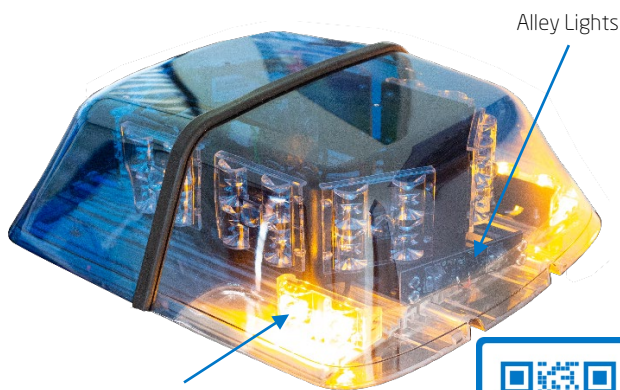
Alley Lights

Direction indicators and hazard lights

Product video **SCAN ME**

TECHNICAL DATA	Z2 mini	Z2 micro
operating voltage	12 / 24 VDC (10.8 … 14.4 / 21.6 … 28.8 VDC)	
current consumption - warning lights - alley lights - indicators	8 A	4 A
amount of LEDs (warning light)	32	16
dimensions	413 x 346 x 127 mm	
ambient temperature - operation - storage / transport	-25℃ … +70℃ -40℃ … +80℃	
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)	

Accessories for Z2

ARTICLE NUMBER	DESCRIPTION
50228400416	
50228400415	
50228400414	
50228400413	
50228400412	
50228400411	
50228400421	
50228400424	Rubber Gasket for Z2 120
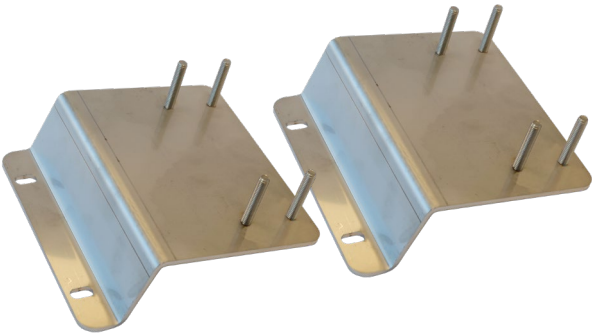
Rubber Gasket incl. universal mounting set for Z2

Universal Brackets Z2 Set (PN: 50228400020)

Brackets Z2 for IVECO Daily Set (PN: 50228400010)

Brackets Z2 140, for MB Vito/Sprinter (PN: 50238430103)

Brackets Z2 for VW T6.1 (PN: 50218400010)

Lightbar W3, Kreuzungsblitz® consisting of 4x L88 + 2x L54, Frontblitz 2x L54

Lightbar VEGA blau

Whether as a single lightbar on your MTW / KdoW or as a double lightbar system on your ELW, VEGA secures and supports you in every operation.

Manufactured from a combination of high-quality materials, the VEGA lightbar impresses with its good price-performance ratio.

There are 4 different lengths to choose from for permanent installation on your vehicle, we also offer the VEGA mini as a magnet variant (e.g. for your leasing vehicle).

Product features:

- **Extremely flat lightbar, only 67mm high**
- **Aerodynamic**
- **Robust aluminum housing and polycarbonate domes**
- **High-performance LEDs, approved according to ECE R65**
- **Very low power consumption**
- **Including mounting bracket with inclination compensation**
- **Including 4-meter connection cable**
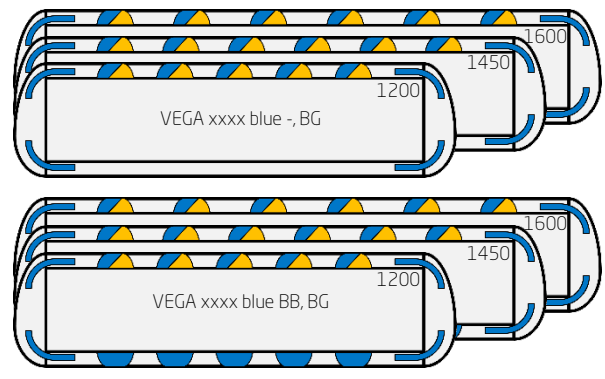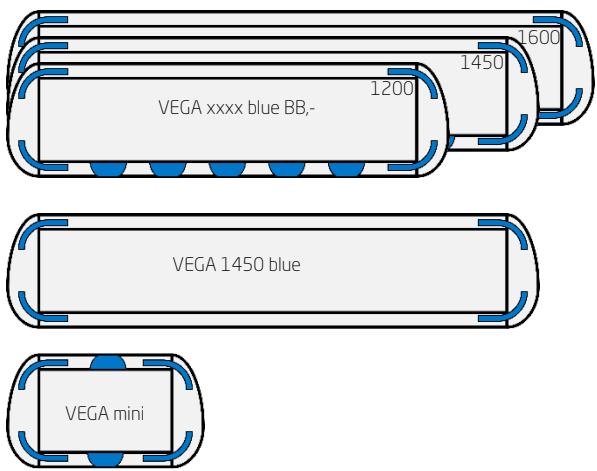
Product video

SCAN ME

ARTICLE NUMBER	DESCRIPTION
F29262	
F29909	GyroLED M130, blue, ISO, programmable
F28545	
F28551	GyroLED,amber,BAT,magnetic,flashing,230V,class1
F28549	GyroLED,blue,BAT,mag.,flashing,230V,class1
F28546	
F28552	
F28550	GyroLED,amber,BAT,magnetic,rotating,230V,class1
50608414001	W3B 1440, 7AL, 7AL
50608414002	W3B 1600, 8AL, 8AL
50608414003	W3G 1270, 6AL, 6AL
50608414004	W3G 1440, 7AL, 7AL
50608414005	W3G 1600, 8AL, 8AL

TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
current consumption	max. 4.3 A (at 13,5 V)
available variants	only corners corners + LEDs to front corners + LEDs to rear corners + LEDs to front and rear alley-lights on request
available lenghts	560, 1200, 1450, 1600 mm
dimensions d x h (length acc. to variant)	267 x 67 mm
approvals	light acc. ECE R65 class 2 EMC acc. ECE R10

Lightbar VEGA FX mini with German DIN-Signal

There is no quicker, easier and less complicated way to set up your emergency vehicle.

The VEGA FX combines the light approval according to ECE R65 TB2 and the sound approval according to §22a StVZO in a flat light bar.

It doesn't matter whether you plan to use the magnetically held VEGA FX mini variant or the fixed structure, the system is set up and ready for operation in no time at all.
The double speaker system emits the special signal with up to 117 dB(A).

Optional headlight modules on the side enable the area next to the vehicle to be illuminated, be it to look for house numbers or to secure the scene.

Product features:

- **Easy construction**
- **No additional installation of control units and speakers required**
- **Flat light bar, height: 67 mm**
- **Aerodynamic**
- **Light approved according to ECE R65 class 2**
- **German signal approved according to §22a StVZO**
- **12/24V capable**
- **Solid aluminum base**
- **Polycarbonate cladding**

ARTICLE NUMBER	DESCRIPTION
F35554-00	VEGA FX mini, blue, magnetic, LS (DIN)
F36050-00	VEGA FX mini, blue, screw on, LS (DIN)

TECHNICAL DATA	
Operating voltage	12/24 VDC (10 … 30 VDC)
Current consumption	max. 4,3 A (at 13,5 V)
Dimensions w x d x h	560 x 267 x 67 mm
Ambient temperature	-45°C … +80°C
Interface	➢ parallel ➢ CAN-Bus (only with our BT-H 100, including the option of voice announcements)
Approvals	➢ light acc. ECE R65 class 2 ➢ EMC acc. ECE R10 ➢ siren acc. §22a StVZO: W25076

Lightbar VEGA gelb

Protect yourself and your work area with quality products.

Manufactured from a combination of high-quality materials, the VEGA lightbar impresses with its good price-performance ratio.

There are 3 different lengths to choose from for permanent installation on your vehicle, we also offer the VEGA mini as a magnet variant (e.g. for your leasing vehicle).

Product features:

- **Extremely flat lightbar, only 67mm high**
- **Aerodynamic**
- **Robust aluminium housing and polycarbonate domes**
- **High-performance LEDs, approved acc. to ECE R65**
- **Very low power consumption**
- **Including mounting bracket with inclination compensation**
- **Including 4 meter connection cable**

Product videos SCAN ME SCAN ME
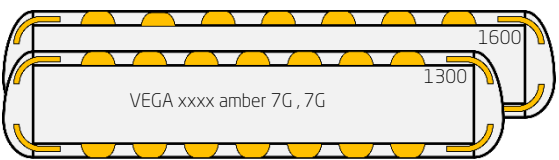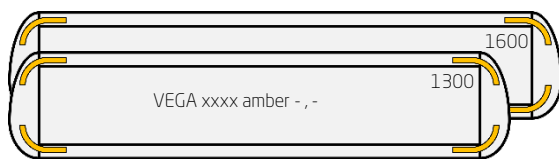
ARTICLE NUMBER	DESCRIPTION
F29264	
F29910	GyroLED M130, amber, ISO, programmable
F28553	
F28554	
F28557-03	
F28558	

TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
current consumption	max. 4.3 A (at 13.5 V)
available variants	only corners corners + LEDs to front and rear alley-lights on request
available lengths	530, 1300, 1600 mm
dimensions d x h (length acc. to variant)	267 x 67 mm
approvals	light acc. ECE R65 class 2 EMC acc. ECE R10

VEGA xxxx amber - , -
1600
1300

VEGA xxxx amber 7G , 7G
1600
1300

VEGA mini

Accessories for W3 and VEGA

Universal Brackets W3 / VEGA (Set)
(50508400010)

Universal Brackets long W3 / VEGA (Set)
(50508400011)

W3 Universal Brackets
(S89500302)

railing widths	
W3 1100	814 ... 904 mm
W3 1270	982 ... 1072 mm
W3 1440	1150 ... 1240 mm
W3 1600	1318 ... 1408 mm

W3 Reling Brackets universal
(S89500301)

railing widths	
W3 1100	814 ... 904 mm
W3 1270	982 ... 1072 mm
W3 1440	1150 ... 1240 mm
W3 1600	1318 ... 1408 mm

W3 Brackets Rails XL
(S89500305)

railing widths	
W3 1100	884 ... 982 mm
W3 1270	1052 ... 1150 mm
W3 1440	1220 ... 1318 mm
W3 1600	1388 ... 1486 mm

W3 Brackets Rails XXL
(S89500312)

Touran: ab Bj. 2015
Tiguan: ab Bj. 2020
Kodiaq: Bj. 2021-2023

only for W3 1200

VW Touran / Tiguan (50508400022)
Skoda Kodiaq (50508400018)

from built 2020

only for W3 1200

Skoda Octavia from built 2020
(50508400024)
VW Passat (50508400028)

from built 2020

only for W3 1440

W3 Brackets for VW T6.1
(50508400027)

from built 2018

W3 Brackets for VW Touareg
(50508400032)

from built 2020

W3 Brackets for VW Caddy
(50508400033)

built 2021-2023

W3 Brackets for Skoda Kodiaq
(50508400018)

W3 Brackets for Volvo V90
(S89500321)

VEGA-Brackets PY-1413
(50608414006)

STANDBY®

When attention matters.

LED-FLASHER

LED-Flasher L54

The redesigned L54 front flash has been specially developed for installation locations with limited installation space and sets new standards in terms of efficiency and functionality. With its extremely flat design, it enables discreet installation without compromising on light output. Here is an overview of the outstanding features:

Despite its compact size, the L54 ensures an impressive light output. It is approved according to ECE R65 class 2, which guarantees the highest safety standards.

Depending on the space available in the vehicle, the L54 is available as a single module with a solo driver or as a double module with a twin driver. These customization options enable optimum integration into different vehicle types.

The L54 is suitable for operation at 12 or 24 V, which enables a wide range of applications. Different flash modes can be set as required to ensure optimum signaling.

Product features:
- High light output in the smallest installation space
- Suitable for 12 / 24 V
- Various flash modes can be set
- Daytime approval according to ECE R65 class 2 (smoked version class 1)
- Up to 10 modules can be synchronized

tinted variation

vertical variation

SCAN ME
Product video

85mm   36mm

15mm

Ventilation element must be mounted pointing downwards

ARTICLE NUMBER	DESCRIPTION
S45457021	
S45457121	
50148445457125	
S45487021	L52, Bracket 30°
S45487121	L52, Pole-Bracket
S45467021	
S45467121	
S45477021	
50148445457023	
50148445457026	
50148445457123	L54, LED-Flasher, blue, Solo - vertical
50148445457126	
50148445487023	L54, LED-Flasher, red, Twin
50148445487123	L54, LED-flasher bu/rd, Twin

TECHNICAL DATA	
operating voltage	12/24 VDC (9 ... 32 VDC)
current consumption	at 13.8V: 0.45 A at 27.6V: 0.22 A
flashing frequency	2.1 Hz (acc. ECE R65 class 2)
luminous intensity	blue: 680 cd (twin-version) amber: 618 cd (twin-version) white:1300 cd (twin-version)
flash-modes	single-, double- and triple-flash
amount of LEDs	6 per module
LED-colour	blue, amber, red, white
cascadable modules	up to 10
dimensions - modules - driver	 85 x 36 x 15 mm 80 x 14.3 x 18.6 mm
ambient temperature	-40℃ ... +85℃
approvals	E5-00049 (L54 blue) E5-00050 (L54 amber) E5-05250 (EMC)

Accessories for LED-Flasher

universal V1
(50148400091)

universal V2
(50148400092)

adjustable
(F30255)

from built 04/2017

MAN TGE
(50148400111)

Vito W447 with „perforated" grill

MB Vito/Sprinter up to built 2017
(50508445400007)

MB Sprinter from built 2018
(50140000107)

Vito W447 with "slotted" grill

MB Vito 2020
(50148400112)
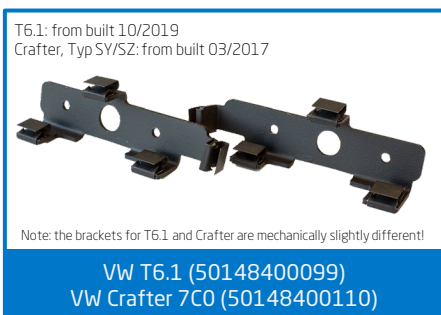
T6.1: from built 10/2019
Crafter, Typ SY/SZ: from built 03/2017

Note: the brackets for T6.1 and Crafter are mechanically slightly different!

VW T6.1 (50148400099)
VW Crafter 7C0 (50148400110)

VW Tiguan X: from built 11/2020

VW Tiguan Comfortline 2021
(50148400100)
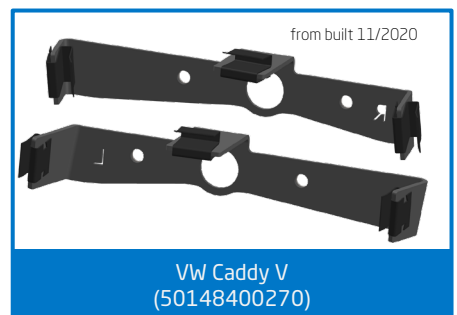
from built 11/2020

VW Caddy V
(50148400270)
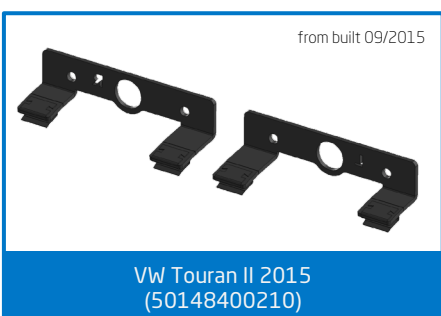
from built 09/2015

VW Touran II 2015
(50148400210)
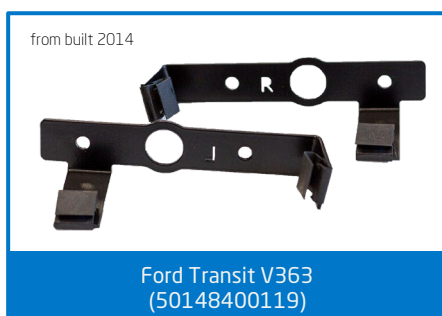
from built 2014

Ford Transit V363
(50148400119)
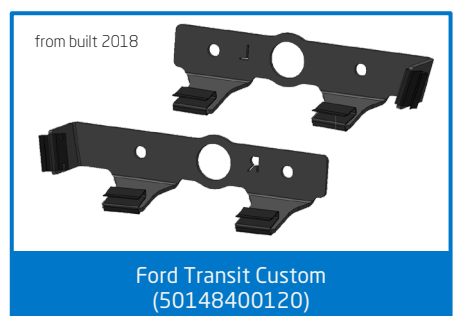
from built 2018

Ford Transit Custom
(50148400120)
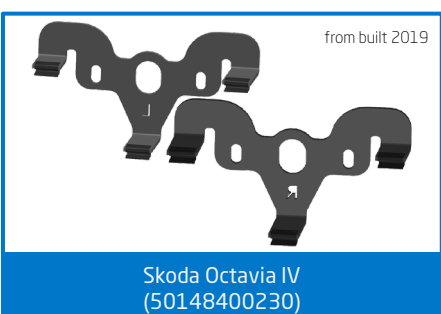
from built 2019

Skoda Octavia IV
(50148400230)
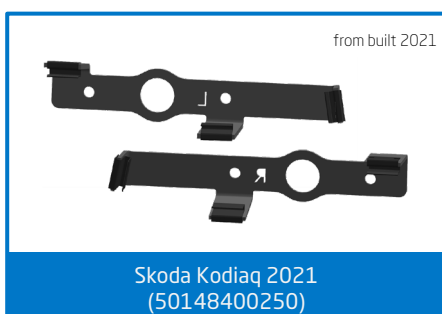
from built 2021

Skoda Kodiaq 2021
(50148400250)

from built 2021

IVECO Daily 2021
(50148400260)

LED-Flasher L56 2C

The L56 2C is the result of consistent further development of the L52 2C. The areas of application and the dimensions of the popular L76 were adopted. In this way, the advantages of both speed cameras are combined in a new module.

The L56 2C has the latest LED technology for powerful light. It has an integrated driver unit that reduces the space required to a minimum. A new, coated double lens system, which enables high performance, rounds off the well-thought-out design.

The L56 2C is available in many different color combinations, so that it can be used in a variety of ways. There are versions with blue and amber warning lights combined with white work lights, direction indicators or two-color work lights for even more performance.

The L56 2C are specially designed for vehicles that require a larger light distribution and a larger lamp size. It is easy to install and can be mounted almost anywhere on the vehicle.

Product features:

- **Very powerful two-colour warning light**
- **Multiple light patterns and combinations**
- **Robust and slim design**
- **Coated double lenses**
- **Same size as L76**
- **Easy to assemble**
- **Developed in Sweden**
- **Approved according to ECE R65 class 2 and ECE R10 (EMC)**
- **Protection Class: IP67**
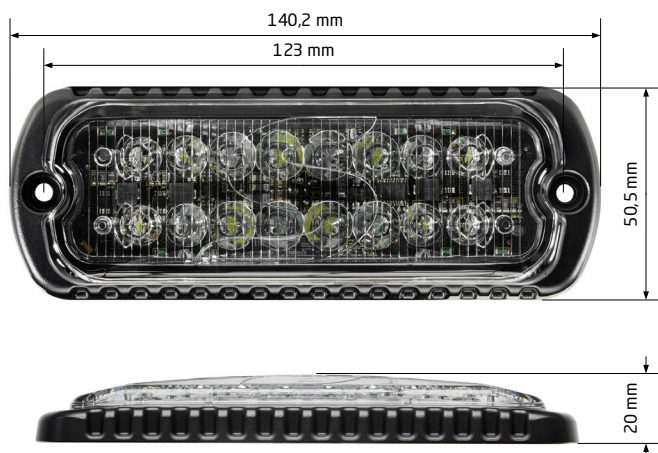
LED-Flasher L56 2C

Product videos

SCAN ME

SCAN ME

ARTICLE NUMBER	DESCRIPTION
50148445657055	L54, LED-Flasher, white, Solo
50148445657057	
50148445657058	
50148445677077	L56 2C blue/blue
50148445687078	L56 2C blue/white
50148445687088	L56 2C blue/white 24V
50148445657055_24	
50148445657057_24	
50148445657058_24	L54, LED-Flasher amber, Twin - vertical
50148445677077_24	L56 2C blue/blue 24V
50148445687078_24	
50148445687088_24	L56 2C blue/amber
ACCESSORIES	
S45600007	L52, Bracket for Volvo XC90, vertikaly
S45600008	

TECHNICAL DATA	
operating voltage	12 / 24 VDC (10 ... 30 VDC)
current consumption	at 13.8V: 1.3 A at 27.6V: 0.65 A
LED-colour	blue, amber, white, blue/amber, amber/white, blue/white, blue/blue, amber/amber
lens-colour	clear
amount of LEDs	8 + 8 per module
luminous intensity	blue: 703 cd amber: 1667 cd white: 3336 cd
cable	2 m
mounting	outdoor assembly
weight	approx. 285 g (incl. cable)
dimensions	140.2 x 50.5 x 20 mm
synchronisation	12V: up to 28 modules 24V: up to 14 modules
protection class	IP 67
approvals	light: acc. ECE R65 class 2 EMC: acc. ECE R10

L56 2C Universal Bracket (1 piece)
(PN: S45600007)

L56 2C Bracket 30° (1 piece)
(PN: S45600008)

LED-Flasher L88

You won't be overlooked with the L88 directional LED flash!

The small, robust flasher warns vehicles driving ahead or behind from a distance and helps to increase safety on the road.

Whether as a front flash, rear flash or rear warning system; the L88 is always the right choice. Installation in the vehicle is very easy thanks to the compact dimensions. Only one hole is required for assembly, no further openings and no screw material are required. A GORE-TEX membrane on the Blitzer top wicks away moisture and provides air exchange to prevent condensation as much as possible.

Thanks to its Class 2 approval according to ECE R65, Category X, the L88 is clearly visible even in bright sunlight. At night, the brightness can be reduced to Class 1 so as not to dazzle other road users. Thanks to the separate driver module, which controls the LED modules, installation is universally possible.

Product features:

- **12/24 V capable**
- **Available in blue and amber**
- **Diameter: only 29 mm**
- **Installation depth: only 24 mm**
- **High quality materials, UV stable**
- **GORE-TEX membrane for the disposal of moisture**
- **Available as a SOLO or TWIN variant**
- **Very short assembly times, without screws**
- **Also approved in amber as direction indicators and hazard lights**
- **Day approval according to ECE R65 class 2**
  (tinted version class 1)

Solo version

Twin version

not tinted version   tinted version
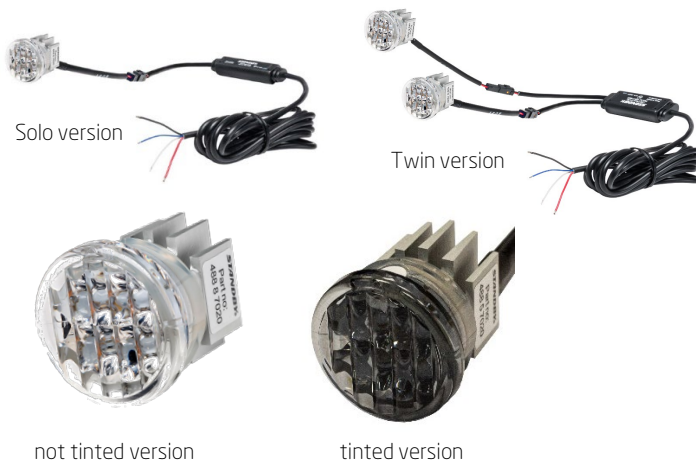
ARTICLE NUMBER	DESCRIPTION
S48857021	
S48857121	
S48887021	
S48887121	
505048800002	
505048800003	
S48887122	
50148448857022	L56 2C white/white 24V
50148448857122	L56 2C amber/amber

TECHNICAL DATA	
Operating voltage	12/24 VDC (9 … 32 VDC)
Current consumption	at 13.8V: 0.45 A at 27.6V: 0.22 A
Flashing frequency	2.1 Hz (acc. ECE R65 class 2)
Luminous intensity	blue: 680 cd (twin-version) amber: 618 cd (twin-version) white:1300 cd (twin-version)
Flash-modes	single-, double- and triple-flash
Amount of LEDs	6 per module
LED-colour	blue, amber, red, white
Cascadable modules	up to 10
Dimensions - modules - Driver	 85 x 36 x 15 mm 80 x 14.3 x 18.6 mm
Ambient temperature	-40°C … +85°C
Approvals	E5-00049 (L54 blue) E5-00050 (L54 amber) E5-05250 (EMC)

Accessories for LED-Flasher

As an alternative to flush mounting with the enclosed rubber ring, one of these brackets can also be used to mount the L88.

Product features:

- **Paintable housing for mounting on the vehicle, including neoprene gasket for sealing the mounting surface**
- **90° mounting bracket for mounting e.g. on the radiator grille or on the bumper**
- **Extension (650 mm) if the driver cannot be installed near the LED module**

housing for built on
(ohne L88 Modul)

extension cable

universal bracket 90°

bracket for IVECO Daily

19,29   39,89

Ø4,40

73,50

29,90

43,80

54,77
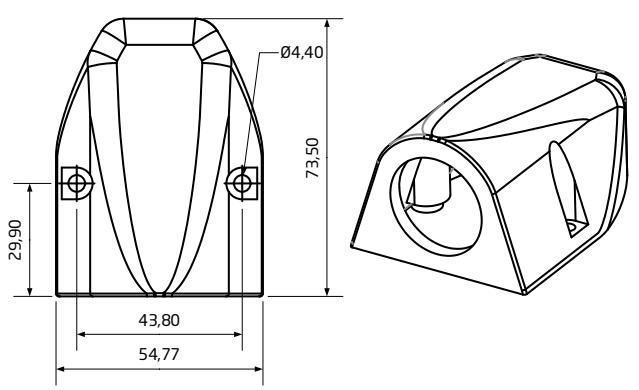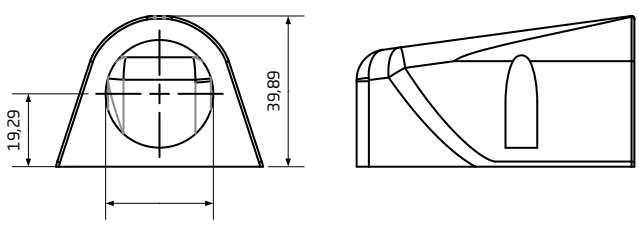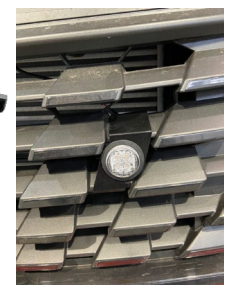
houding for built on mounting

ARTICLE NUMBER	DESCRIPTION
S48800010	L52 2C, amber/red, horizontal, 2m, Cl. 1
S48800005	
50143049500055	
50148400175	

LED-Flasher L52 / L52 2C

The L52 offers you an extremely flat design in addition with an enormous luminosity. With a wide range of technical options and the associated approvals, this LED unit offers you significantly more options than the simple basic function of an LED flasher.

In addition to the classic front and rear flashing variant, the L52 can also be used as work lights, indicators, brake and position lights and as a side marker light. The two colours of the L52 2C model result in a wealth of additional application options.

Product features:

- **Approved as:**
  - ➢ **Directional beacon (front or rear flash / blue light extension)**
  - ➢ **Rear warning system**
  - ➢ **indicator**
  - ➢ **Brake light**
  - ➢ **Position light**
- **Total installation height of 9mm, including the driver**
- **Available in one or two colours; combine, for example, an RWS system with a blue light extension or a headlight in one module.**
- **Can be used flashing and / or statically**
- **Synchronizable**
- **Programmable (choose between synchronous, alternating, lightning pattern, etc.)**
- **Available in 5 colours (blue, yellow, red, white, green)**
- **2 versions for shoring (horizontal or vertical)**
- **Suitable for 12/24 V.**

L52

L52 2C

The images are for illustrative purposes only

L52 with tinted lens (class 1)

ARTICLE NUMBER	DESCRIPTION
50148445257021	
50148445257022	
50148445257002	L52 blue, windscreenflasher with suction cup
50148445257012	K-FS 1 B, high-power-front-flasher blue
50148445287021	L52, LED module, red, Cl. 1
50148445287022	L52, LED module, white, horizontal
50148445267021	
50148445297021	L52 2C, amber/green, horizontal, 2m, Cl. 1
50148445277021	

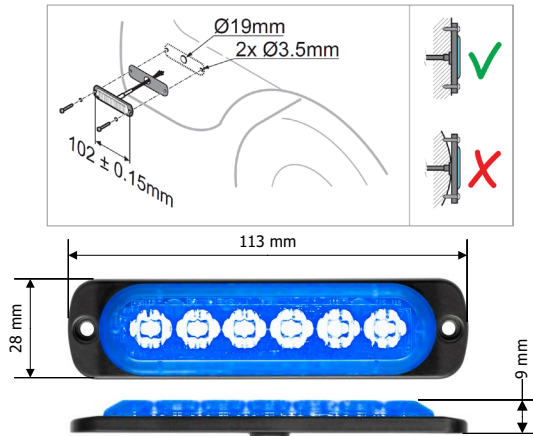| ARTICLE NUMBER	DESCRIPTION
50148445257031	L52, LED module, blue, hor., tinted Cl. 1
50148445257032	
50148445257033	
S45257034	
50148445287031	
50148445287032	L52, LED module, amber, horizontal, Cl. 2
50148445287034	L52, LED module, amber, horizontal, Cl. 2
50148445267031	

Product video

SCAN ME

LED-Flasher L52 / L52 2C

TECHNICAL DATA	L52	L52 2C
operating voltage	12 / 24 VDC (10 ... 30 VDC)	12 / 24 VDC (10 ... 30 VDC)
current consumption	at 13,5V: 0,4 A (Peak 1,0 A) at 24V: 0,2 A (Peak 0,5 A)	at 12V: 0.8 A at 24V: 0.4 A
LED-colour	blue / amber / red / white	blue-amber / blue-red / blue-white / blue-green / amber-white / amber-red/ amber-green / red / white
lens-colour	clear	clear
amount of LEDs	6 per module	2x 6 per module
luminous intensity	blue: 238 cd (cl.2) blue tint.: 120 cd (cl.1) amber: 549 cd (cl.2) white: 324 cd (cl.2)	blue: 185 cd (cl.1) amber: 287 cd (cl.1) red: 181 cd (cl.1)
Luminous flux	white: 1.365 lm	white: 1.365 lm
cable	2 m	2 m
mounting	outdoor assembly	outdoor assembly
dimensions	28 x 113 x 9 mm	28 x 113 x 9 mm
synchronisation	12V: up to 12 modules 24V: up to 8 modules	12V: up to 12 modules 24V: up to 8 modules
ambient temperature	-40°C ... + 85°C	-40°C ... + 85°C
protection class	IP-6KX acc. DIN 40050-9	IP-6KX acc. DIN 40050-9
scope of delivery	1x LED-module L52 1x rubber gasket 1x mounting set	1x LED-module L52 2C 1x rubber gasket 1x mounting set
approvals	E5-00044 (blue, cl. 2) E5-00045 (amber, cl. 2) E5-00046 (red, cl. 1) E5-05235(EMC)	E5-00056 (blue-xx, cl. 1) E5-00057 (amber-xx, cl. 1) E5-00060 (xx-red, cl. 1) E5-05337 (EMC)

Sample images L52 2C blue / amber (blue light extension and rear warning system) in combination with an L52 static white for illuminating the interior.

Windshield flasher

The bracket is designed in such a way that the light emission in the vehicle interior is minimized. A special permit is required for operation.

Product features:
- **Specially designed target holder**
- **L52 LED speed camera already installed**
- **Two finishes available**
- **Simple assembly with double-sided adhesive tape**
- **Adjustable light emission angle**

ARTICLE NUMBER	DESCRIPTION
50148445257502	L52 2C, blue/red, horizontal, 2m, class 1
50148445257501_02	L52 2C, blue-flashing, amber-static-Indicater
S49500057	L54, LED-Flasher, amber, Solo
S49500056	L54, LED-Flasher, white, Solo
F34063	

TECHNICAL DATA	
mounting	glue mounting or velcro mounting
dimensions	small: 144 x 74 x 30 mm large: 155 x 89 x 35 mm

Accessories for L52 / L52 2C

universal Bracket V1 (1 piece)
(PN: S45200001)

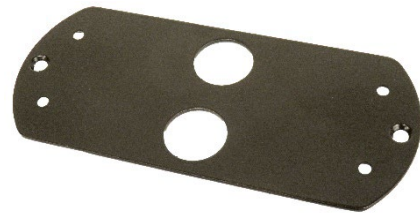Bracket for Volvo XC90 / BMW (1 piece)
(PN: S45200018)

Tube-Bracket
(PN: S45200016)

Bracket 30°
(PN: S45200002)

Bracket for MB Sprinter
(PN: S45207003)

Duo-Bracket for 2x L52
(PN: F28103)

Windschield Flasher Housing large (without L52)
(PN: S49500056)

Windschield Flasher Housing smal (without L52)
(PN: S49500057)

Rear-Warning-System RWL 52

The RWL 52 rear warning bar is intended for installation on the rear of the vehicle and offers numerous variation options.
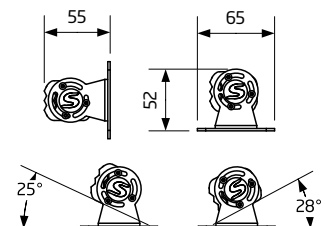
Developed as a warning system, the RWL 52 warns incoming traffic of danger spots at an early stage.

By using the L52 2C modules, the RWL 52 can also be used in combination as a blue light extension.

Direction indicators and / or brake lights are just as possible as the integration of white modules as work lights.

Product features:

- **Easy construction**
- **12/24 V capable**
- **Variable length and equipment 160... 2536 mm in 113 mm steps. Other lengths on request**
- **Proven LED modules L52**
- **Vehicle-specific inclination can be adjusted so that the radiation is parallel to the road**
- **Robust design in powder-coated aluminum profile**
- **Construction horizontally or vertically**

124 ... 2500 mm; in 113 mm steps (1 ... 22 LED-modules)

113 mm

145 ... 2518 mm; in 113 mm steps (1 ... 22 LED-modules)

91 ... 2464 mm; in 113 mm steps (1 ... 22 LED-modules)

55   65

52

25°   28°
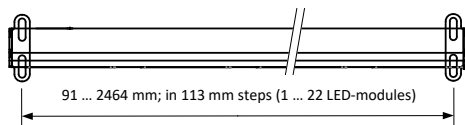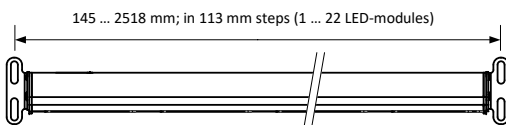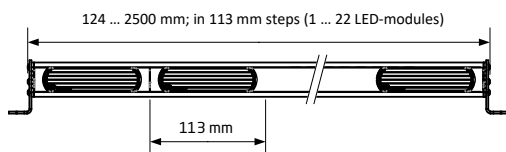
TECHNICAL DATA	with L52	with L52 2C
operating voltage	12 / 24 VDC (9 ... 32 VDC)	12 / 24 VDC (9 ... 32 VDC)
current consumption per module	at 12V: 1.0 A at 24V: 0.5 A	at 12V: 0.8 A at 24V: 0.4 A
mounting	built on mounting	built on mounting
possible module-colours	blue, amber, red, green, white	blue-amber / blue-red / blue-white / blue-green / amber-white / amber-red/ amber-green / red / white
dimensions - length - width x height	160 ... 2536 mm 65 x 55 mm	160 ... 2536 mm 65 x 55 mm
approvals	E5-00044 (blue, cl. 2) E5-00045 (amber, cl. 2) E5-00046 (red, cl. 1) E5-05235 (EMC)	E5-00056 (blue-xx, cl. 1) E5-00057 (amber-xx, cl. 1) E5-00060 (xx-red, cl. 1) E5-05337 (EMC)

Rear-Warning-System MTD

The rear warning bar MTD is intended for installation on the rear of the vehicle. It warns incoming traffic early on of danger spots or redirects traffic in the desired direction.

The housing consists of a high-quality extruded aluminum profile and is therefore very robust and durable.

Product features:

- **Can be quickly converted from a built-on version to a built-on version**
- **12/24 V capable**
- **3 lengths: 680, 800 and 1030 mm**
- **8 different light modes can be controlled, such as:**
  - ➢ **Warning system**
  - ➢ **Running light from right to left**
  - ➢ **Running light from left to right**
  - ➢ **Running light from the center outwards**
  - ➢ **Night reduction**
- **No additional control unit is required**

MTD 103
(not permitted in Germany)

MTD 80
(not permitted in Germany)

MTD 68

product video

SCAN ME

ARTICLE NUMBER	DESCRIPTION
F31106	
F31107	GyroLED M130, blue, magnetic, programmable
F31108	GyroLED M130, red, magnetic, programmable
	other on request

TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
power consumption	19 W ; MTD-68 22 W ; MTD-80 28 W ; MTD-103
amount of LED per module	4
amount of modules	6 at MTD-68 7 at MTD-80 9 at MTD-103
protection class	IP 67
weight	2.1 kg ; MTD-68 2.3 kg ; MTD-80 2.5 kg ; MTD-103
dimensions (l x w x d)	680 x 47 x 37 mm ; MTD-68 800 x 47 x 37 mm ; MTD-80 1020 x 47 x 37 mm ; MTD-103

approvals
 	
(MTD 80 and 103 not permitted in Germany)
	EMC: acc. ECE R10
	
	light: acc. NF EN 12352
	   - Mode KR1: L2H, C1+C2, F2, 01
	   - Mode KR2: L2L, C1+C2, F2, 03
	
	LED-module acc. ECE R65 Cat X

Integrated LED-Modules L51

Our L51 modules offer you the option of an individual solution for your vehicle warning system.

In close cooperation with our development team, we can implement a compact, cost-efficient and, last but not least, high-quality solution for you.

Blue light, high-performance front flash, turn signals, position and brake light, rear warning system and work lights in various inclinations are just a few of the numerous possibilities that you can implement with our modules.

We manufacture our L51 modules with different colors, lenses and inclinations. The light intensity of the modules can be adjusted individually.

We would be happy to support you in planning, implementing and obtaining approvals for your integrated warning system.

On request, we can also supply you with the right control; Integration into your existing system is also possible.

If you are interested in planning an integrated warning system, simply make an appointment with our sales force. He will advise you extensively together with our development department.

Product features:

- **State-of-the-art high-performance LEDs**
- **Optimized product for integrated lighting solutions**
- **available in different colors**
- **Bracket for easier assembly**
- **Low power consumption**
- **ECE R 65 class 1 and 2 (depending on configuration)**
- **EMC tested**
- **Long life span**
- **Flexible assembly options**

Your design is our solution

TECHNICAL DATA	
operating voltage	12/24 VDC (9 ... 32 VDC)
LED-colour	blue, amber, white, red, green
mounting	integrated
approvals	EMC acc. ECE R10 light acc. ECE R65 cat. T

LED-Flasher – Approval Overview

LED-Flasher	Front- / Rearflash	Windshield Flasher	Brake Light	Rear-Light (Position Light)
L52	blue: E5-00044, Kl. 2 amber: E5-00045, Kl. 2 red: E5-00046, Kl. 1	blue: E5-00063, Kl. 1	red: E5*07R27/27*02789*00	red: E5*07R27/27*02789*00
L52 2C	blue/x: E5-00056, Kl. 1 amber/x: E5-00057, Kl. 1 red/x: E5-00060, Kl. 1	-	red: E5*07R07/27*02790*00	red: E5*07R07/27*02790*00
L54	blue: E5-00049, Kl. 2 amber: E5-00050, Kl. 2 red: E5-00051, Kl. 1	-	-	-
L56 2C	blue/x: E5*65R03/10*0080*00 amber/x: E5*65R03/10*0081*00	-	-	-
L88	blue: E5-00041, Kl. 2 amber: E5-00042, Kl. 2	-	-	-

LED-Flasher	Indicator	Rear-Warning-System (RWS / RWL)	Side-Marker
L52	amber: E5*6R04/29*0632*00	amber: E5-00045, Kl. 2	amber: E5-00008
L52 2C	amber/x: E1*6R01/29*5207*00 (front) amber/x: E1*6R01/29*5208*00 (rear)	amber/x: E5-00057, Kl. 1	-
L54	-	amber: E5-00050, Kl. 2	-
L56 2C	-	amber/x: E5*65R03/10*0081*00	-
L88	amber: E5*6R16/28*04221*00	amber: E5-00042, Kl. 2	-

LED-Flasher	EMC
L52	all: E5-05235
L52 2C	all: E5-05337
L54	all: E5-05250
L56 2C	all: E5*10R05/01*0412*00
L88	all: E5-04222

STANDBY®

When attention matters.

STANDBY®

Typ MS-350 12/24V
SN 50108403001   10R 047152
ÄZ: A
Bauj.   F-Nr.

Public-Safety-Systems

Siren Amplifier and Control Unit MS-350

One device for all requirements.

The MS-350 is a combination of a public safety system and a control unit. You determine whether the system is controlled digitally and/or in parallel ("analogue"), which warning signals the device should emit and how the levels of the three AF lines are set (e.g. for microphone, tape or radio switching).

Load relays are a thing of the past. Our control unit provides you with 2x 6 A and 4x 2 A outputs. If these outputs are not sufficient for you, we can expand the outputs with an additional I/O box (SE05).

CAN-capable

121 dB (A) in low reflection space

Product features:

- **Can be configured individually according to customer specifications**
- **2 speaker outputs for a sound pressure of up to 121 dB (A) in a low-reflection room**
- **Up to 14 control inputs**
- **Up to 6 switching outputs (2x 6A, 4x 3A)**
- **Evaluation of pulse width and pulse frequency modulation signals (e.g. speed signal)**

- **3 configurable audio inputs for microphone, radio, tape etc.**
- **Remote maintenance option**

2 CAN interfaces:
- **1x CANopen, FireCAN**
- **1x standby own CAN connection**
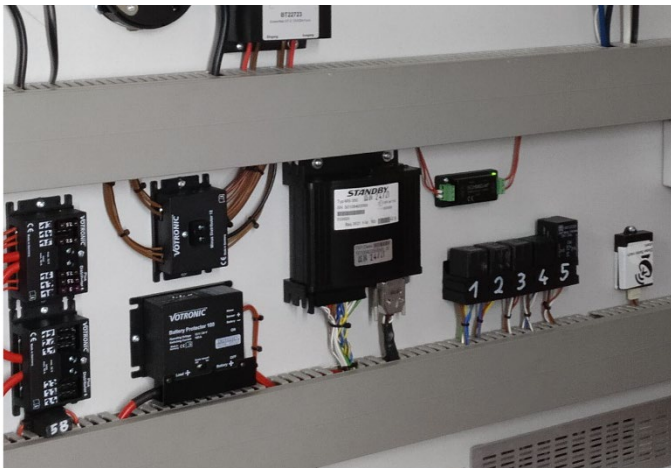
Mounting sample

Mounting sample

Siren Amplifier and Control Unit MS-350

Basically, the control unit is configured according to your wishes. We implement your logical processes and functions and configure the inputs and/or outputs according to your ideas. You do not need any feedback from the warning light itself to monitor simple warning lights. The MS-350 can monitor and evaluate the load output. Even clocked speed signals can be evaluated and processed by the MS-350.

In addition to our Standby CAN bus, the MS-350 can of course also operate other BUS systems (CiA447, FireCAN, etc.). In addition, there is also the possibility of direct implementation with different bus systems (CAN gateway).

The MS-350 emits the warning signal at up to 123 dB(A), making it one of the loudest systems on the market; a good prerequisite for the safety of the emergency personnel and other road users!

In addition, with this device we also offer you the possibility of remote maintenance by our development or our service in order to be able to quickly and easily install software updates or adjustments or to find and eliminate the cause in the event of an error.

Usable with:
- **Parallel ("analog") control**
- **Bus control units**
  (e.g. BT-H 100, BT-C 121 / 200, BT-210/220, BT-2004 / 2008 / 2017 etc.)
- **External control electronics (ZE) as a special signal system, expansion of the switching inputs / outputs, voice amplifiers, etc.**

Warning signals:
- **For the countries D, NL, S, F, A, CH, F, I, US**
- **Electronic compressor signal**
- **City / country switching**
- **YELP Signal for the stopping process**

MS-350 special functions

In addition to the free assignment of the load outputs and the control inputs, there are special functions that can be taken over by the MS-350.

Below are two examples of special functions that are possible:

undervoltage detection
(only in connection with a BT-H 100)

- Free specification of the notification or switch-off thresholds

- Acoustic notification in case of undervoltage

- Visual notification via the BT-H 100 display

- Deactivation of under-priority functions in the event of undervoltage

Radio main switch, activation / deactivation of the digital radio

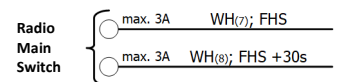|	Radio Main Switch ON/ OFF

- Version with one output: A time relay has yet to be installed

Radio Main Switch — max. 3A — GNRD(2); FHS
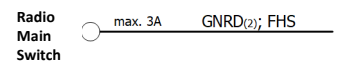
- Version with two outputs:

  – Output 1: activation/deactivation

  Radio Main Switch — max. 3A — WH(7); FHS
  max. 3A — WH(8); FHS +30s

  – Output 2: Shutdown after a specified time (digital radio logout)

  – The time for switching off output 2 can be specified by the customer

Siren Amplifier and Control Unit MS-350
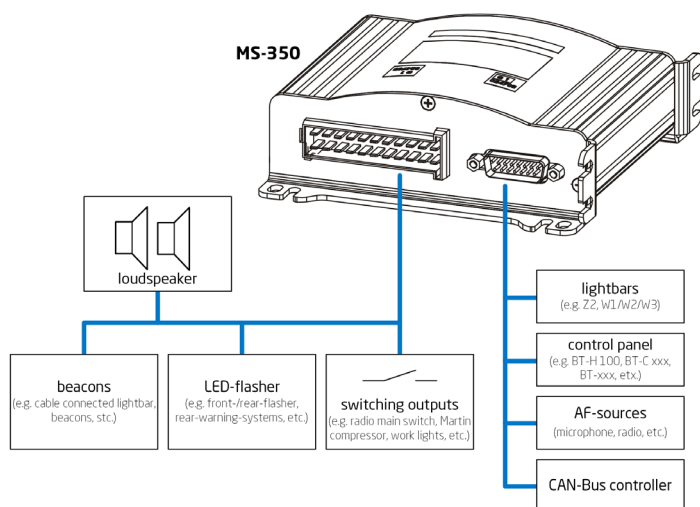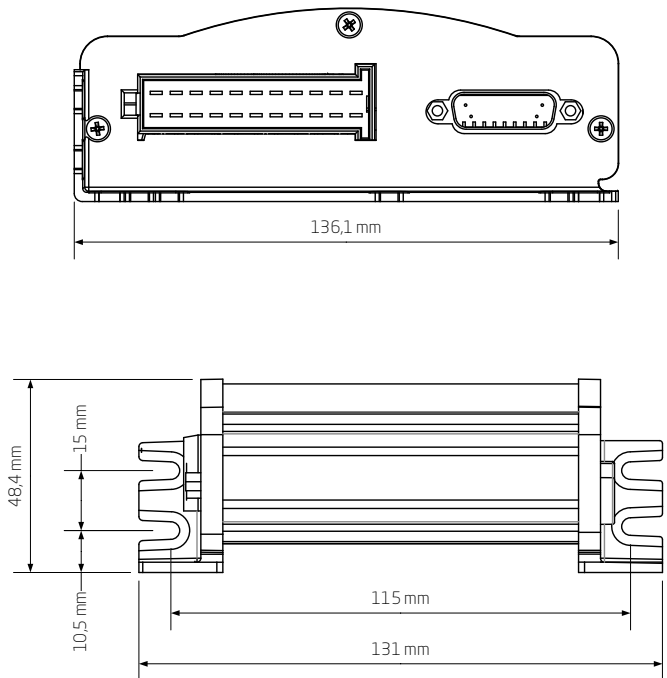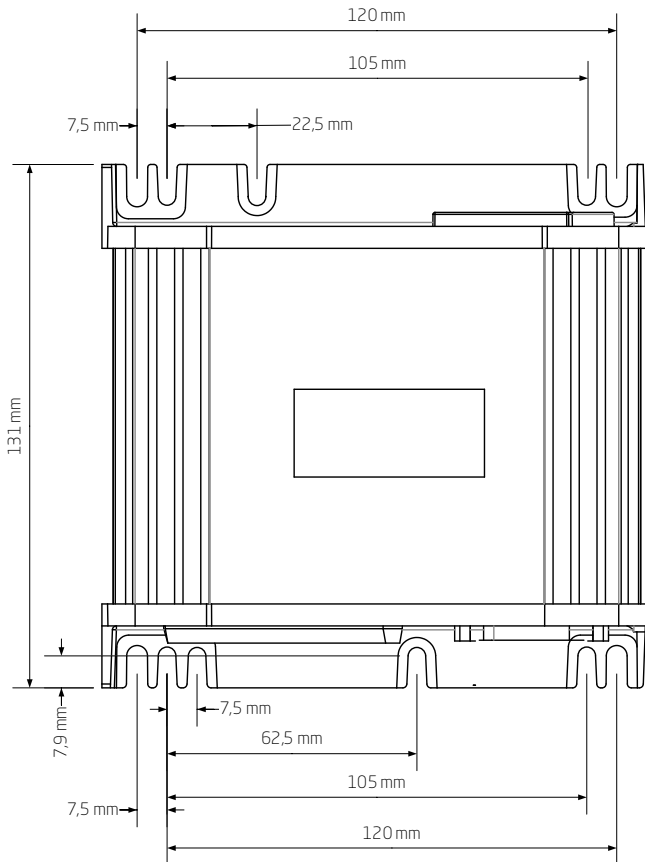
TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 … 14.4 / 21.6 … 28.8 VDC)
current consumption	< 5 A in operation (without beacons) < 0.5 mA in standby mode
ambient temperature - operating - storage / transport	 -25 … +70 °C -40 … +85 °C
output power acoustic	12V: 2 x 50 W (120 W max.) 24V: 2 x 80 W (200 W max.)
dimensions	44.6 x 136.6 x 131.0 mm
weight	approx. 400 g
protection class	IP 54
inputs	13x < 20 mA (plus active) 1x < 20 mA (minus active)
outputs	2x < 6 A 4x < 3 A (these outputs can also be used as inputs)
approvals	W25050 (acoustic) E1-047152 (EMC) approved with: • 1 or 2x K-SR 350 (12/24V) • 1 or 2x LAD 334 / 335 (24V) • TOPas / Z2-lightbar

Speaker K-SR 350

The small speaker K-SR 350 for remote installation.

Product features:

- **2 versions for 12 V and 24 V.**

- **Can be used individually but also in pairs in conjunction with the MS 350**

- **Small dimensions**

- **Universally installable**

- **Up to 121 dB (A)**
  with the MS-350 and use of 2 speakers

TECHNICAL DATA	
impedance	12 V : 4 Ω 24 V : 16 Ω
resilience	60 W (peak 80 W) 120 W with 2 speakers
ambient temperature - operation - storage / transport	-25 ... +60 °C -40 ... +80 °C
dimensions	Ø109.25 x 68.0 mm
weight	approx. 850 g
protection class	IP 54
colour	black
usable with	MS-350
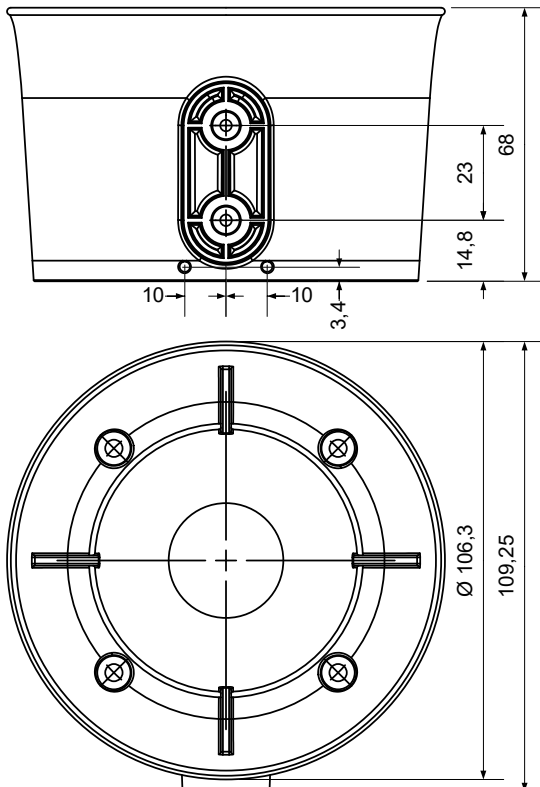
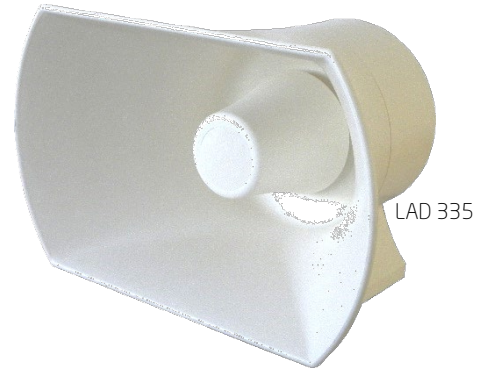| ARTICLE NUMBER	DESCRIPTION
50308451007	
50308451017	Loudspeaker K-SR 30, black

Speaker LAD 334 / 335

The speakers LAD 334/335 are suitable for mounting on large vehicles. The large funnels and extra strong pressure chamber systems ensure a high level of efficiency, both for clear and penetrating special signals and for voice announcements.
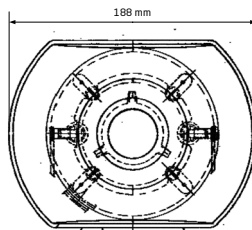
Product features:

- **For 24V vehicles**

- **Possible equipment on the vehicle:**
  - ➢ **2 x LAD 334**
  - ➢ **1 or 2 x LAD 335**

- **Paintable**

LAD 335

LAD 334

155 mm · 141 mm · 76.5 mm · 188 mm

LAD 334

206 mm · 170 mm · 110.5 mm · 267 mm

LAD 335

TECHNICAL DATA	LAD 334	LAD 335
impedance	11 Ω	11 Ω
resilience	100 W	100 W
ambient temperature - operation - storage / transport	-25 ... +60 °C -40 ... +80 °C	-25 ... +60 °C -40 ... +80 °C
dimensions (l x w x d)	194 x 155 x 163 mm	267 x 195.5 x 206 mm
material	Ultramid PA 6 B 3 K	Ultramid PA 6 B 3 K
colour	white, RAL 9001	white, RAL 9001
usable with	MS-350	MS-350
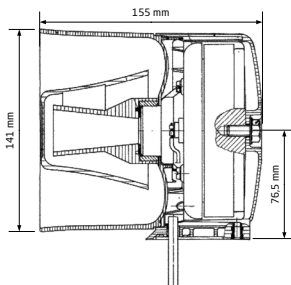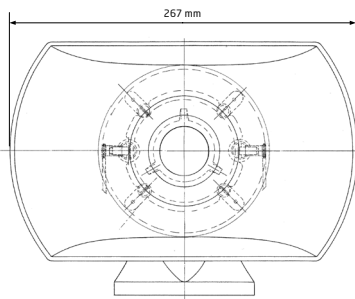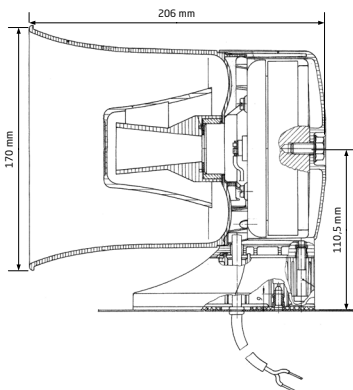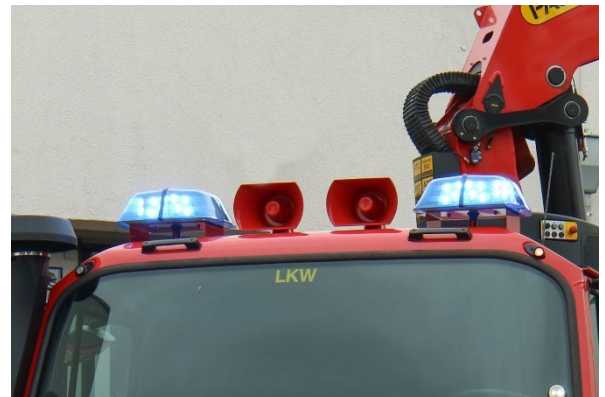
ARTICLE NUMBER	DESCRIPTION
20728401000	Housing rear-tray, white (RAL 9001)
20738401003	Mountingbase for LAD 334/335
20738400017	

STANDBY®

When attention matters.
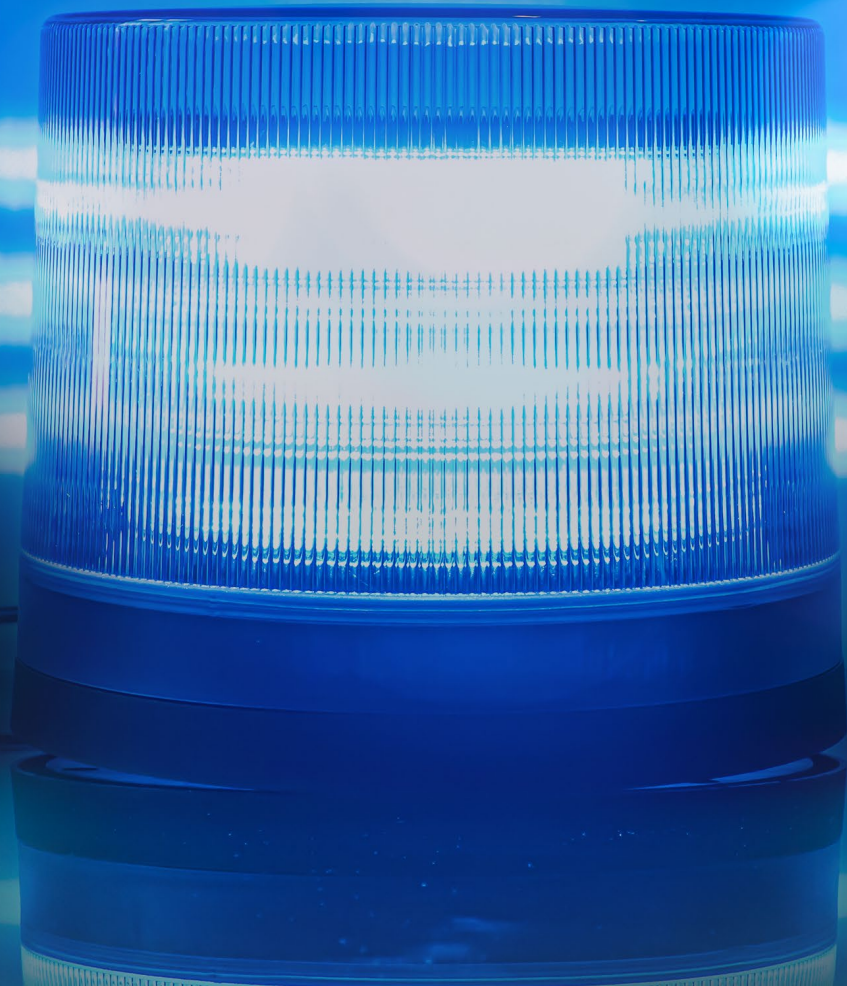
Beacons

Half Beacon L104

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

With the L104 + L52 version, an additional front / rear flash is integrated in the housing.

Product features:

- **4 available variants**
- **Also for retrofitting on existing vehicles**
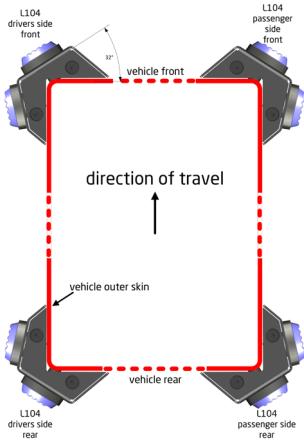- **2 or 4 modules per vehicle possible**
- **Can also be used in conjunction with a light bar or integrated beacons**
- **Can be combined with the Kreuzungsblitz®**
- **Approval according to ECE R65 "HTB 2"**

L104 Corner mounting
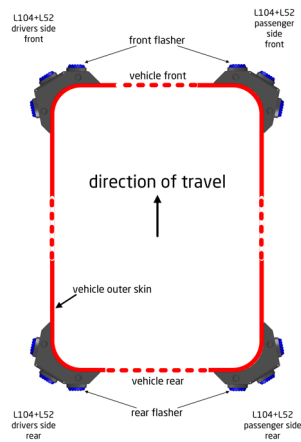
L104+L52 Corner mounting R40
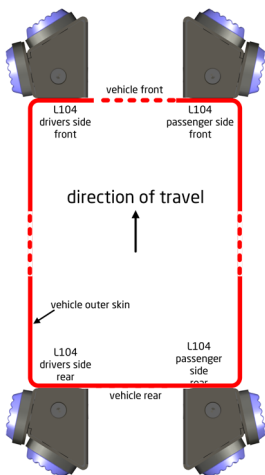
L104 surface mounting
Front-rear
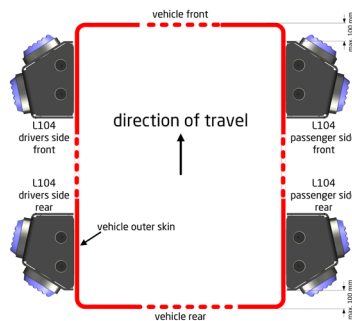
L104 surface mounting
laterally

ARTICLE NUMBER	DESCRIPTION
50138440001	
50138440002	
50138440003	
50138440007	

TECHNICAL DATA

operating voltage	12 / 24 VDC (10 ... 30VDC)
current consumption	max. 2 A per module at 13.8 VDC max. 1 A per module at 27.6 VDC
LED-colour	blue
lens-colour	clear
amount of LEDs	12
luminous intensity	226 cd
cable	2 x 2 m
mounting	• corner mounting • built on side • built on front or rear
dimensions • corner mounting • built on side • built on front or rear • L104+L52	 63.9 x 64.3 x 120.0 mm 57.4 x 43.8 x 118.5 mm 42.0 x 46.0 x 115.0 mm 97.2 x 95.7 x 120.4 mm
ambient temperature	-40°C ... +85°C
weight	approx. 460 g
approvals	light: E5*65R03/10*0077*00 EMC: E5*10R*05235

Half Beacon L104

Dimensions
L104 - Corner mounting

Ø5,5 mm
Ø6,5 mm
27 mm
20 mm
120 mm
90 mm
45 mm
25,7 mm
38,6 mm
41,1 mm
22,8 mm

direction of travel
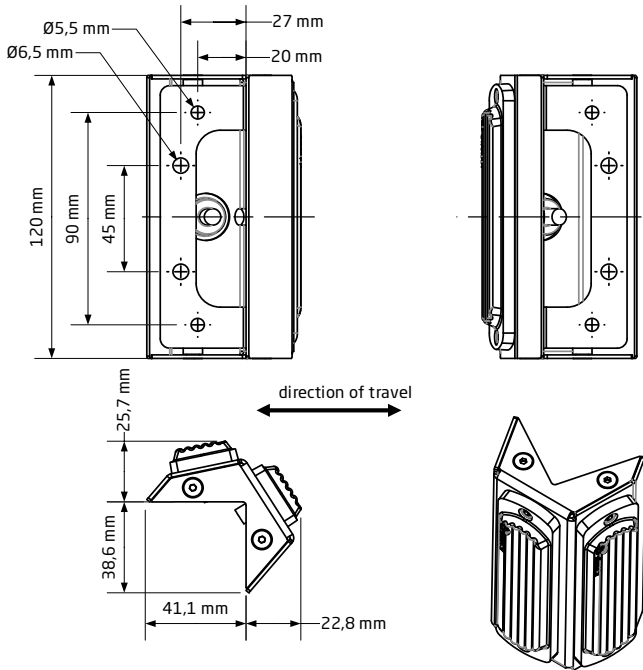
Dimensions
L104 + L52 - Corner mounting
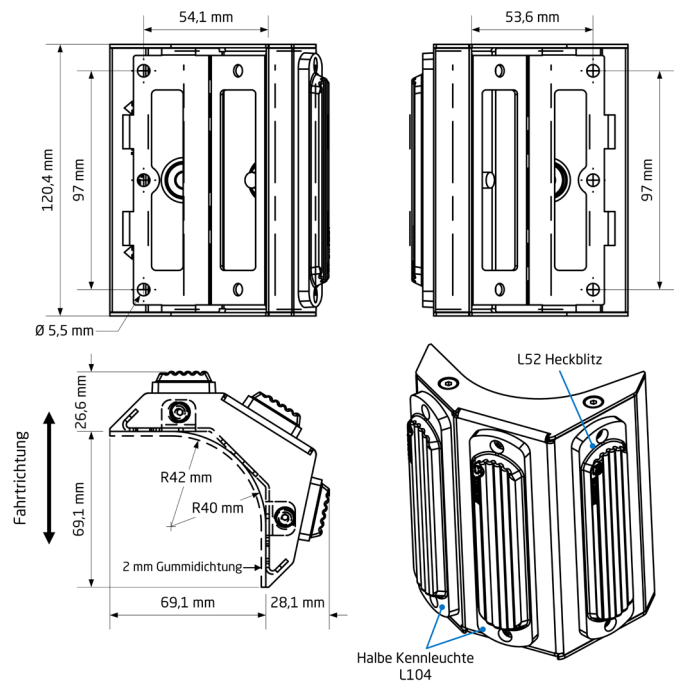
54,1 mm
53,6 mm
120,4 mm
97 mm
97 mm
Ø 5,5 mm
26,6 mm
Fahrtrichtung
69,1 mm
R42
R40 mm
2 mm Gummidichtung
69,1 mm
28,1 mm

L52 Heckblitz

Halbe Kennleuchte
L104

Dimensions
L104 – Surface mounting Front-Heck

12 mm
78 mm
90 mm
115 mm
Ø6,5 mm
Ø5,5 mm
46 mm
direction of travel
42 mm

Dimensions
L104 – Surface mounting laterally

20 mm
Ø5,5 mm
Ø6,5 mm
118,5 mm
90 mm
60 mm

direction of travel

43,8 mm
53 mm
4,4 mm
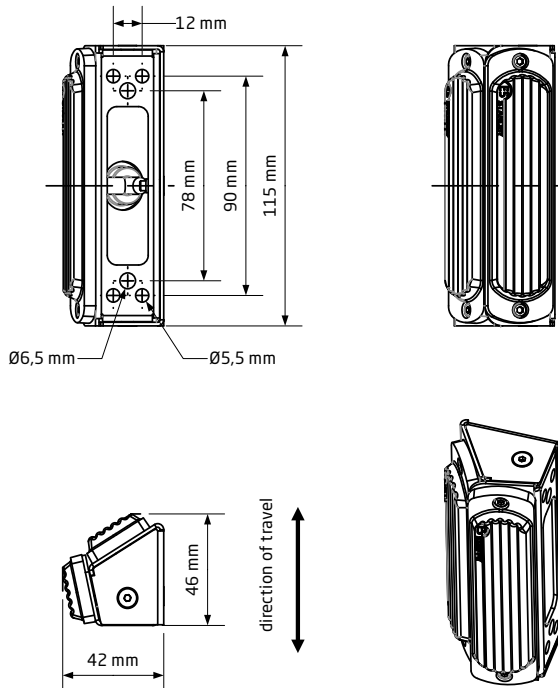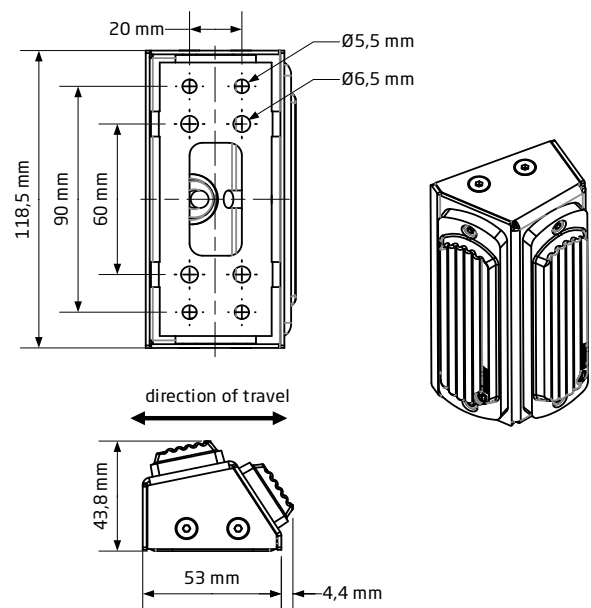
Half-Beacon – Kreuzungsblitz® KBx HTA2/HTB1

The half-beacon Kreuzungsblitz® is used to warn road users when the vehicle is driving out of an area that is difficult to see, e.g. intersection areas where the side view of other road users is not given or restricted, gate exits, covered access routes, etc.

The half beacon enables road users to perceive emergency vehicles as quickly as possible, despite temporarily restricted visibility of the main beacon. Early awareness reduces the risk of accidents and in situations involving road users with emergency services, especially in urban traffic areas.

Product features:

- **Half beacon integrated in the bumper / radiator grille, approved according to ECE R65 HTB-1 or HTA-2.**
- **The impact protection remains unaffected by the embedded LED modules.**
- **A total of 4 different basic variants ensure that they can be installed on every type of vehicle.**
- **The basic variants differ in the front-facing LED modules**
- **Possible equipment variants: L88, L54, L52, L52 vertical**
- **Corresponding vehicle-specific brackets are available separately**
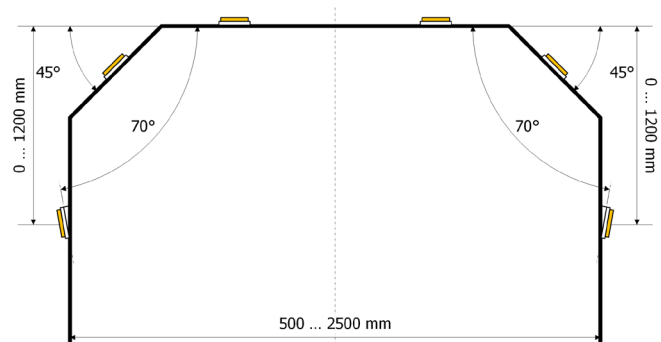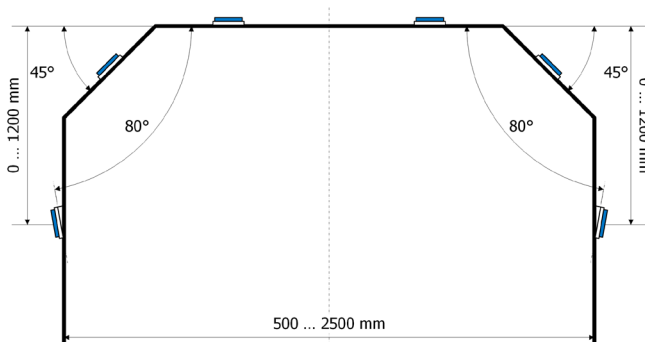
Half-Beacon – Kreuzungsblitz® KBx HTA2/HTB1

We offer tailor-made mounting systems and suitable drilling templates for the following vehicle types:

- **MB Sprinter from 2018**
  (possible colors of the recessed shells: white or black)

- **VW Crafter**
  (possible colors of the recessed shells: white or black)

- **MB Vito from 2014**
  (possible colors of the built-in shells: silver, white or black)

- **Ford S-MAX**
  (possible colors of the built-in shells: silver or black)

- **Further mounting systems for series on request**

Half-Beacon – Kreuzungsblitz® KBx HTA2/HTB1

If you cannot find a suitable installation location for your vehicle type and the 10 ° universal shells to achieve the required beam angle, please contact our sales force.

In general, we can manufacture the trays for you from 0 ° - 20 ° using the 3-D printing process.

In addition, we can also use many shells from our vehicle-specific offers for other vehicle types.
Our field service will be happy to help you with the planning.

ARTICLE NUMBER	DESCRIPTION
50148490010	
50148490011	
50148490020	Z2 R6 blinker module
50148490021	
50148490050	KB2-HTB1 (4x L88+2x L54), Ford S-Max, silver
50148490051	KB2-HTB1 (4x L88+2x L54), Ford S-Max, black
50148490052	KB2-HTB1 (4x L88 + 2x L54), Vito, black
50148490054	
50148490055	KB2-HTB1 (4xL88+2xL54), VW Crafter 7C, white
50148490056	KB2-HTB1 (4x L88 + 2x L54), Vito, white
50148490073	KB2-HTB1 (6xL88) Ford Transit V363, black
50148490080	KB2-HTB1 (6xL88) Iveco Daily, black
50148491010	KB2-HTB1 (4x L88 + 2x L54), universal, black
50148491020	KB2-HTB1 (6xL88) Iveco Daily, black
50148491030	KB2-HTB1 (4x L88 + 2x L54), VW Tiguan
50148491040	KB2-HTB1 (4x L88 + 2x L54), Vito, black
50148491041	KB2-HTB1 (4x L88 + 2x L54), VW Tiguan
50148491050	KB2-HTB1 (4x L88 + 2x L54), universal, white
50148491059	KB2-HTB1 (6x L88), truck, universal, black
50148491061	KB1-HTA2 (6x L88), universal
50148491060	KB2-HTB1 (4xL88 + 2xL54), silver, Ford Transit C.

ARTICLE NUMBER	DESCRIPTION
50148490042	
50148490064	KB2-HTB1 (6x L88), universal, black
50148490041	KB2-HTB1 (4x L88 + 2x L54), universal, white
50148490049	KB1-HTB1 (6xL88) Sprinter 2018, black
50148490072	KB2-HTB1 (6xL88) Sprinter 2018, white
50148490045	
50148490048	KB2-HTB1 (4xL88+2xL54) Sprinter 2018, black
50148490040	
50148490061	
50148490046	
50148490047	
50148490068	
50148490063	KB2-HTB1 (4x L88 + 2x L54), universal, black
50148490071	KB2-HTB1 (4x L88 + 2x L54), Touareg
50148490062	KB2-HTB1 (4x L88 + 2x L52h), universal, black
50148490065	
50148490066	
50148490334	KB2-HTB1 (4x L88 + 2x L54), VW Tiguan
50148490043	KB2-HTB1 (4x L88+2x L54), Ford S-Max, silber
50148490060	KB2-HTB1 (4x L88+2x L54), Ford S-Max FL, schwarz
50148490053	KB2-HTB1 (4x L88+2x L54), Ford S-Max FL, silber
50148490067	KB2-HTB1 (6xL88) Iveco Daily VII, schwarz
50148490070	KB1-HTB1 (6xL88) VW-T6.1, black

TECHNICAL DATA

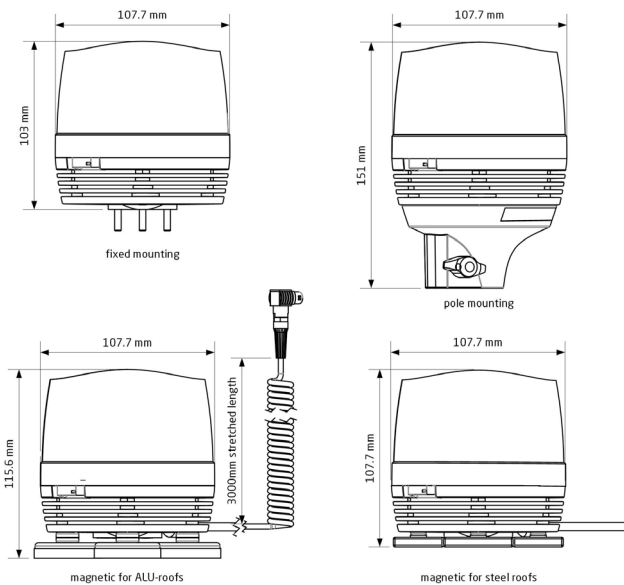|				
colour	blue / amber	blue / amber	blue	blue
variant	6x L88	4xL88 + 2xL54	4xL88 + 2xL52	4xL88 + 2xL52 vert.
nominal voltage	12 / 24 V_{DC}	12 / 24 V_{DC}	12 / 24 V_{DC}	12 / 24 V_{DC}
operating voltage	10 … 30 V_{DC}	10 … 30 V_{DC}	10 … 30 V_{DC}	10 … 30 V_{DC}
current consumption	at 12V: 2.5 A at 24V: 1.3 A I_{PEAK}: < 8.5 A	at 12V: 2.5 A at 24V: 1.3 A I_{PEAK}: < 8.5 A	at 12V: 2.5 A at 24V: 1.3 A I_{PEAK}: < 8.5 A	at 12V: 2.5 A at 24V: 1.3 A I_{PEAK}: < 8.5 A
flashing frequency	2.1 Hz	2.1 Hz	2.1 Hz	2.1 Hz
mounting	built in - L88 Mounting bracket for installation in the radiator grille is available separately	built in - L54 without bracket, vehicle-specific brackets are available separately - L88 Mounting bracket for installation in the radiator grille is available separately	built in - L88 Mounting bracket for installation in the radiator grille is available separately	built in - L88 Mounting bracket for installation in the radiator grille is available separately
dimensions	L88: flashing module: Ø29.0 x 24.1 mm driver: 80.0 x 14.3 x 27.0 mm	L88: flashing module: Ø29.0 x 24.1 mm driver: 80.0 x 14.3 x 27.0 mm L54: flashing module: 85.0 x 36.0 x 15.0 mm driver: 80.0 x 14.3 x 27.0 mm	L88: flashing module: Ø29.0 x 24.1 mm driver: 80.0 x 14.3 x 27.0 mm L52: flashing module: 113 x 28 x 9 mm	L88: flashing module: Ø29.0 x 24.1 mm driver: 80.0 x 14.3 x 27.0 mm L52: flashing module: 113 x 28 x 9 mm
approvals	E5-00059 (blue) (acc. ECE R65 HTB1) E5-0074 (amber) (acc. ECE R65 HTA2)	E5-00059 (blue) (acc. ECE R65 HTB1) E5-0074 (amber) (acc. ECE R65 HTA2)	E5-0079 (acc. ECE R65 HTB1)	E5-0079 (acc. ECE R65 HTB1)

Beacon RHODON

Compact beacon with the highest warning effect, so that you can safely reach your place of use.

Due to the different designs, the RHODON offers a wide variety of mounting options.

Due to the combination of low weight and compact design, the RHODON, as a magnetic beacon, guarantees safe handling in the event of an emergency.

Product features:

- **Highest light output in the most compact installation space**
- **Light intensity: 325 cd**
- **Magnet design approved up to 320 km / h**
- **Day approval according to ECE R65 class 2**
- **Also available as an infrared version (helicopter locator lighting)**
- **Robust and strong in design**

107.7 mm / 103 mm — fixed mounting

107.7 mm / 151 mm — pole mounting

107.7 mm / 115.6 mm / 3000mm stretched length — magnetic for ALU-roofs

107.7 mm / 107.7 mm — magnetic for steel roofs

RHODON IR

SCAN ME
Product video

ARTICLE NUMBER	DESCRIPTION
008508720651	RHODON fixed mount, ISO, 35mm bolt circle
008508730651	RHODON pole mount
008508715651	RHODON magnetic, for steel roof, CLP
008508710651	RHODON magnetic, for steel roof, LEMO
008508700651	RHODON magnetic, for Aluminium roof, LEMO
008508735651	RHODON IR, fixed mount, ISO, 35mm bolt circle
008508745651	RHODON IR, magnetic, CLP

TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 … 32 VDC)
current consumption	at 12V: 1.3 A at 24V: 0.6 A
flashing frequency	2.1 Hz (acc. ECE R65 cl. 2)
luminous intensity	333 cd
protection class	IP X5
mounting	magnetic-, pole-, fixed mounting
cable (magnetic version)	3 m extended length
connectors	- LEMO 4 pin (metal angled plug) - LEMO 6 pin (metal angled plug) - cigarette lightning plug
magnetic versions	- steel roof - aluminium roof
dome- / LED-colour	blue / blue
dimensions	magnetic: 107.7 x 130.8 mm pole mount: 107.7 x 151.0 mm fixed mount: 107.7 x 103.5 mm
weight	approx. 750 g (magnetic version without cable)
approvals	E1 – 004717 (light, ECE R65 cl. 2) E1 – 058210 (ECV, ECE R10)

Beacon B2 RHODON max

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.
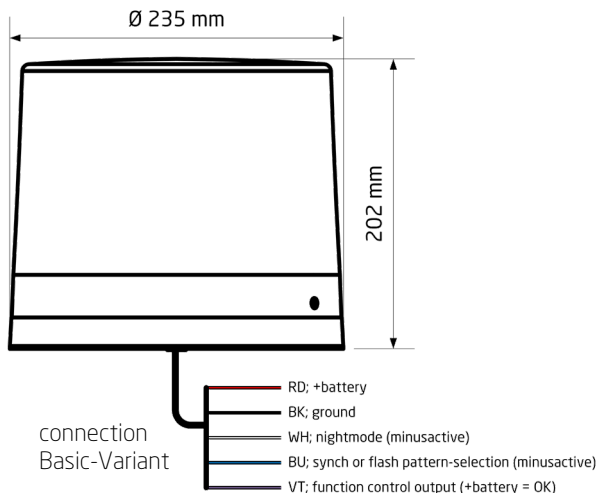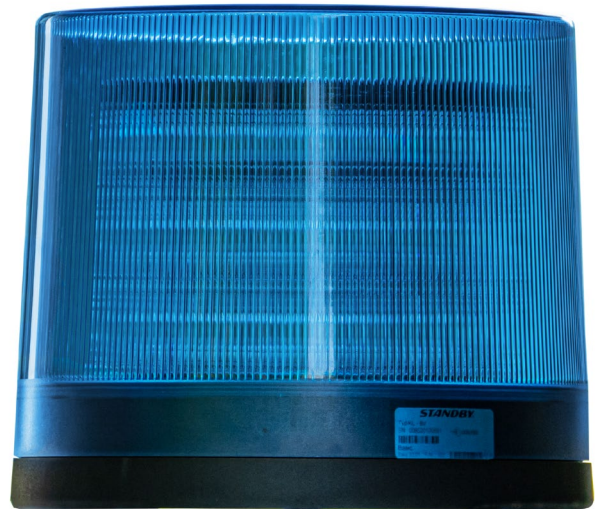
Whether single, double, triple or quad flash, the area of application is flexible and the flash pattern can be set according to customer specifications.
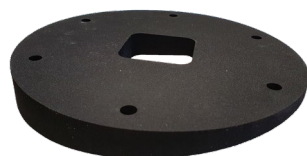All lightning patterns are approved according to ECE R65 TB2.

Several B2 RHODON max Basic can be synchronized.

Product features:

- **Easy 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 bolt circle using 3 screws in a 120 ° arrangement**
- **Function control output**
- **Can be synchronized with other beacons**
- **Approved according to ECE R65 TB2**

Ø 235 mm

202 mm

connection
Basic-Variant

RD; +battery
BK; ground
WH; nightmode (minusactive)
BU; synch or flash pattern-selection (minusactive)
VT; function control output (+battery = OK)

Product videos

SCAN ME   SCAN ME

Inclined rubber gasket 6°

ARTICLE NUMBER	DESCRIPTION
008520100651	B2 RHODON max Basic
008520009652	6° inclined gasket for beacon B2 (foam rubber)

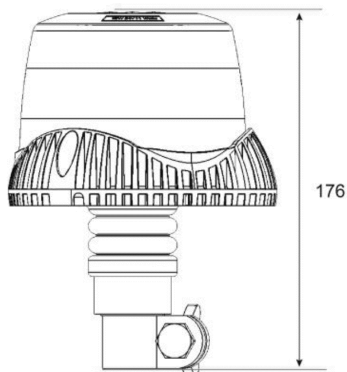| TECHNICAL DATA	
operating voltage	12 / 24 VDC (10 ... 30 VDC)
current consumption	at 12 V: 1.9 ... 2.9 A at 24 V: 1.1 ... 2.0 A (depending on adjusted flash mode) I_{PEAK}: < 5 A
amount of LEDs	36 high power LEDs
flashing modes	single-, double-, tripple-, quad-flash acc. ECE R65 TB2
luminous intensity	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 - operation	 -40 °C ... +90 °C -30 °C ... +50 °C
dimensions - diameter - height	 235 mm 202 mm
approvals	light E1-TB2-005193 acc. ECE R65 class 2 EMC E6-10R-051278 acc. ECE R10

Beacon GyroLED M80

The luminaire for a wide variety of uses and requirements.

Flash pattern: rotating light (slow / fast), flash mode (double flash / triple flash / column function or EASA mode).

Even after the GyroLED M80 has been set up, the functions can be selected individually on the vehicle. The setting is made with a commercially available magnet.

Product features:

- **Approval according to ECE R65 class 1**
- **13 adjustable flash modes**
- **Housing made of polycarbonate**
- **130 bolt circle**
- **Reverse polarity protection**
- **Also available as a magnet version (DEKRA-tested up to 260 km/h)**
- **Robust and durable**

Fixed-Mount

Magnetic Version

Pole-Mount

Pole-Mount
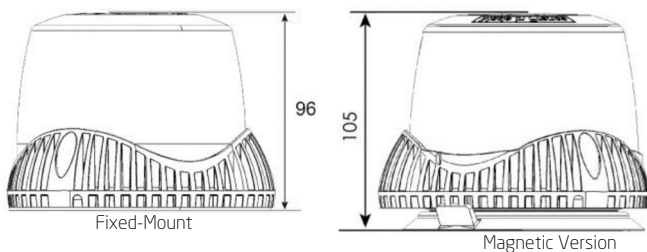
Fixed-Mount

Magnetic Version

Product video

SCAN ME

TECHNICAL DATA	
operating voltage	12/24 VDC (9 … 32 VDC)
current consumption	at 13.5 V: 0.9 A
max. power	11 W
available colours	blue, amber
amount of flashing modes	13
ambient temperature	-40 °C … +85 °C
weight	450 g ; ISO-version 585 g ; pole mount version 750 g ; magnetic version
dimensions (Ø x h)	134 x 96 mm ; ISO-version 134 x 176 mm ; pole mount version 134 x 105 mm ; magnetic version
protection class	IP 45 IK 08
approvals	light: acc. ECE R65 class 1 EMC: E2 10R05 16242

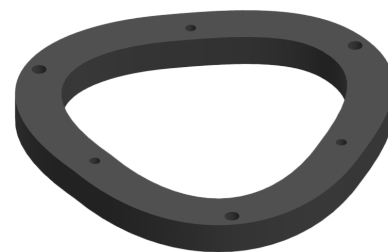| ARTICLE NUMBER	DESCRIPTION
F30576DF	
F30581DF	VEGA mini,amber,magnetic
F31652DF	GyroLED M130, amber, magnetic, rotating
F30577DF	VEGA mini,blue,magnetic
F30582DF	
F31653DF	GyroLED M130, amber, magnetic, double flash

Beacon GyroLED M130

The GyroLED M130 can be used very flexibly as a light for a wide variety of requirements.

Whether rotating light (slow / fast), flash mode (double flash / triple flash / column function or EASA mode).

The function can be selected individually on the vehicle, even after the GyroLED M130 has been set up. The setting is made via a special "setup line".

Product features:

- **Day approval according to ECE R65 class 2 (blue / amber)**
- **13 adjustable flash modes**
- **Housing made of polycarbonate**
- **LED pointing upwards for detection from the air**
- **130/167 bolt circle**
- **Reverse polarity protection**
- **Also available as a magnet version**
- **Robust and durable**

184,5 mm

123 mm

Foam base for GyroLED M130

ARTICLE NUMBER	DESCRIPTION
F28700DF	GyroLED,clear,Stick,CLP,flashing,class1
F29773	
F29774	VEGA 1200 blue, 5x blue front, 5x blue/ambe rear
F29619DF	
F28701DF	
F29775	VEGA 1600 blue, 6x blue front, 6x blue/amber rea
F29776	VEGA 1200 blue, 5x blue/amber rear
F29620DF	
F28703DF	
F29622DF	
F28704DF	
F29623DF	
50148401859	

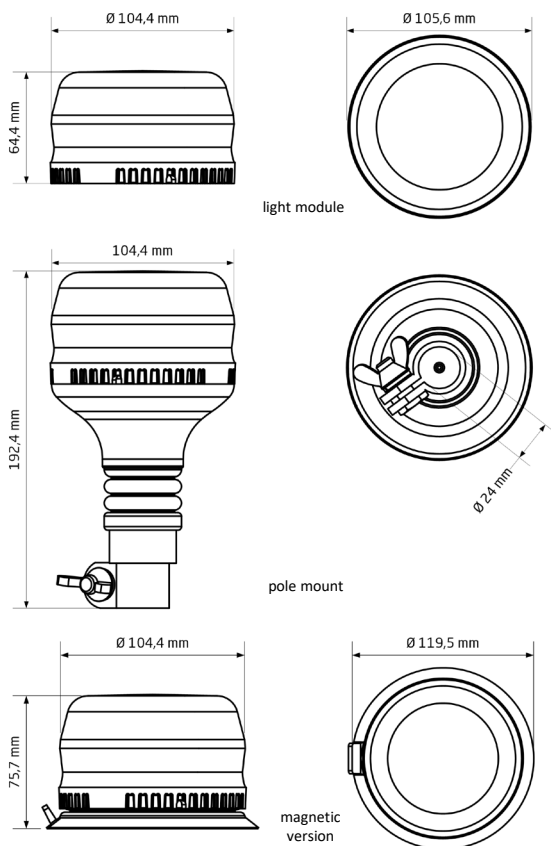| TECHNICAL DATA	
operating voltage	12/24 VDC (9 ... 32 VDC)
current consumption	at 12 V: 1.8 A at 24 V: 0.9 A
available colours	blue, amber, red, green, clear
max power	22 W
ambient temperature	-40 °C ... +85 °C
weight	1.274 kg ; ISO-version 2.221 kg ; magnetic version
dimensions (Ø x h)	184.5 x 123 mm; ISO-version 192.0 x 146 mm; magnetic-version
protection class	IP 45 IK 06
approvals	blue double flash: E2 TB2 0016105 amber double flash: E2 TA2 0016107 blue rotating: E2 TB2 0016106 amber rotating: E2 TA2 0016108 EMC: E2 10R05 16034 CISOR25 (2008)

Beacon GyroLED class 1

The GyroLED Class 1 is the ultimate solution for your needs. This robust rotating beacon not only offers safe use, but also unsurpassed reliability.Available in rotating or flashing versions, it allows flexible adaptation to your requirements. Thanks to ISO fixed mounting, you can rely on this beacon to stay firmly in place, even in the most adverse conditions. It is also available in magnetic or clip-on versions to ensure quick and easy installation.Rely on the GyroLED Class 1 to ensure your safety wherever you are.Translated with www.DeepL.com/Translator (free version)

Product features:

- **Housing made of polycarbonate**
- **Colors: blue, yellow, red, green, clear**
- **Magnetic version without battery**

Only Light mofule, fixed mounting

Magnetic version

Pole-Mount

Motorcycle mast

light module

pole mount

magnetic version

ARTICLE NUMBER	DESCRIPTION
F21908	
F21936	
F21940	
F23491	GyroLED,amber,lightm.flashing,class1
F22303	
F22307	
F22309	
F23557	
F23368	
F23395	
F23396	Poletube with flexible plate
F22614	
F23389	
F25060	

TECHNICAL DATA	
operating voltage	12/24 VDC (10 ... 30 VDC)
current consumption	12 V: 0.90 A 24 V: 0.45 A
available colours	blue, amber, red, green, clear
ambient temperature	-40 °C ... +85 °C
weight	approx. 405 g ; light module approx. 600 g ; pole mount version approx. 950 g ; suction cup version
dimensions (Ø x h)	105 x 64,4 mm; light module 105 x 193,4 mm ; pole mount version 105 x 124,0 mm ; suction cup version
protection class	IP 45
approvals	light: acc. ECE R65 class 1 EMC: acc. ECE R10

Beacon GyroLED class 1 with suction cup

The GyroLED class 1 with suction cup enables the temporary use of a beacon on the vehicle. After it has been put on, the lever generates a vacuum (up to 500 N), which holds the beacon firmly on the vehicle roof. This makes it possible to put it on quickly and safely.
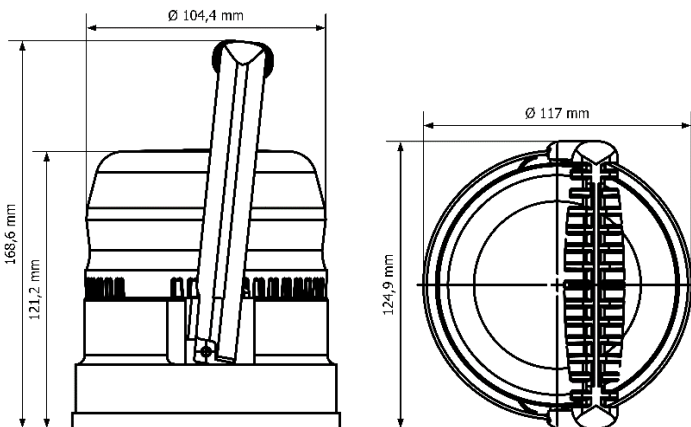
It is available as a rotating or flashing beacon in various colors.

Product features:

- **Housing made of polycarbonate**
- **12/24 V capable**
- **Rotating or double flash**
- **Colors: blue, amber, red, green, clear**
- **Quick and safe installation**
- **Increased suction power through negative pressure (up to 500 N)**
- **usable up to 260 km/h**

Product video **SCAN ME**

Ø 104,4 mm

168,6 mm
121,2 mm

Ø 117 mm

124,9 mm

TECHNICAL DATA	
operating voltage	12/24 VDC (10 ... 30 VDC)
current consumption	12 V: 0.90 A 24 V: 0.45 A
available colours	blue, amber, red gree, clear
ambient temperature	-40 °C ... +85 °C
weight	approx. 950 g
dimensions (Ø x h)	117 x 121.2 mm
protection class	IP 67
Protection against mechanical impact	IK08
approvals	light: acc. ECE R65 class 1 EMC: acc. ECE R10

ARTICLE NUMBER	DESCRIPTION
F24486	
F24490	
F24497	
F24498	
F24493	
F24494	
F27575	GyroLED,clear,lightm.,flashing,class1
F29758	

Beacon GyroLED class 1 battery

The battery-operated GyroLED class 1 is a very robust rotating beacon with a magnetic base, which enables safe use.

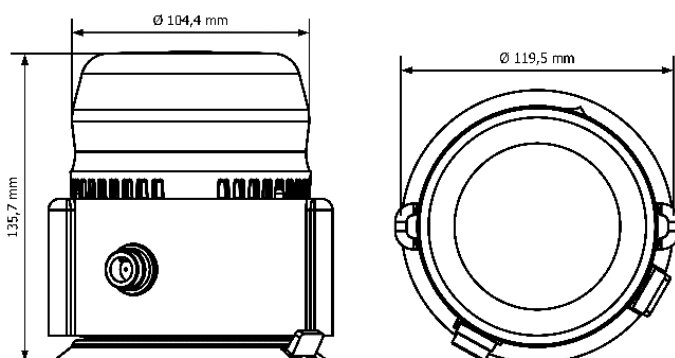It is available as a rotating or flashing beacon with a magnetic base.

The built-in rechargeable battery enables operation for up to 4 hours. A suitable charger for 12 VDC or 230 VAC is included in the delivery.

Product features:

- **Housing made of polycarbonate**
- **Colors: blue, amber, clear**
- **Magnet version with battery**
- **up to 4 hours of battery operation**
- **usable up to 260 km/h**

SCAN ME Product video

Ø 104,4 mm

135,7 mm

Ø 119,5 mm

ARTICLE NUMBER	DESCRIPTION
F23398	TRILED 500
F23399	Loudspeaker LS150 red
F23401	
F23403	Flatbase with attachment
F27157	
F27158	GyroLED,amber,Stick,CLP,rotating,class1
F27160	GyroLED,green,Stick,CLP,rotating,class1
F29716	VEGA 1600 blue, 6x blue front
ACCESSORIES	
F23710	GyroLED,amber,BAT,magnetic,rotating,12V,class1
F23709	GyroLED,blue,BAT,mag.,flashing,12V,class1

TECHNICAL DATA	
operating voltage	
➤ beacon	12/24 VDC (10 ... 30 VDC)
➤ charging unit	12 VDC or 230 VAC
current consumption	12 V: 0.90 A 24 V: 0.45 A
battery	Lithium Polymer (21.6 V; 2.9 A)
available colours	blue, amber, clear
ambient temperature	-40 °C ... +85 °C
weight	
➤ beacon	approx. 1 kg
➤ charging unit	approx. 400 g
dimensions (Ø x h)	119 x 139 mm
protection class	IP 67
Protection against mechanical impact	IK08
approvals	light: acc. ECE R65 class 1 EMC: acc. ECE R10

Accessories for Beacons

universal bracket for beacons (1 item) (PN: 50148400850) **SCAN ME**	bracket for VW T6.1 (1 item) (PN: 50148400855)
inclined rubber gasket 6° for 200 mm bolt-circle (B2) (PN: 008520009652)	inclined rubber gasket 2,1° for 130 mm bolt-circle (B1) (PN: 007533300652)
rubber gasket for fixed-mounting RHODON (PN: 008508381652)	mounting pole, angled, 2pin (PN: 007528120652)
mounting pole with mounting-plate (PN: F16065)	mounting pole with thread, 2pin (PN: 007528111652)
flat base with attachment(PN: F21703)	mounting pole with flexible plate (PN: F17126)
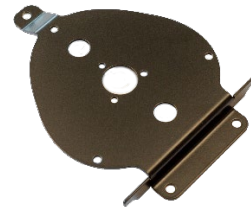
tripod for pole-mount-beacons, 1000 mm
(PN: 50250006044)

STANDBY®

When attention matters.

Control Panels

Control Panel BT-H 100

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 features:

- **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**

Available keycaps
(will be extended if required)

Product video   **SCAN ME**
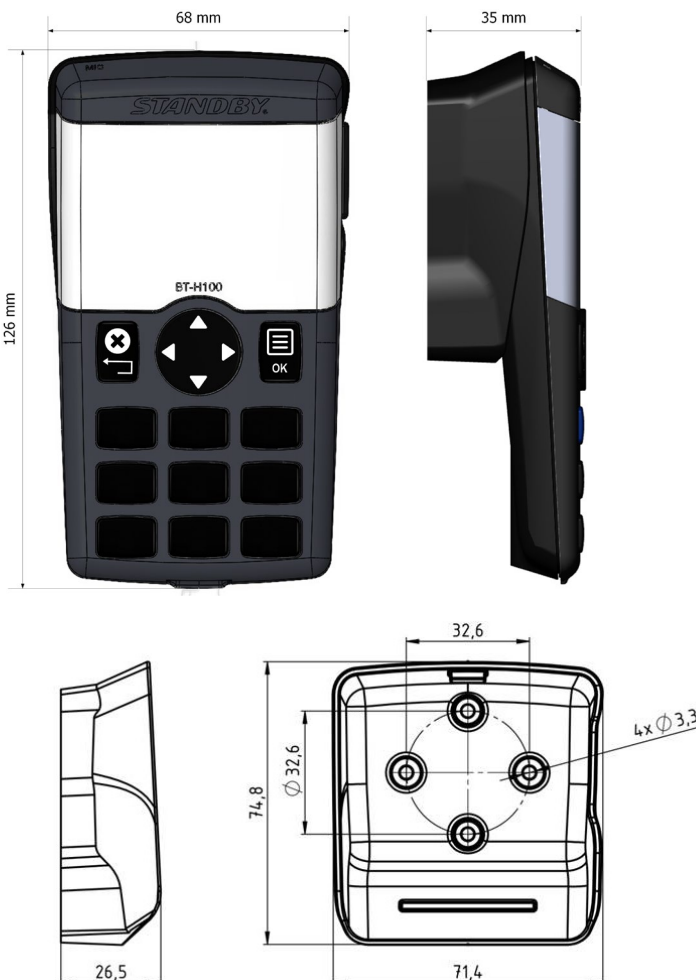
TECHNICAL DATA	
operating voltage	12 VDC (9 ... 14.4 VDC)
current consumption	< 60 mA in operation < 1 mA in standby mode
ambient temperature - operation - storage / transport	 -40 ... +70 °C -40 ... +80 °C
protocol	- compatible with all standby public safety systems - CANopen 447, compatible as roofbar-controller - 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)
approval	E1-10R-058066 (EMC)

Control Panel BT-CH / BT-CH2

The versatile options of the BT-CH and BT-CH2 cupholder control panels - the perfect solutions for individual control in your vehicle. Thanks to an extensive selection of backlit button caps, you can not only choose your own personal design, but also adapt the functions to your specific application.

The cupholder controls are particularly suitable for concealed installation or situations where installation space is limited. Their unobtrusive integration allows them to blend seamlessly into your vehicle without detracting from its aesthetic appearance.

The customizability of the functions allows you to configure the buttons according to your individual requirements. Whether used as a stand-alone system or in conjunction with the MS-350 to control the lightbar, the cupholder controls offer a flexible solution for different operating requirements.

The backlit keycaps not only improve the aesthetics, but also the operability in poor lighting conditions.

Experience a new dimension in vehicle operation with the BT-CH and BT-CH2 cupholder control panels - for individual, unobtrusive control in line with your needs.

Product features:
- **9 programmable backlit buttons for quick and safe operation, even at night**
- **Installation in the cup holder device**
- **Ideal for concealed installation**
- **Control via CAN bus**
- **12V capable**

BT-CH1

BT-CH2

BT-CH2   BT-CH1

Available keycaps
(will be extended if required)
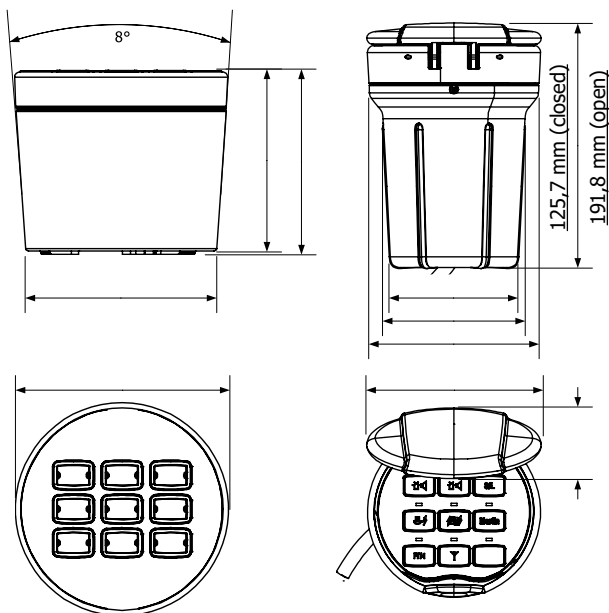
TECHNICAL DATA	
Nominal voltage	12 VDC (9 … 14,4 VDC)
Current consumption	approx. 100 mA
Number of keycaps	9
Protocol	CAN-Bus, CiA447
Protection class	IP40
Ambient temperature	-40°C … +80°C

Weight
    - BT-CH
    - BT-CH 2
	
	230 g
	120 g

Approval	ECE R10

8°

125,7 mm (closed)
191,8 mm (open)

Control Panel H1 Handy-Button

The H1 handy button guarantees that your most important functions can be activated without taking your eyes off the road. A robust structure and a switching unit consisting of several parallel controlled buttons guarantee a function with every actuation and in every situation.

Switch on the blue light with the H1 handy button, then activate the special signal or switch between city and country signals when the blue light is activated. The selected function is optically displayed via an RGB LED in the front of the housing and also serves as lighting for finding in the dark.

The H1 handy button is programmed according to your ideas and can be positioned anywhere in your vehicle.

Product features:

- **CAN bus control unit**
- **Programmable key**
- **Programmable RGB-LED for function display and lighting for location**
- **Robust overall structure**
- **Compact dimensions**
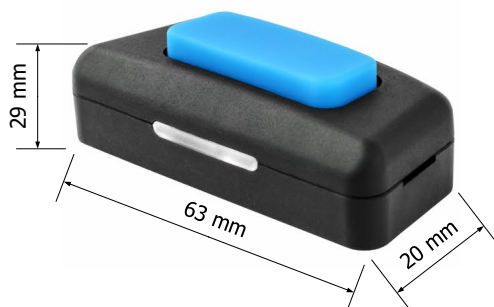
Product video SCAN ME

TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
cable	1 m
dimensions	63 x 29 x 20 mm
weight	approx. 25 g (without cable) approx. 57 g (with cable)
ambient temperature	-20 °C … +85 °C
interface	CAN-Bus
approval	acc. ECE R10

ARTICLE NUMBER	DESCRIPTION
S60530301	

Control Panel Touchpanel T4

The T4 touch panel redefines the standards for the control of special vehicles by taking into account all requirements for use, safety and functionality. This proprietary panel has been specially developed to meet the highest demands. Here are some outstanding features:

The T4 touch panel adapts flexibly to different vehicle types and offers maximum application possibilities with its 4-inch screen. The clear symbols make operation easier and can be adapted to the customer's individual requirements, which is particularly advantageous when producing smaller quantities of vehicles.

The screen is equipped with an overlay that not only makes the correct button easily recognizable, but also increases safety while driving. The clear symbols and user-friendly interface make the T4 touch panel an indispensable element in vehicles.

With its high IP protection rating, the touch panel is fully wipeable and can even be used in demanding, humid environments. The rounded edges meet crash requirements and ensure safety in the driver's environment. Tested to ECE R10 and approved to the highest safety standards.

The T4 complies with sustainability and environmental standards in accordance with GMW3127. This ensures not only the functionality but also the ecological compatibility of the product.
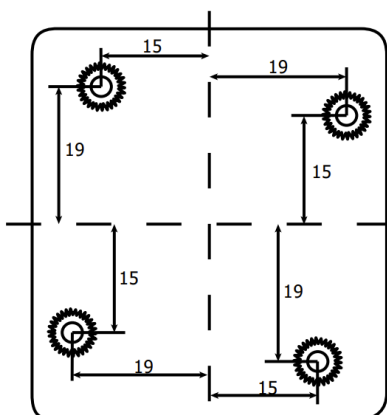
The T4 touch panel is the ideal solution for emergency and special vehicles where the highest demands are placed on use, reliability and function. Rely on the innovative technology of the T4 touch panel to optimize your driving experience.

Product features:

- **Flexibility to change symbols**
- **Rounded edges to withstand impacts in the event of a collision**
- **Simultaneous use of two panels in one system possible**
- **Approved according to ECE R10 and IP65**

Occupancy example

TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
current consumption	100 mA (0,15 mA in Standby-Mode)
interface	CAN-Bus
cable	0,5 m
mounting	AMPS-drilling template
dimensions	126 x 87 x 19,5 mm
ambient temperature	-20 °C … +70 °C
protection class	IP 65
approval	according ECE R10

drilling template according AMPS

Control Panel Panel P4

The P4 panel is a completely new keypad that highlights the most important functions in on-call duty. The buttons have been integrated into a small housing to fit more easily into the driver's environment.

The panel is connected to our standby systems via CAN bus and has backlit buttons and multi-colour diodes for easy visibility in the dark. It also has a light sensor that regulates the brightness of the panel to a comfortable level that is not perceived as annoying.

Our focus is always user safety and with its manageable size it should be able to be placed close to the steering wheel to minimize the driver's focus on the road. The icons we offer are the siren/blue light, blue light, stop function and on/off for the system, however this can be adjusted to suit the needs of larger fleets.

The design is adapted to the crash requirements in the vehicle environment; the attachment points on the back allow different mounting locations depending on the vehicle environment.

Area of application: Police and other emergency vehicles that place very high demands on safety, ergonomics and quality.

The panel is available in two versions:
- a version with four buttons (P4)
- a version with three buttons and a rotary pushbutton (P4S)

Product features:

- **Clear buttons that allow the driver to focus on driving and not take their eyes off the road**

- **Indicator LEDs and backlit buttons that make it easier to use in the dark**

- **Ergonomically designed panel with a premium feel**

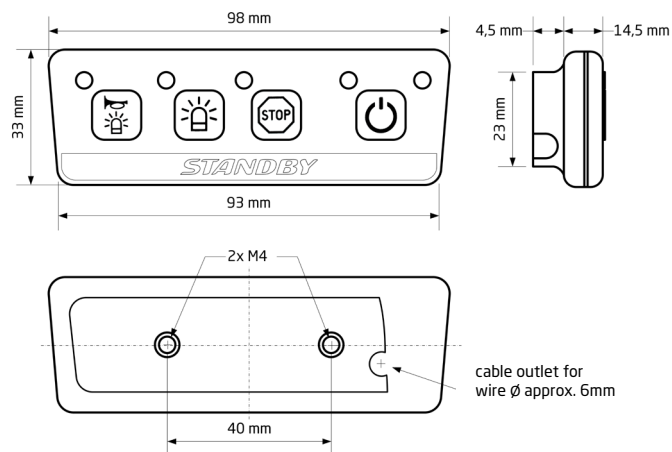- **Programmable CAN panel that can be customized to the user's needs**

P4-Panel

P4S-Panel

P4S-Panel
for ASWmove

98 mm	4,5 mm	14,5 mm
33 mm	23 mm	
93 mm		

2x M4

cable outlet for wire Ø approx. 6mm

40 mm

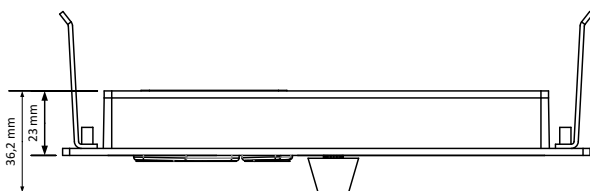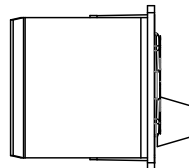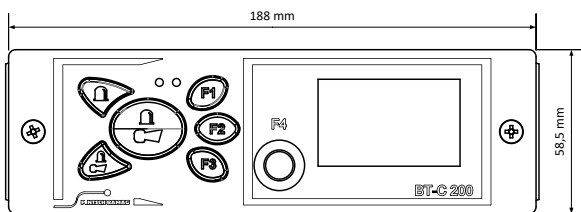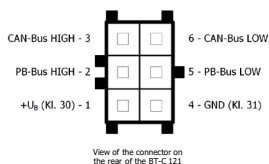| TECHNICAL DATA	
operating voltage	12/24 VDC (10 … 30 VDC)
current consumption	< 100 mA in operation < 150 µA in standby-mode
ambient temperature	-40 … +70 °C
Interface	CAN-Bus (Standby-own protokoll)
cable	1m connection cable
dimensions	98 x 33 x 19 mm
approval	according ECE R10 (EMV)

ARTICLE NUMBER	DESCRIPTION
S60530321	
S60530341	
S60530342	#NV

Control Panel BT-C 200

The BT-C 200 control unit is used when a large range of functions in light bars and special signal systems has to be activated. The menu navigation and placement of the individual functions are implemented according to customer requirements.

Product features:

- **CAN-Bus**
  - ➢ **CANopen 447**
  - ➢ **FireCAN**
  - ➢ **SEA J1939-11**
  - ➢ **Standby-own Bus**
  - ➢ **other CAN protocols on request**

- **Standard functions:**
  - ➢ **Rotating beacon ON / OFF**
  - ➢ **Horn ring preselection**
  - ➢ **Continuous signal**
  - ➢ **City / country switching**
  - ➢ **Beacon control left / right**

- **possible functions:**
  - ➢ **LED displays ON / OFF**
  - ➢ **Front flash OFF / ON**
  - ➢ **High power front flash ON / OFF**
  - ➢ **ASWs ON / OFF**
  - ➢ **Radio main switch**
  - ➢ **Voice announcements**
  - ➢ **Test function**
  - ➢ **further functions on request**

- **Function lock according to customer specifications**

- **Illuminated keys with backlighting (night locator lighting)**

CAN-Bus HIGH - 3	6 - CAN-Bus LOW
PB-Bus HIGH - 2	5 - PB-Bus LOW
+U_B (Kl. 30) - 1	4 - GND (Kl. 31)

View of the connector on the rear of the BT-C 121

TECHNICAL DATA

nominal voltage	12/24 V_{DC}
operating voltage	9 … 14.4 / 21.6 … 28.8 V_{DC}
current consumption	< 100 mA in operation < 0.12 mA in standby mode
ambient temperature - operation - storage / transport	 -40 … +70 ℃ -40 … +80 ℃
dimensions	188.0 x 58.5 x 56.0 mm
weight	218 g
approval	e1-036352 (EMC)

Product video **SCAN ME**
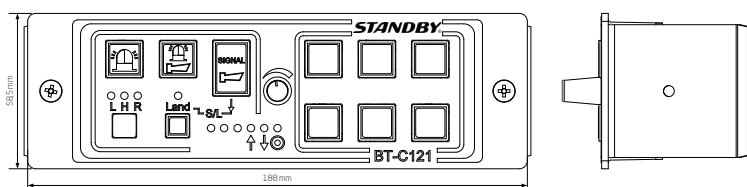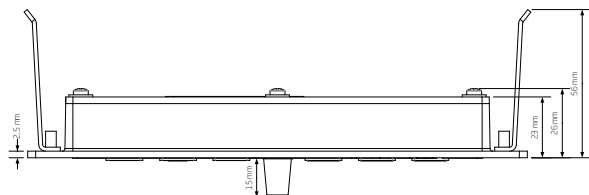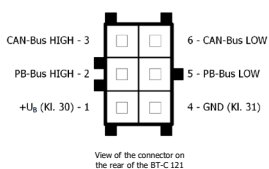
Control Panel BT-C 121

The CAN control unit BT-C 121 is suitable for installation in DIN radio slots. Individual assignment of the function keys with dependencies are implemented according to customer requirements.

Product features:

- **CAN-Bus**
  - **CANopen 447**
  - **FireCAN**
  - **SEA J1939-11**
  - **Standby-own Bus**
  - **other CAN protocols on request**

- **Standard functions:**
  - **Rotating beacon ON / OFF**
  - **Horn ring preselection**
  - **Continuous signal**
  - **City / country switching**
  - **Beacon control left / right**

- **possible functions:**
  - **LED displays ON / OFF**
  - **Front flash OFF / ON**
  - **High power front flash ON / OFF**
  - **ASWs ON / OFF**
  - **Radio main switch**
  - **Voice announcements**
  - **Test function**
  - **further functions on request**

- **Function lock according to customer specifications**

- **Illuminated keys with backlighting (night locator lighting)**

selection of possible key pads

View of the connector on the rear of the BT-C 121

CAN-Bus HIGH - 3	6 - CAN-Bus LOW
PB-Bus HIGH - 2	5 - PB-Bus LOW
+U$_B$ (Kl. 30) - 1	4 - GND (Kl. 31)

Product video

SCAN ME

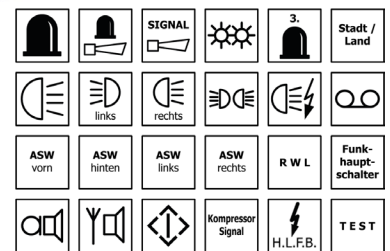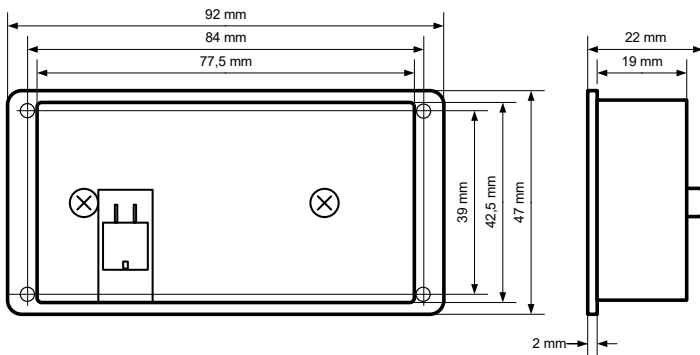| TECHNICAL DATA	
operation voltage	12/24 VDC (9 ... 14.4 / 21.6 ... 28.8 VDC)
current consumption	< 100 mA in operation < 0,12 mA in standby mode
ambient temperature - in operation - storage / transport	 -40 ... +70 °C -40 ... +80 °C
dimensions	188.0 x 58.5 x 56.0 mm
weight	approx. 205 g
approval	e1-036352 (EMC)

Control Panel BT-220

The BT-220 control panel meets all requirements (such as small and compact) that are required to operate a special signal system.

Product features:

- **Standard functions:**
    - ➤ **Beacons on**
    - ➤ **Horn button preselection**
    - ➤ **Continuous signal**
- **Possible functions:**
    - ➤ **Front flash**
    - ➤ **High power front flash**
    - ➤ **Work and search lights**
    - ➤ **LED displays**
    - ➤ **Backlighting**
    - ➤ **Radio main switch**
    - ➤ **test**
    - ➤ **3. Beacon**
    - ➤ **etc.**
- **4 control LEDs e.g. for:**
    - ➤ **Beacon control**
    - ➤ **City / country signal**
    - ➤ **indicator**
    - ➤ **Headlights**
    - ➤ **LED display**
    - ➤ **etc.**
- **Illuminated keys (with night locator lighting)**
- **Possibility of an acoustic signal when a function is activated**
- **Function locks according to customer requirements**
- **CAN bus (Standby own bus, CiA447)**

selection of possible key pads

TECHNICAL DATA

|	
operation voltage	12/24 VDC (10.8 … 14.4 / 21.6 … 28.8 VDC)
current consumption	< 200 mA in operation < 60 µA in standby mode (33 mA with night lightning)
ambient temperature - in operation - storage / transport	 -25 … +70 °C -30 … +80 °C
protocol	- compatible to all standby public safety systems - CANopen 447
connection	by Micro-MOLEX-connector, 6pin
dimensions - over all - built in	 - 92.0 x 47.0 x 22.0 mm - 77.5 x 42.5 x 19.0 mm
weight	approx. 112 g
approval	E1-10R-058066 (EMC)

Product video   **SCAN ME**

Control Panel BT-210

The mini control unit BT-210 replaces the function of the alarm rotary pull switch with three additional freely programmable function keys, which can be assigned to any function.

Product features:

- **Standard functions:**
  - ➢ **Beacons on**
  - ➢ **Horn button preselection**
  - ➢ **Continuous signal**
- **Alternatively, also available with a neutral key mat**
- **Bus connection to the MS-350 control unit**
- **Illuminated keys (with night locator lighting)**
- **Acoustic function feedback**
- **Suitable for installation and assembly**
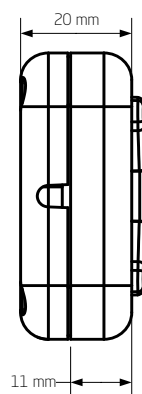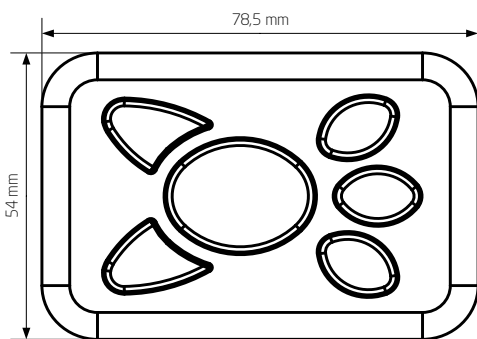
TECHNICAL DATA	
operating voltage	12 VDC (10.8 ... 14.4 VDC)
current consumption	< 200 mA in operation < 0,5 mA in standby mode
ambient temperature - in operation - storage / transport	 -40 ... +70 °C -40 ... +85 °C
weight	approx. 70 g
dimensions	78.5 x 54 x 22.5 mm
approval	e1-034713 (EMC)

Product video   SCAN ME

Control Panels BT-2004/2006/2008/2012/2017

The control units BT-2004 / BT-2006 / BT-2008 / BT-2012 / BT-2017 meet all the requirements that are required to operate a special signal system.

Product features:

- **Standard functions:**
  - ➢ **Beacons on including horn ring preselection**
  - ➢ **Continuous signal**

- **Possible functions:**
  - ➢ **Front flash**
  - ➢ **High power front flash**
  - ➢ **Work and search lights**
  - ➢ **LED displays**
  - ➢ **Backlighting**
  - ➢ **Radio main switch**
  - ➢ **test**
  - ➢ **3. Beacon**
  - ➢ **etc.**

- **6 control LEDs (BT-2017) e.g. for:**
  - ➢ **Beacon control**
  - ➢ **City / country signal**
  - ➢ **indicator**
  - ➢ **Headlights**
  - ➢ **LED display**
  - ➢ **etc.**

- **Illuminated keys (with night locator lighting)**
- **Possibility of an acoustic signal when a function is activated**
- **Function locks according to customer requirements**
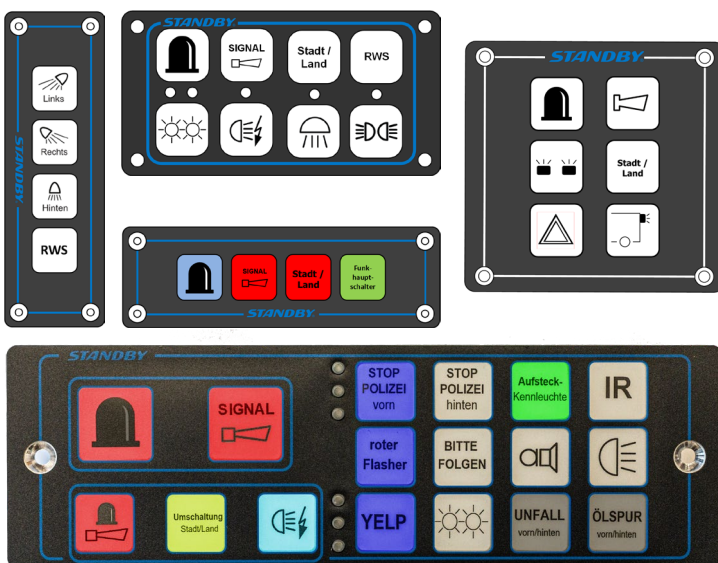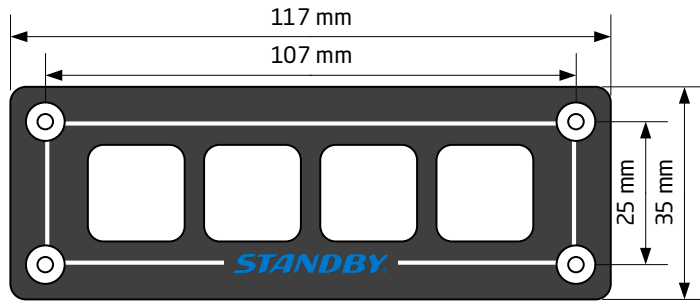- **CAN bus**

BT-2017

BT-2012

BT-2004

BT-2008

BT-2006

Occupany examples

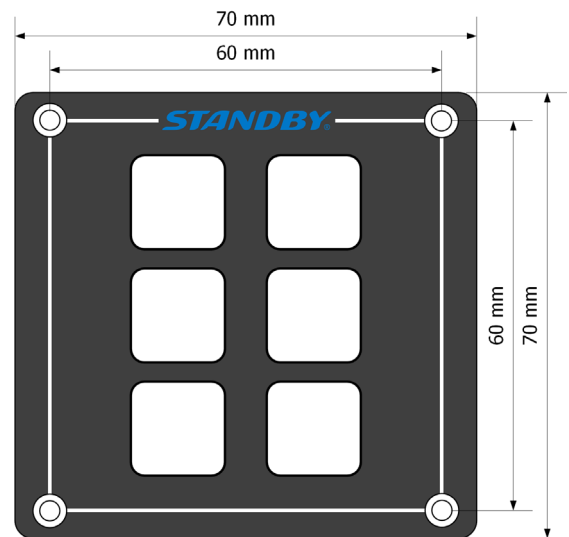| TECHNISCHE DATEN	
operating voltage	12/24 VDC (10,8 ... 28,8 VDC)
mounting	Built in mounting
dimensions	BT-2004: 117 x 35 x 26 mm BT-2006: 70 x 70 x 26 mm BT-2008: 92 x 47 x 26 mm BT-2012: 188 x 59 x 30 mm BT-2017: 188 x 59 x 30 mm
weight	BT-2004: approx. 86 g BT-2006: approx. 124 g BT-2008: approx. 106 g BT-2012: approx. 233 g BT-2017: approx. 205 g
protection class	IP54
interface	CAN-Bus
connector	MOLEX MicroFit Jr., 4 pin
approval	acc. ECE R10

Control Panels BT-2004/2006/2008/2012/2017

117 mm

107 mm

25 mm

35 mm

BT-2004

Installation depth: 26 mm

92 mm

84,5 mm

39,5 mm

47 mm
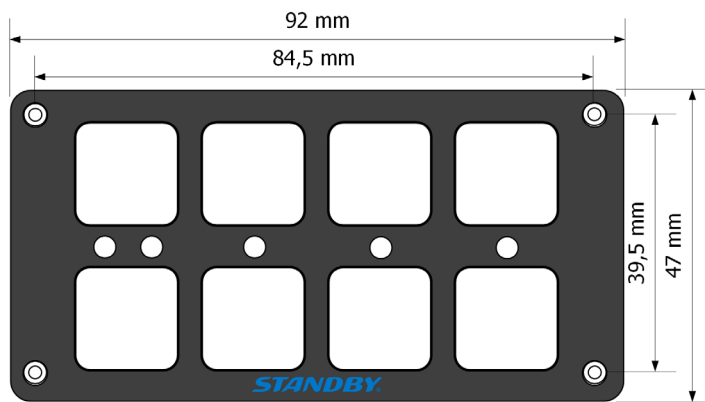
BT-2008

Installation depth: 23 mm

70 mm

60 mm

60 mm

70 mm

BT-2006

188 mm

170 mm

59 mm
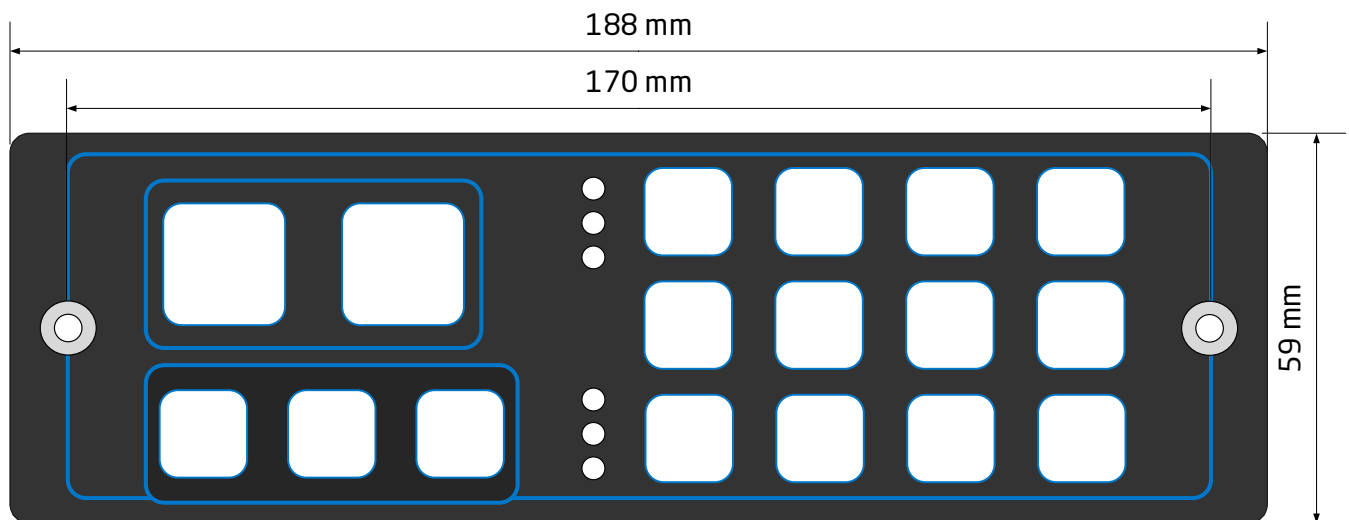
Installation depth: 30 mm

BT-2012 / BT-2017

STANDBY®

When attention matters.

Headlights and Ambient Lighting

Searchlight ASWmove

The ASWmove searchlight is minimal due to its low height and allows the entire area to be illuminated.

If the ASWmove is mounted on a light bar and it shines to the left or right, the alley lights in the light bar are automatically switched on to further increase the illumination.

The ASWmove searchlight is controlled via the BT-H 100, the P4 panel or via the CAN bus. After switching off, it automatically returns to the "0" position.

Product features:

- **Low installation height**

- **Automatically move to the "0" position after switching off**

- **Automatic switching on of the Alley Light in the light bar when reaching the "blind" area**

- **Control via BT-H 100, Panel P4 or CAN bus**

ASWmove mounted on W3

ASWmove Magnet with Panel P4

Product videos

SCAN ME   SCAN ME

TECHNICAL DATA				
operating voltage	12/24 VDC (9 … 32 VDC)			
current consumption	off: in standby mode, LEDs off: in operation LEDs a. Motor on:	12 V: 45 µA 12 V: 26 mA 12 V: 1,6 A	13,5 V: 46 µA 13,5 V: 26 mA 13,5 V: 1,5 A	24 V: 150 µA 24 V: 35 mA 24 V: 1,15 A
LED-colour	white			
dome colour	clear			
amout of LEDs	6			
luminous intensity	22.000 cd			
luminous flux	800 lm			
colour temperature	5700 K … 7000 K			
beam angle	vertikal: 20° over an angle of -10° to +90° horizontal: 60° over an angle of 360°			
weight	955 g			
dimensions	⌀160 x 130 mm			
protection class	IP 5K4K / IP X9K / IP65			
approvals	EMV acc. ECE R10 (E1-10R-09568), BOS CISPR 25 class 5			

illumination diagram – horizontal
ASWmove 2x WIDE + 4x SPOT optics

horizontal distance / m

distance / m

LUX   ☐1-2   ☐2-4   ☐4-8   ☐8-16   ■16-32   ■32-64   ■64-128

ARTICLE NUMBER	DESCRIPTION
50158400401	#NV
50158400409	
50158400501	
50158400505	
ACCESSORIES	
50150000409	

Headlight HALO 31 LED 40"

The Vision X XPL Halo is a performance giant with a single row of powerful 5 watt CREE LEDs, similar to the PX ramp. But the difference lies in the eye-catching halo lighting effect that surrounds the reflectors, providing added visual appeal.

New and improved in a curved design, the XPL Halo now better matches the shape of modern vehicles. This design distributes the light slightly wider and is particularly useful for driving on winding roads as it provides improved illumination.

With a robust aluminum/composite housing, the XPL Halo is designed for durability. The unbreakable polycarbonate lens and moisture-resistant pressure relief valve ensure a long service life, while the robust construction can withstand vibrations up to 15.6 grams.

Not only that, but the XPL Halo has additional features such as a built-in EMC interference filter to prevent interference with the vehicle's electronic systems. The active temperature control with Prime Drive and ETM ensures efficient performance in a wide temperature range from -40 °C to +80 °C.

Certified according to CE and RoHS, as well as waterproof according to IP68/IP69K, the XPL Halo shows its capabilities under extreme conditions. The color temperature of 6000 Kelvin provides a clear, bright light, while the temperature test shows that it can withstand extreme temperatures.

Relay cabling is included for easy installation, as are the side wing brackets. Additionally, the halo effect is available on a separate cable to add a personalized touch to your vehicles.

Product features:
- **Robust aluminum/composite housing**
- **Unbreakable polycarbonate lens**
- **Moisture resistant pressure relief valve**
- **Robust construction - withstands vibrations up to 15.6 Grms**
- **Built-in EMC interference filter (CISPR 25) - does not interfere with the vehicle's electronic systems**
- **Active temperature control with Prime Drive and ETMCE-approved, RoHS-certified**
- **Waterproof IP68/IP69KColor temperature 6000 Kelvin**
- **Temperature tested from -40 °C to +80 °C**
- **Relay cabling included in the scope of delivery**
- **Side wing brackets included in the scope of delivery**
- **Halo effect on a separate cable**

TECHNICAL DATA	
Operating voltage	12 / 24 VDC (9 … 32 VDC)
Power consumption	155 W
Current Consumption	12V: 12,9 A
Luminous flux	11.610 lm effective
Range @ 1 Lux	463 m
Colour temperature	6000 K
Impact and shock resistance	15,6 Grms
Dimensions (w x h x d)	1021 x 52 x 61 mm
Weight	3,85 kg
Ambient temperature	-40 °C … +80 °C
Protection class	IP 68, IP69K
Approvals	CISPR 25, CE, RoHS

| ARTICLE NUMBER	DESCRIPTION
RXPL-HC31EMH	VX XPL CURVED HALO 31 LED 40"

Headlight HALO 9/15/24 LED SPOT

The Vision X XPL Halo is a discreet, flat LED light strip that is ideal for modern vehicles. It provides sufficient light without taking up much space or attention. With a single row of powerful 5 watt CREE LEDs, this model also features an eye-catching halo lighting effect surrounding the reflectors.

With a rugged aluminum/composite housing and an unbreakable polycarbonate lens, the XPL Halo is designed to meet a variety of challenges. A moisture-resistant pressure relief valve and robust construction allow it to withstand vibrations of up to 15.6 Grms without compromising performance.

The integration of a built-in EMC interference filter (CISPR 25) ensures that it does not interfere with the vehicle's electronic systems. Active temperature control with Prime Drive and ETM enables optimum performance at temperatures from -40°C to +80°C.Certified to CE and RoHS and with a waterproof rating of IP68/IP69K, the XPL Halo is designed to excel even in extreme conditions. With a color temperature of 6000 Kelvin, it provides clear, bright illumination.

Relay cabling and mounting feet are included for easy installation. Side wing brackets are available as optional accessories. In addition, the halo effect works via a separate cable, providing customization options for vehicle lighting.
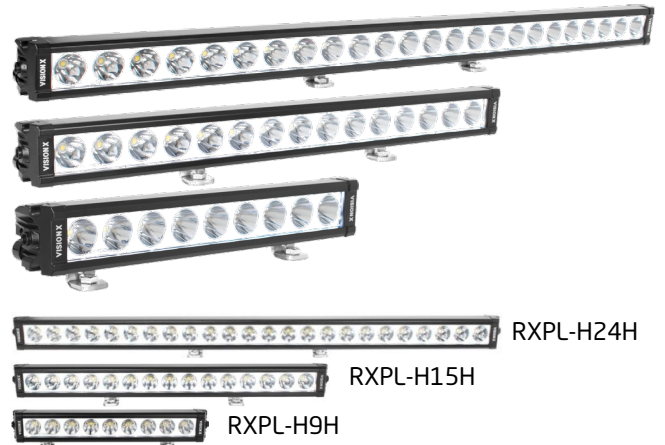
RXPL-H24H

RXPL-H15H

RXPL-H9H

Product features:
- **Robust aluminum/composite housing**
- **Unbreakable polycarbonate lens**
- **Moisture resistant pressure relief valve**
- **Robust construction - withstands vibrations up to 15.6 Grms**
- **Built-in EMC interference filter (CISPR 25)- does not interfere with the vehicle's electronic systems**
- **Active temperature control with Prime Drive and ETMCE-approved, RoHS-certified**
- **Waterproof IP68/IP69KColor temperature 6000 Kelvin**
- **Temperature tested from -40 °C to +80 °CRelay cabling included in scope of delivery**
- **Mounting feet included, side wing brackets are optional**
- **Halo effect on a separate cable**

TECHNICAL DATA	H9H	H15H	H24H
Operating voltage	12 / 24 VDC (9 … 32 VDC)		
Power consumption	45 W	75 W	120 W
Current consumption 12 V 24 V	3,75 A 1,88 A	6,25 A 1,88 A	10 A 5 A
Luminous flux	3.371 lm	8.025 lm	12.840 lm
Range @ 1 Lux	330 m	451 m	550 m
Colour temperature	6000 K		
Impact and shock resistance	15,6 Grms		
Abmessungen - Length - Width - Depth	335 x 52 x 61 mm	527 mm	815 mm
Weight	3,85 kg	1,4 kg	2,1 kg
Ambient temperature	-40 °C … +80 °C		
Protection class	IP 68, IP69K		
Approvals	CISPR 25, CE, RoHS		

ARTICLE NUMBER	DESCRIPTION
RXPL-H9H	VX XPL SERIES HALO 9 LED 13" SPOT
RXPL-H15H	VX XPL SERIES HALO 15 LED 21" SPOT
RXPL-H24H	VX XPL SERIES HALO 24 LED32" SPOT

Headlight VL Square

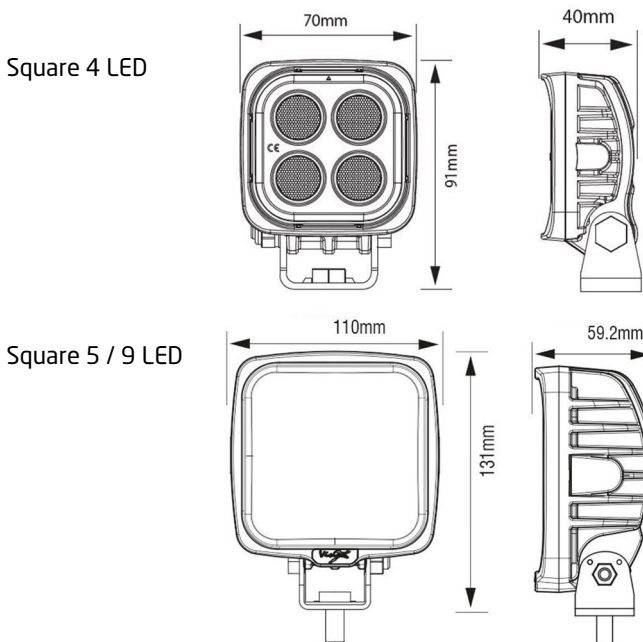Illuminate your work with the VL-Series LED floodlights!

Experience exceptional brightness with the VL-Series LED floodlights, offering outstanding light output in a functional design that can be effortlessly adjusted with a single screw mount. The high quality construction and components ensure that the VL Series LED can withstand vibrations of up to 15.6Grms. The built-in reverse polarity protection provides an additional layer of safety and protects against accidental damage caused by incorrect installation.

The VL-Series LED headlight stands out as a high-quality and versatile solution designed for a variety of lightweight commercial applications.

Whether you work in the fire department, emergency services, construction or agriculture, the VL-Series offers an ideal lighting solution for your work area. Invest in a lighting solution that combines quality, versatility and performance - choose the VL-Series LED headlight for your lighting needs!

Product features:
- **Outstanding light output: up to 3326 lm eff.**
- **Easy adjustment: single screw mounting**
- **Robust aluminum construction**
- **DT connector that saves time and effort**
- **Voltage range 9-32 volts**
- **Waterproof: IP67**

Square 4 LED

Square 5 / 9 LED

TECHNICAL DATA	4 LED	5 LED	9 LED
Operating voltage	12 / 24 VDC (9 … 32 VDC)		
Power consumption	12 W	20 W	45 W
Current consumption at 12V	1,00 A	1,67 A	3,75 A
Luminous flux (effective)	1081 lm	1643 lm	3326 lm
Number of LEDs	4	5	9
Impact and shock resistance	15,6 Grms		
Height	91 mm	131 mm	131 mm
Width	70 mm	110 mm	110 mm
Depth	40 mm	60 mm	60 mm
Weight	0,4 kg	1,0 kg	0,9 kg
Ambient temperature	-40 °C … +80 °C		
Protection class	IP 67		
Approvals	CISPR 25 Class 3		

ARTICLE NUMBER	DESCRIPTION
RVWS030440	VISION X VL SERIES SQUARE 4-LED 12W W/DT
RVWS040540	VISION X VL SERIES SQUARE 5-LED 20W W/DT
RVWS050940	VISION X VL SERIES SQUARE 9-LED 45W W/DT

Headlight VL Compact 3

Experience revolutionary lighting performance with the VL series!

Our product not only impresses with its impressive brightness, but also with a functional design that can be easily adjusted with a single screw mount.

Thanks to its high-quality construction and first-class components, the VL series can withstand even intense vibrations of up to 21 grms. This makes it the ideal choice for applications where robustness and reliability are essential.

The integrated protection function against incorrect polarity minimizes the risk of damage due to improper installation. Your safety is our top priority.

The VL series work light is a versatile and cost-effective solution, specially designed for numerous applications. Our LED light offers you the optimum lighting solution for every situation.

Discover the unbeatable combination of quality, versatility and value with the VL series - your reliable choice for any lighting requirement.

Product features:
- **Housing made of robust composite material**
- **Crystal clear vision with polycarbonate lens**
- **Mounting with stainless steel**
- **DT connector, for a secure connection**
- **Operating voltage from 9 to 32 volts**
- **Efficient energy consumption**
- **Water and dustproof to IP68 / IP69K**
- **High vibration resistance of 21 Grms**
- **Compact dimensions, high performance**
- **Powerful LED technology**
- **EMC and ECE certification**

TECHNICAL DATA	
Operating voltage	12 / 24 VDC (9 … 32 VDC)
Power consumption	15 W
Current consumption	12V: 1,25 A
Luminous flux	797 lm effektiv
Number of LEDs	3
Impact and shock resistance	21 Grms
Dimensions (w x h x d)	119 x 72 x 51 mm
Weight	0,20 kg
Ambient temperature	-40 °C … +80 °C
Protection class	IP 68, IP69K
Approvals	CISPR 25 Class 3, ECE R23, ADR

ARTICLE NUMBER	DESCRIPTION
RTW0503M	VX VL SERIES COMPACT 3 3 LED

NORDIC LIGHTS

30 1

Headlight Mirage

The MIRAGE is our first-ever LED light bar for on- and off-road vehicles, combining heavy-duty standards with an automotive look.

This clean auxiliary light ticks all the boxes for durability and design, with smooth edges all round to prevent ice and dirt build-up and a hard-coated polycarbonate lens for excellent impact resistance.
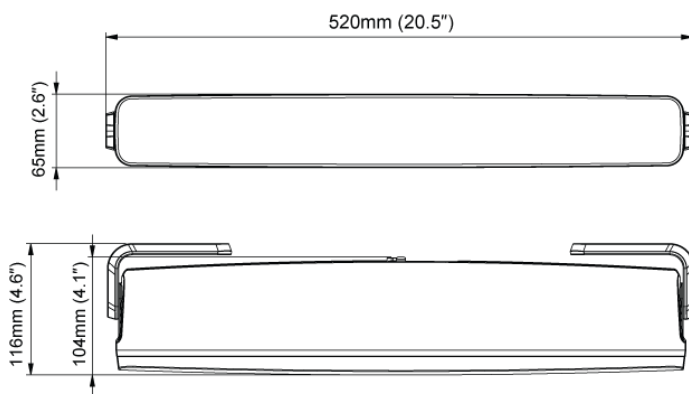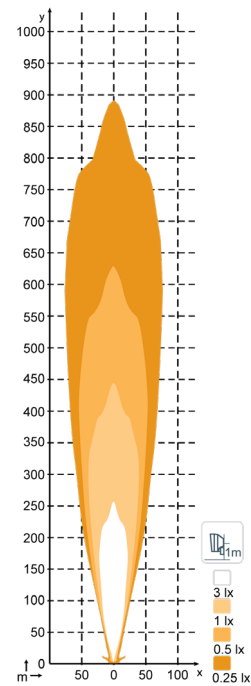
The light cone is designed to be wider than average for the best possible view. Even light distribution in combination with the warm colour temperature of 4500 K gives you a clear advantage – flicker - and streak-free illumination in visually demanding conditions such as rain, dust, fog or snow.

The MIRAGE can be mounted upright or upside down - simply flip it over to suit your application.

The Mirage comes with a breathtaking 6200 lm and when push comes to shove, a 7100 lm boost function for off-road traffic.

Mirage, 6200lm Standard

TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 ... 32 VDC)
power consumption	84 W (Boost: 118 W)
current consumption	12V: 7 A (Boost: 9,8 A) 24V: 3,3 A (Boost: 4,4 A)
luminous flux	6200 lm (Boost: 7100 lm)
colour temperature	4500 K
impact and. shock resistance	60 G
weight	2,8 kg
ambient temperature	-40 °C ... +85 °C (full power at -40°C ... +50°C)
protection class	IP 68, IP6K9K
salt spray	ISO 9227 240H
approvals	EMV: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2 ECE R112 R10 (Boost only for Off-Road)

520mm (20.5")
65mm (2.6")
116mm (4.6")
104mm (4.1")

ARTICLE NUMBER	DESCRIPTION
N997-100B	CANIS 2001 - Wide Flood

Headlight SCORPIUS Go 410/420

The Scorpius GO, small, black, bright, impresses with its above-average light output and particularly compact design.

Due to its high quality and the light aluminum housing, the headlight is part of the original equipment of the leading body builders.

The Scorpius GO Reverse is approved as a reversing light according to ECE-R23.
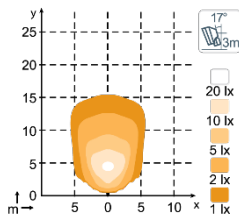
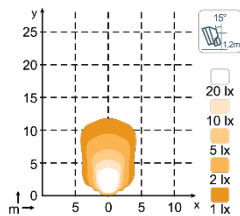The headlight can be used in the areas of fire brigade, municipal vehicle and special vehicle construction.

Scorpius GO 410

Scorpius GO 420
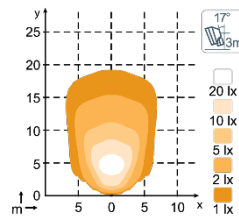Scorpius GO 410 Reverse

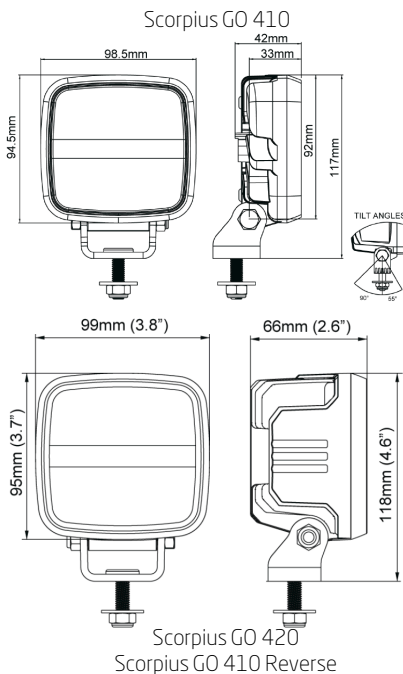**Scorpius Go 410 1000lm**
Flood
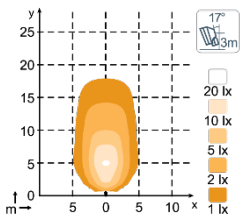
Scorpius Go 410 1000lm
Wide Flood

Scorpius Go 410 R 1000lm
Reverse

Scorpius Go 420 1800lm
Wide Flood

Scorpius Go 420 1800lm
Flood

Scorpius GO 410

Scorpius GO 420
Scorpius GO 410 Reverse

ARTICLE NUMBER	DESCRIPTION
N988-202B	
N988-201B	GyroLED M130, blue, magnetic, double flash
N988-503B	
N988-203B	
N988-204B	SL209 6LED Curved Scene Lamp, black
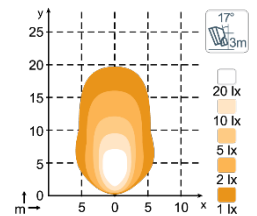
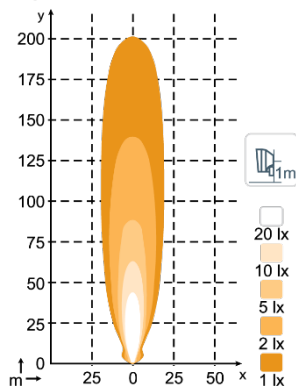| TECHNICAL DATA	Scorpius GO 410 Scorpius GO 410 Reverse	Scorpius GO 420
operating voltage	12 / 24 resp. 36 / 48 VDC (9 ...16 / 18 ... 32 V) resp. (30 ... 64 V)	12 / 24 VDC (9 ...16 / 18 ... 32 V)
power consumption	16 / 18 W	28 W
current consumption	12V: 1.05 A 24V: 0.60 A 36/48V: 0.38 A	12V: 1.8 A 24V: 1.0 A
luminous flux	1000 lm	1800 lm
colour temperature	5000 K	5000 K
impact and shock resistance	60 G	60 G
vibration resistance	8 grms ; 24-2000 Hz	8 grms ; 24-2000 Hz
mounting	single screw M8	single screw M8
weight	0.5 kg	0.6 kg
ambient temperature	-40 °C ... +85 °C	-40 °C ... +85 °C
protection class	IP 68, IP6K9K	IP 68, IP6K9K
salt spray	ISO 9227 240H	ISO 9227 240H
approvals	EMC: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2 EN 12895, ECE-R23	EMC: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2 EN 12895

Headlight SCORPIUS PRO 445

The Scorpius PRO 445 is the latest addition to our product range. This is the next generation of Scorpius work lights with an improved design, the latest LED technology and improved color rendering.

The LED work light impresses with its above-average light effectiveness. The Scorpius PRO 445 offers good mechanical properties, is light in weight and has a new lens material with excellent heat tolerance.
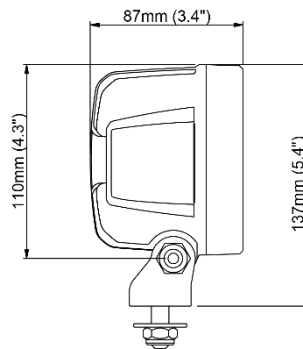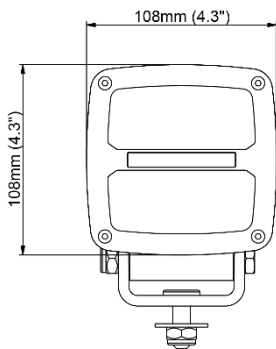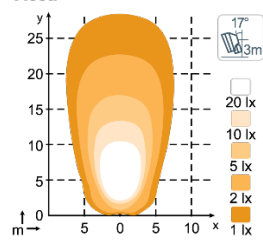
The Scorpius PRO 445 has an excellent, asymmetrical "wide flood" light pattern. It can be used universally in the areas of fire brigade, municipal vehicles and special vehicle construction.

SCORPIUS PRO 445, 4400lm
High beam

Scorpius PRO 445, 4400lm
Flood

108mm (4.3")

108mm (4.3")

87mm (3.4")

110mm (4.3")

137mm (5.4")

TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 ... 32 VDC)
power consumption	50 W
current consumption	12V: 4.2 A 24V: 2.1 A
luminous flux	4400 lm
colour temperature	5000 K
impact and shock resistance	60 G
vibration resistance	15.3 grms ; 24-2000 Hz
mounting	single screw M10
weight	1.1 kg
ambient temperature	-40 °C ... +85 °C
protection class	IP 68, IP6K9K, SAE J1455
salt spray	ISO 9227 240H
approvals	EMC: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2

ARTICLE NUMBER	DESCRIPTION
N984-701B	VEGA FX mini, blue, magnetic, LS (DIN)
N984-702B	VEGA FX mini, blue, screw on, LS (DIN)
N984-703B	VEGA FX mini, blue, screw on, LS (DIN)
N984-704B	VEGA FX mini, blue, screw on, LS (DIN)

Headlight PICTOR N7301

The Pictor N7301 is a particularly highly effective work light for a precise light image.
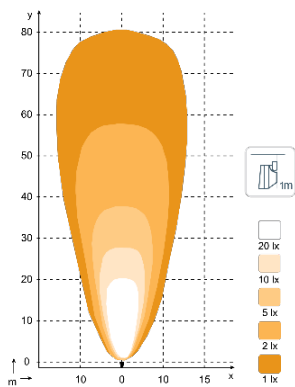
It is designed for equipping device booms and vehicle bodies in order to optimize the lighting in a specific area.

The design of the Pictor, its compact construction and its new aluminum housing make it a long-lasting work light.
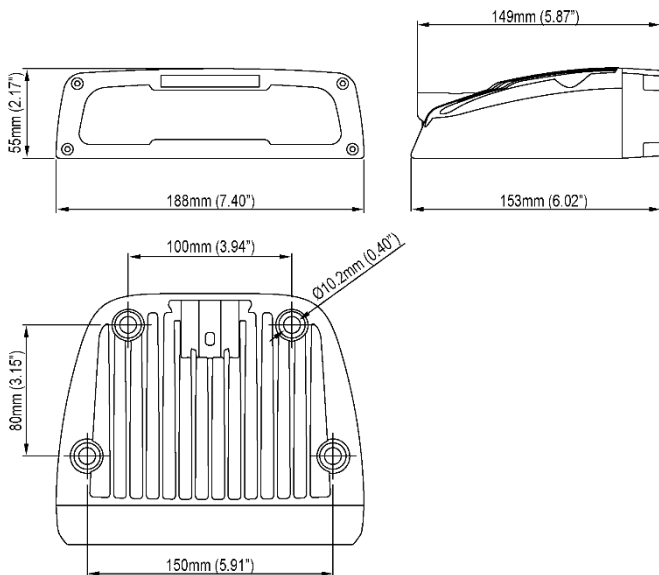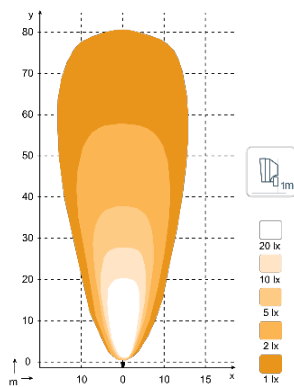
It can be used universally in the areas of fire brigade, municipal vehicles and special vehicle construction.

N7301 2600lm Flood TD US

N7301 2600lm Flood TT DS

TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 … 32 VDC)
power consumption	32 W
current consumption	12V: 2.7 A 24V: 1.3 A
luminous flux	2600 lm
colour temperature	5700 K
impact and shock resistance	60 G
vibration resistance	15.3 grms ; 24-2000 Hz
mounting	single screw M8
weight	1.6 kg
ambient temperature	-40 °C … +85 °C
protection class	IP 68, IP6K9K, SAE J1455
salt spray	ISO 9227 240H
approvals	EMC: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2

ARTICLE NUMBER	DESCRIPTION
N987-101B	
N987-102B	Edge Dagger Adjustable Shield

Headlight PICTOR 620

With the Pictor 620 you are guaranteed to hit the mark.

This LED work light was developed for mounting on vehicle bodies in order to optimally and specifically illuminate your work area.

The Pictor 620 is light, small and impresses with its particularly highly effective light output.
The mechanical and thermal resistance of the Pictor 620 is excellent thanks to the newly reinforced aluminum housing.

There are two versions available. The first version with an optimized light pattern for mounting below the vehicle body, the second version for mounting above the vehicle body.
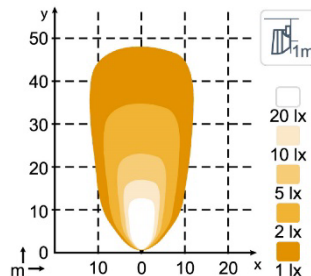
The Pictor 620 can be used universally in the areas of fire brigade, municipal vehicles and special vehicle construction.
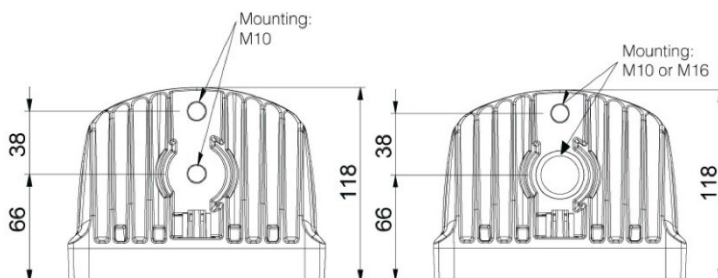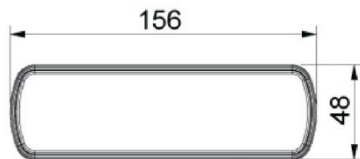
Pictor 620, 1800lm Flood TT DS
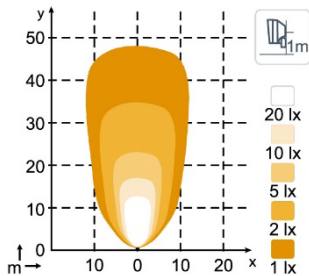
Pictor 620, 1800lm Flood TD US

TT DS (Top Top)
Lightpattern: Downside

TD US (Top Down)
Lightpattern: Upside

TECHNICAL DATA	
operating voltage	12 / 24 VDC (9 ...16 / 18 ... 32 V)
power consumption	28 W
current consumption	12V: 2.0 A 24V: 1.0 A
luminous flux	1800 lm
colour temperature	5000 K
impact and shock resistance	60 G
vibration resistance	15.3 grms ; 24-2000 Hz
mounting	M16 or M10
weight	0.7 kg
ambient temperature	-40 °C ... +85 °C
protection class	IP 68, IP6K9K
salt spray	ISO 9227 240H
approvals	EMC: CISPR 25 Class 5, ISO 13766 ISO 14982, ISO 7637-2 ISO 13309, ISO 11452-2 EN 61000-4-2, EN 12985

Mounting: M10

Mounting: M10 or M16

| ARTICLE NUMBER	DESCRIPTION
N987-204B	Edge Dagger LED Module (ED6) – Smoked Lens, b
N987-205B	Edge Dagger LED Module (ED6) – Clear Lens, red

Headlight 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 features:

- **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**
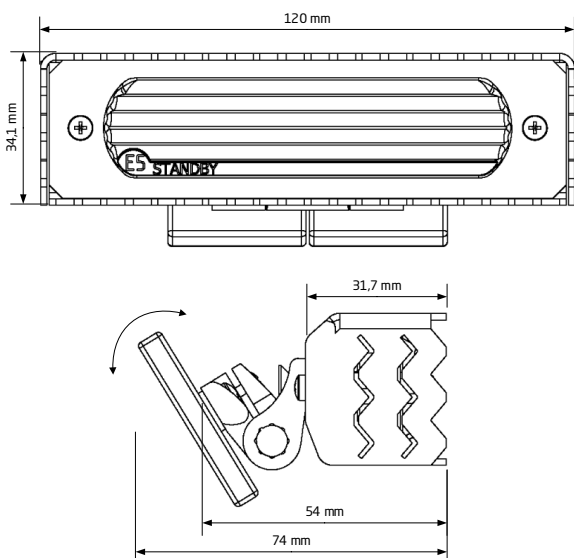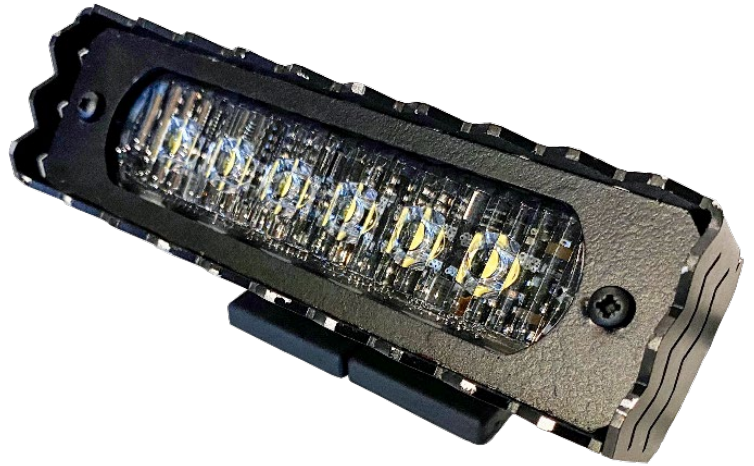
TECHNICAL DATA	
operating voltage	12 / 24 VDC (10 … 30 VDC)
current consumption	at 12V: 1.0 A at 24V: 0.5 A
LED-colour	white
lens colour	clear
amount of LEDs	6
cable	2 m, with cigarette lightning plug
mounting	surface mount, magnetic version
dimensions	max. 120 x 34.1 x 74 mm
protection class	IP 65
ambient temperature - storage / transport - in operation	 -40℃ … +85℃ -25℃ … +70℃
weight - with cable - without cable	 390 g 190 g
approval	EMC: E5-05235

ARTICLE NUMBER	DESCRIPTION
50138490100	Brackets for F-25S Vito, red, DS

Ambient Light SL209

It is extremely important to optimally illuminate the area around the vehicle when visibility is poor.
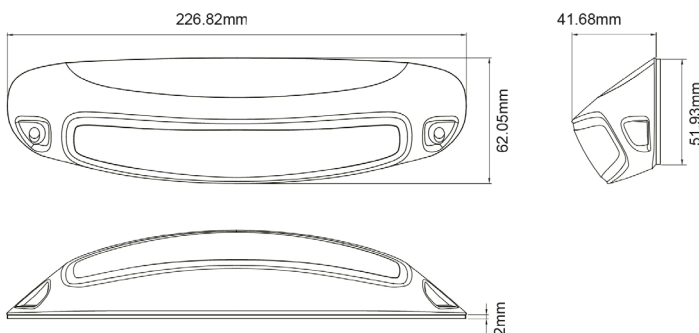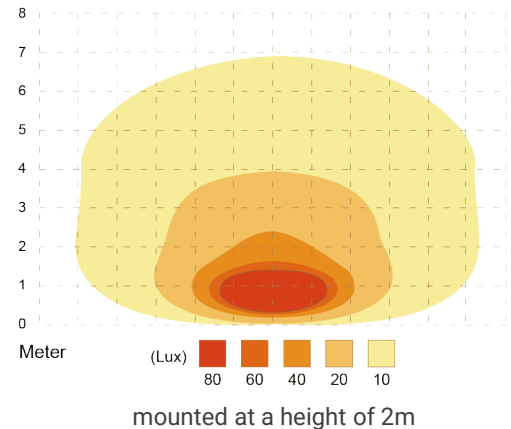Thanks to its high luminosity, the SL209 ambient light provides the required increased safety.

Attachment or retrofitting is extremely easy as the light is attached using 2 screws and only requires one additional hole for the cable bushing. Elaborate cut-outs are therefore unnecessary, which greatly simplifies assembly.

Product features:

➢ **Curved design to maximize coverage with a streamlined aesthetic**

➢ **Over 1730 lumen output**

➢ **Luminous intensity ≧ 820 lux at 1 meter**

➢ **Certified to ECE R10 and CISPR 25 Class 3**

➢ **12 – 24 V operating voltage**

➢ **reverse polarity protection**

➢ **Available with black, white or red housing**

➢ **Die-cast aluminium base for efficient heat dissipation and high LED durability**

➢ **Weatherproof and anti-vibration design for external use**

Light distribution

mounted at a height of 2m

TECHNICAL DATA	
operating voltage	12 / 24 VDC
power consumption	13,44 W
current comsumption	12V: 1,12 A 24V: 0,56 A
luminous flux	1730 lm (max.) 1460 lm (effective)
characteristics	flood-light
LEDs	6 high power-LEDs
LED colour	white
lens colour	clear
weight	410 g
cable	2x 0,5 mm² (RD – BK)
ambient temperature storing / transport operation	-40 ℃ ... +75 ℃ -40 ℃ ... +60 ℃
protection class	IPX7
approvals	CISPR 25 Class 3 ECE R10

226.82mm

41.68mm

62.05mm

51.93mm

2mm

ARTICLE NUMBER	DESCRIPTION
JW0130103W000	
JW0130113W000	
JW0130123W000	GyroLED M80, blue, magnetic, CLP

Ambient Light F-25S

The F-25S light is a state-of-the-art LED perimeter light that has been specially developed for mounting on the side and/or rear of the vehicle to illuminate the surrounding area extensively and evenly.

Thanks to LED technology with a total of 24 LEDs, the F-25S offers outstanding brightness with a luminous flux of 1000 lm. This luminaire not only achieves high luminosity, but is also extremely energy-efficient, with an energy efficiency class of A++. In addition, it is designed for operation with 12/24 V and therefore adapts to different power sources.

The aluminum housing not only ensures longevity, but also a robust construction that can withstand the demands of the terrain. With its IP67 protection class, the F-25S luminaire is also optimally protected against dust and water.

This light is an ideal solution for illuminating a vehicle's surroundings over a large area and thus improving safety and visibility in different environments.

Product features:
● **LED technology with 24 LEDs**
● **1000 lm luminous flux**
● **Energy efficiency A++**
● **12/24 V capable**
● **Aluminum housing**
● **Protection class IP67**

Scope of delivery

66 mm / 2.60 in

342 mm / 13.47 in

35 mm / 1.34 in

Mounting angle
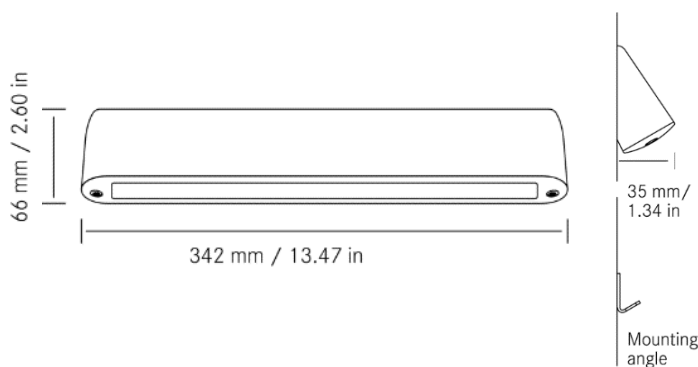
ARTICLE NUMBER	DESCRIPTION
50138490001	
50138490002	
50138490003	
50138490010	LED environment lightning F-25S, white
50138490011	LED environment lightning F-25S, red
50138490015	#NV
50138490013	Brackets for F-25S Vito ,red, DS, PS, REAR
50138490014	Brackets for F-25S Vito ,red, REAR
50138490019	#NV
50138490018	#NV
50138490012	
50138490016	#NV
50138490017	#NV

TECHNICAL DATA	
operating voltage	12/24 VDC (10 ... 30 VDC)
power consumption	17 W
light colour	cool white
luminous flux	1000 lm
protection class	IP 67
dimensions l x h	342 x 66 mm
weight	approx. 660 g

Ambient Light L98

The L98 batten luminaire is a slim and robust ambient lighting system specially designed for versatile applications. With its simple mounting system and outstanding price-performance ratio, it offers an optimum solution for various lighting requirements.

Its rectangular aluminum profile allows flexible use in different areas of your vehicle. Whether in the equipment compartment, as an under-cabinet light or for interior lighting - the L98 provides light exactly where it is needed.

Thanks to its versatility and ability to work with 12 / 24 V, it adapts to different vehicles and is available in the sizes 295, 547 and 1051 mm. The robust aluminum housing ensures durability and reliability, even under demanding conditions.

The light bar offers variable mounting options, which means that it can be easily and adaptably installed as required. These features make the L98 an ideal solution for providing effective and reliable light in various vehicle areas.

Product features:
- **12 / 24 V capable**
- **In 295, 547 and 1051 mm**
- **Robust aluminum housing**
- **Variable mounting options**

1051 mm

547 mm

295 mm

TECHNICAL DATA	
operating voltage	12 / 24 VDC (10 ... 30 VDC)

current consumption	295 mm
	    at 12V: 250 mA
	    at 24V: 140 mA
	547 mm
	    at 12V: 480 mA
	    at 24V: 270 mA
	1051 mm
	    at 12V: 990 mA
	    at 24V: 535 mA

power consumption	295 mm: 3 W 547 mm: 6 W 1051 mm: 12 W
luminous flux	295 mm: 282 lm 547 mm: 564 lm 1051 mm: 1128 lm
light colour	4500-5600 K
amount of LEDs	12 at 295 mm 24 at 547 mm 48 at 1051 mm
LED-colour	white
protection class	IP 67
dimensions	295 x 22.4 x 17.3 mm 547 x 22.4 x 17.3 mm 1051 x 22.4 x 17.3 mm
ambient temperature	-30°C ... +60°C
approval	EMC acc. ECE R10

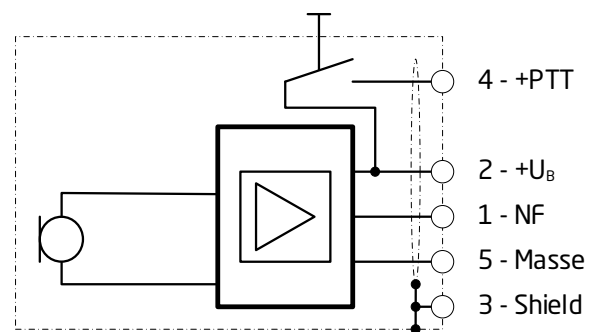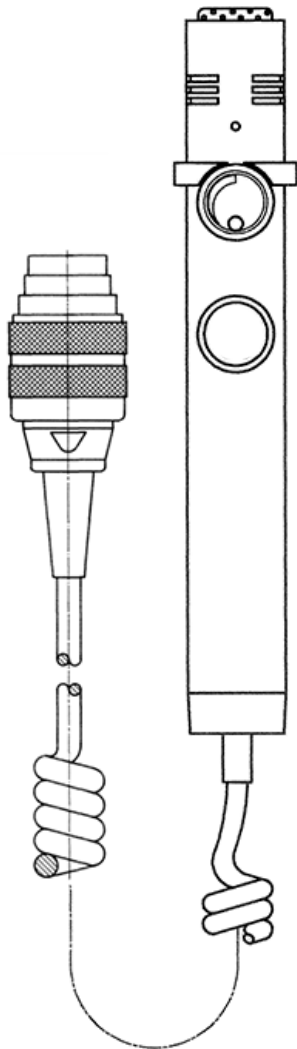| ARTICLE NUMBER	DESCRIPTION
S49877001	
S49877002	
S49877003	

STANDBY®

When attention matters.

Accessories

Microphone MIK450A

The active rod microphone MIK 450A is used to make voice announcements via the special signal system. It can be connected directly to a control device or to an operating device using an appropriate connection cable.

The microphone is noise-compensated, has a super cardioid pickup pattern and a large transmission range. This combination guarantees high voice quality.

Thanks to the universal clip holder, the microphone can be attached anywhere in the vehicle and is always at hand when it is needed.

4 - +PTT

2 - +U_B

1 - NF

5 - Masse

3 - Shield

TECHNICAL DATA	
transmission range	20 ... 12,000 Hz
characteristics	supercardioid
AF-level	450 mV
dimensions	Ø 29 x 170 mm
cable	250 ... 2,300 mm coiled cable
weight	approx. 235 g

ARTICLE NUMBER	DESCRIPTION
64991001705	
08138525006	

Microphone TM110RS

The proven TM110 RS (MIK-103) stick microphone is used to make voice announcements via the special signal system. It can be connected directly to a control device or to an operating device using an appropriate connection cable.

The microphone is noise-compensated, has a cardioid pickup pattern and a large transmission range. This combination guarantees high voice quality.

Thanks to the universal clip holder, the microphone can be attached anywhere in the vehicle and is always at hand when it is needed.

| 2 - GN |
| 4 - YE |
| 1 - WH |
| 5 - BN |
| 3 - Shield |

200 Ω

TECHNICAL DATA	
transmission range	20 ... 12,000 Hz
characteristics	cardioid
AF-level	4 mV
impedance	200 Ω
dimensions	Ø 29 x 170 mm
cable	250 ... 2,300 mm coiled cable
weight	approx. 235 g
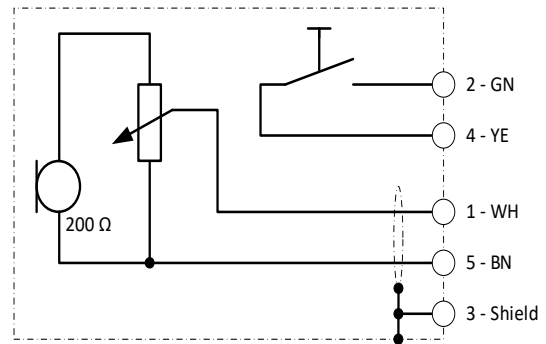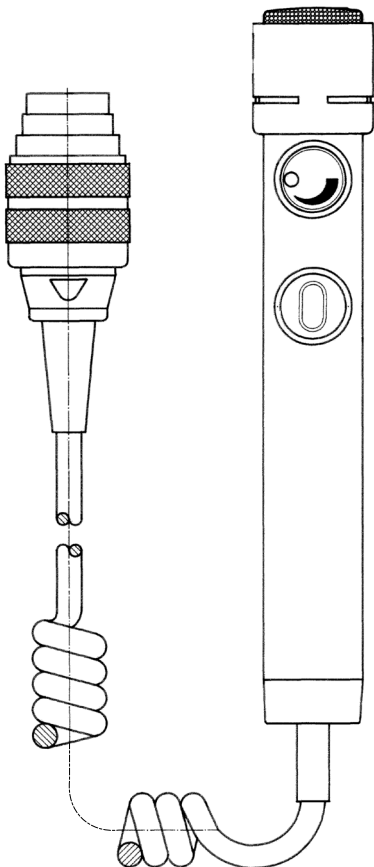
ARTICLE NUMBER	DESCRIPTION
64991001895	
09088400102	
08138525006	

OELSPUR

Multi-Signal-Display MSG

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).

Product features:

- **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**

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
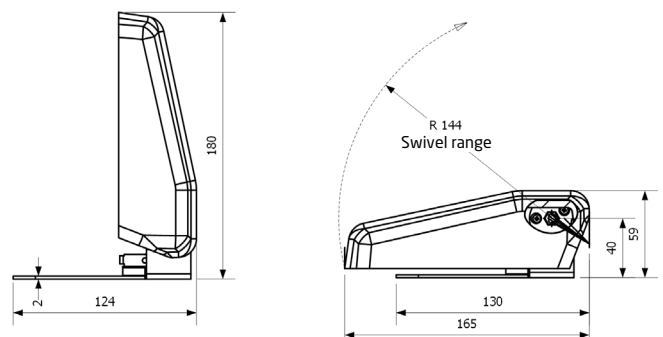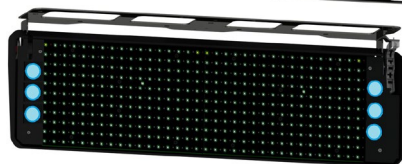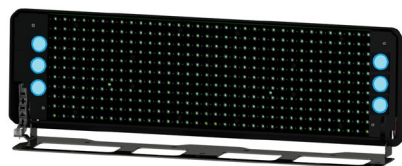
Multi-Signal-Display MSG

MSG 2x1H FlipUp

MSG 2x1H FlipDown

MSG 2x1H FlipUp

MSG 2x1H FlipDown

with additional blue rear flash modules

Product videos

SCAN ME

SCAN ME

TECHNICAL DATA	
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 … +85°C
approvals	EMC: E1 10R 059129

Multi-Signal-Display MSG

MSG in IP-housing!

Immerse yourself in the future of emergency vehicle equipment with our multi-signal display full matrix display - your reliable companion in critical situations. Developed for police, fire and rescue services, this state-of-the-art system is an indispensable tool for efficient and safe operational coordination.

Versatile configuration:
The outstanding feature of this multi-signal encoder is its impressive flexibility. The display units can be easily cascaded both vertically and horizontally to ensure optimum visibility. This allows for customization to meet the specific requirements of your vehicle fleet.

Reliable signaling:
The 2-color LED display - red for alarm signaling (ASG) and yellow for information signaling (ISG) - ensures clear and unambiguous communication in any situation. This not only meets the highest safety standards, but also fulfills the requirements of the patrol car directive with regard to font height and beam angle.

Simple integration:
Integrating this full matrix display into your vehicle system is child's play and operation is intuitive. It fits seamlessly into your existing equipment and thus optimizes your operational readiness.

Experience a new dimension in emergency vehicle equipment with our full-matrix multi-signal display - precise, flexible and reliable. Invest in the safety of your emergency services and be accompanied by innovative technology.
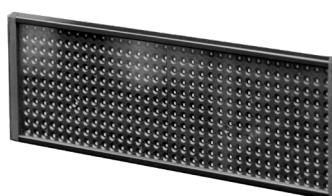
Product features:

- **Active LED area 210 x 130 mm per segment**
- **Segments can be combined horizontally and vertically, allowing different display sizes to be realized**
- **12 / 24 V capable**
- **Quiescent current: < 1 mA**
- **Luminosity: 30,000 cd**
- **Full-matrix display for texts, symbols, arrows and logos as changing texts and scroll texts**
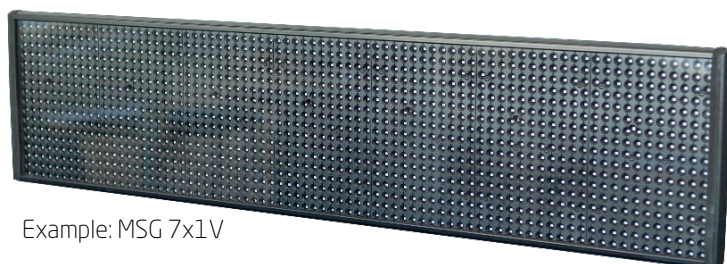
Example: MSG 7x1V

Example: MSG 3x1H

Example: MSG 2x1H

Example: MSG 2x1V

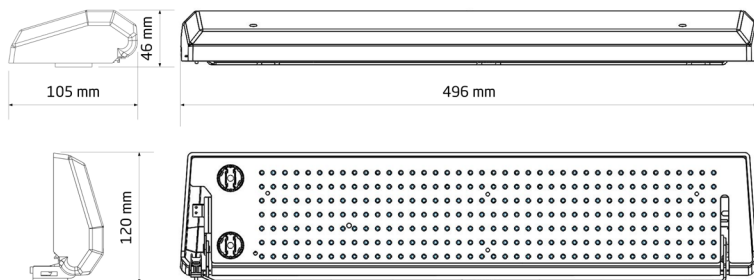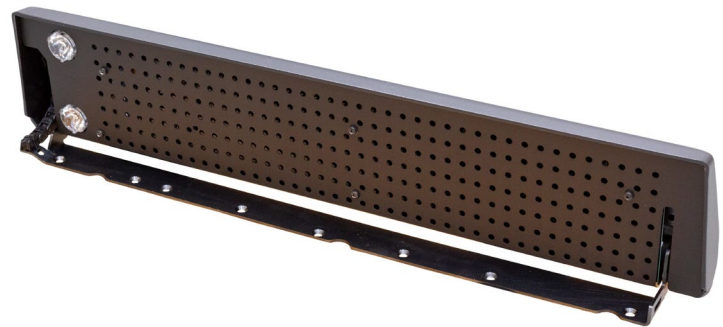| TECHNICAL DATA	
Operating voltage	12/24 VDC (9 ... 32 VDC)
Power consumption	at 13.8V: max. 2 A per segment Quiescent current < 1 mA
Luminous intensiy	30.000 cd
Beam angle	red: 8° according to directive amber: without restriction
LED distance	approx. 10 mm
LED colour	red / amber
Cascadable segments	theoretically unlimited horizontal and vertical
Dimensions - segment	210 x 130 mm
Protection class	IP65
Ambient temperature	-40°C ... +85°C
Approvals	EMV: E1 10R 059129

Dashboard-Display DD-100

The dashboard display DD-xxx was developed for vehicles in which a light bar with an integrated display would exceed the maximum vehicle height.

It is mounted discreetly on the dashboard and pops up when switched on. After switching off, it closes again automatically so as not to obstruct the view to the front.

Product features:

- **Flat LED display**
- **400 mm full matrix display**
- **Control via CAN bus**
- **Several individual texts can be preconfigured**
- **With and without "Flasher Red" for the stopping process**

TECHNICAL DATA	
nominal voltage	12 VDC
operating voltage	10.8 ... 14.4 VDC
current consumption	0 A (< 1 mA in bus-operation mode) 1 A max.
ambient temperature - in operation - storage / transport	-25 °C ... +70 °C -40 °C ... +80 °C
LED-colour	red
weight	approx. 1.3 kg
dimensions (w x h x d) - shut down - open	496 x 46 x 105 mm 496 x 120 x 105 mm
approval	EMC acc. ECE R10

Airport
SECURITY

Lightbar W3 AERO

Our W3 AERO lightbar is specially designed for use at airports and offers all the outstanding features of the tried-and-tested W3 lightbar. With its robust construction and versatile functions, the W3 AERO is the ideal solution for airport operators who need to guarantee the highest safety standards.

EASA Type C and D conformity:
The W3 AERO meets all requirements of the European Aviation Safety Agency (EASA) Type C and D standards to ensure reliable and safe use at airports. It is manufactured according to customer requirements, depending on the planned use and equipment specifications.

Amber warning lights:
Clear amber warning lights provide clear visibility and identify potential danger areas.

Red flashers to the front and rear:
Eye-catching red flashers at the front and rear of the light bar increase visibility and contribute to flight safety.

Brake and position light:
Integrated brake and position lights improve night visibility and support the precise positioning of aircraft.

Forward, rear and side headlights:
Powerful headlights provide excellent illumination to the front, rear and sides to ensure optimum visibility in all operating situations.

Rear warning system:
An effective rear warning system warns of potential obstacles or hazardous situations and contributes to airport safety.

Our Lightbar W3 AERO not only offers outstanding performance and reliability, but also meets the stringent requirements of the aviation industry to ensure smooth and safe operations at airports.

Lightbar Z2 AERO

The Lightbar Z2 AERO is the ultimate solution for use at airports and inherits all the outstanding features of the proven Lightbar Z2. Developed to meet the highest standards, this product fulfills all EASA Type C and D requirements, setting a new benchmark in airport lighting and safety. Customer-specific production means that it can be individually adapted to the requirements specifications and the place of use.

Amber warning lights:
Clear warning signals for approaching aircraft and ground vehicles.

Red flashers to the front and rear:
Clear visibility from all directions for maximum safety.

Brake and position light:
Improved ground marking and signal clarity.

Headlight to the front, rear and side:
Optimum illumination of the work area and surroundings.

Rear warning system:
To draw attention to hazardous situations.

Full-matrix LED display to the front and rear:
Flexible text display for important information. Text display with yellow or red LEDs (also combined) possible.

The Lightbar Z2 AERO guarantees efficient and safe control of airport traffic. With its robust design and ability to display clear text information in different colors, it is a reliable choice for use in demanding environments.

Multi-Signal-Display / Warning lights for Airports

LED full matrix display MSG (multi-signal-display)!

Now messages can be taken to the next level and presented with a state-of-the-art, individually configurable display.

Our full matrix displays are perfect for any application, be it fixed mounting or flip-up / flip-down. With the flexibility to display text in red or yellow, depending on requirements, you can ensure that messages always arrive exactly as they should.

The size of the display is almost infinitely customizable, so the perfect fit for the location can be found.

Experience the freedom of individual design and the performance of our LED technology - with the MSG LED full matrix display.

GyroLED M80, M130 and GyroLED class 1

With their outstanding quality and reliability, they are the ideal choice for ensuring safety in the airport area.

EASA Type C conformity:
The GyroLED Class 1, GyroLED M80 and GyroLED M130 fully comply with EASA Type C requirements, ensuring the highest standards of quality and safety.

Versatile application options:
These warning lights offer various mounting options to meet the different requirements and conditions at the airport. Whether for runways, taxiways or other areas - the GyroLED series can be used flexibly.

Outstanding visibility:
The GyroLED warning lights ensure excellent visibility, both during the day and at night. This is particularly important for alerting pilots and ground personnel to potential hazards.

Durable and low maintenance:
The materials used and the first-class workmanship ensure a long service life and minimize maintenance requirements. This guarantees continuous operation of the beacon.

Simple installation:
The different surface-mounted variants enable simple and efficient installation of the GyroLED warning lights. They can be positioned quickly and easily at the required locations.

The Standby Group

Standby Oy

Standby AB

Standby UK Limited

Standby GmbH
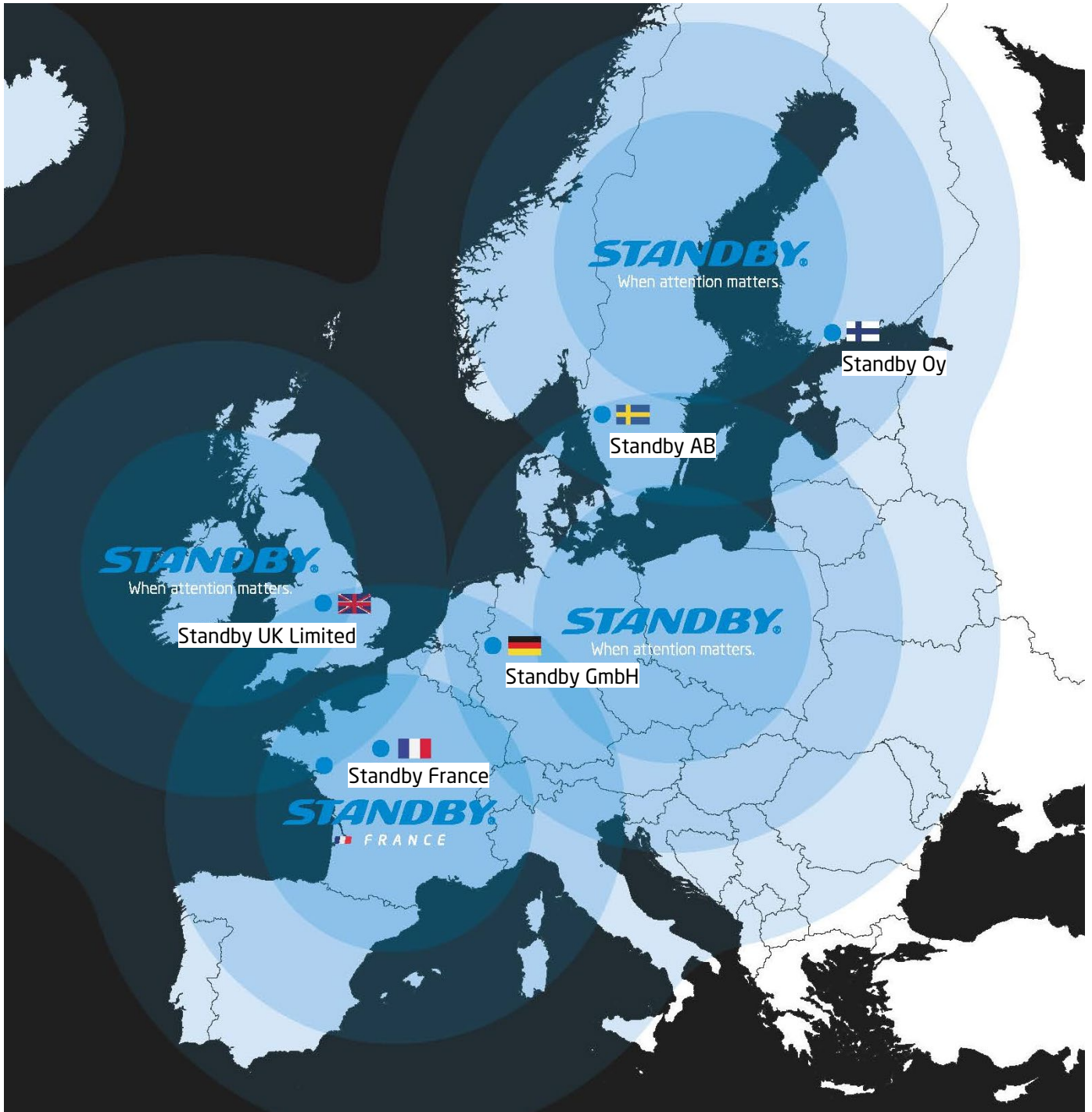
Standby France

Standby GmbH
in Dinslaken, Germany

Standby AB
in Trollhättan, Sweden

Standby Mercura
in Blois u. Nantes, France

Standby RSG UK Limited
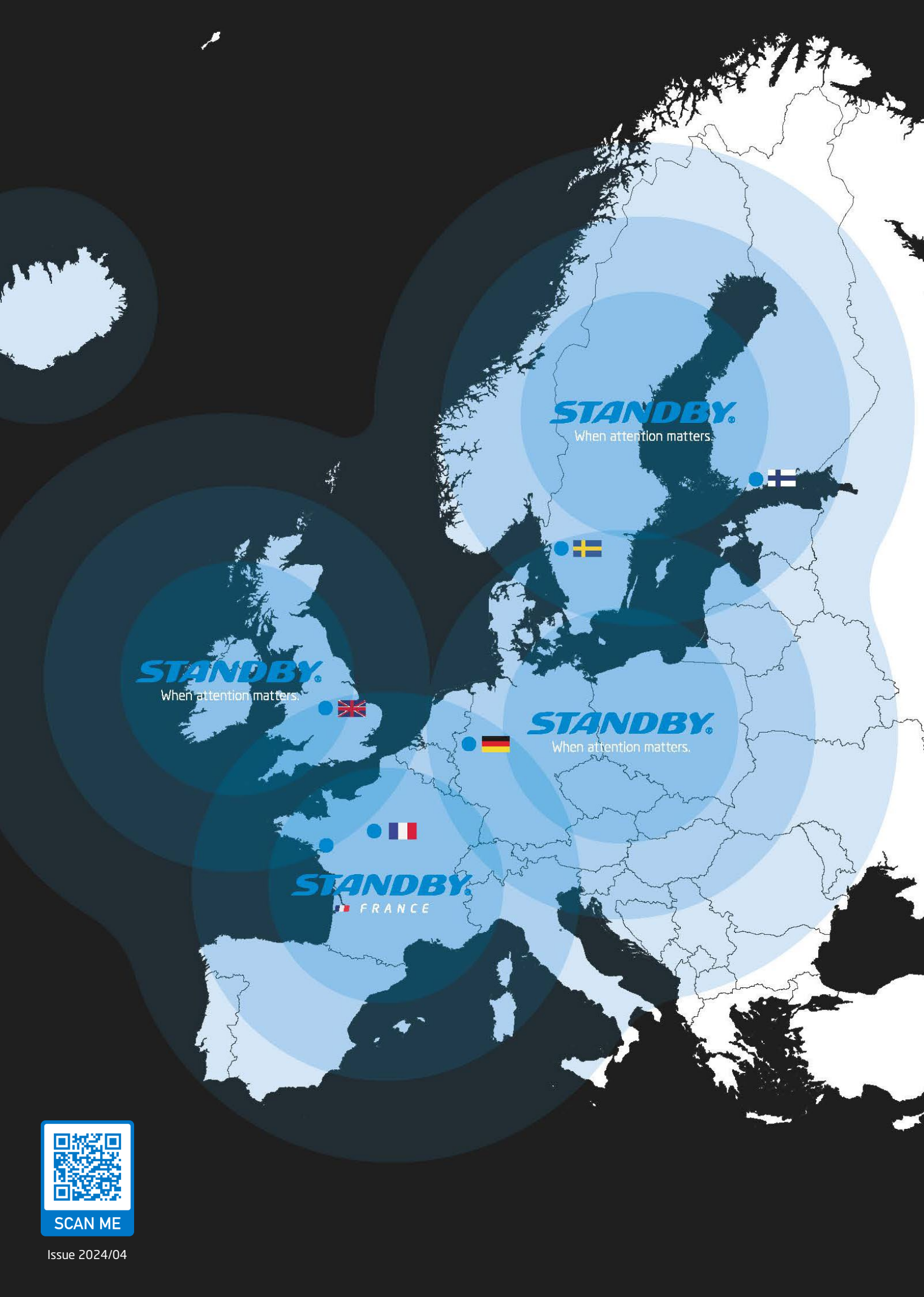in Cannock, UK

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Issue 2024/04