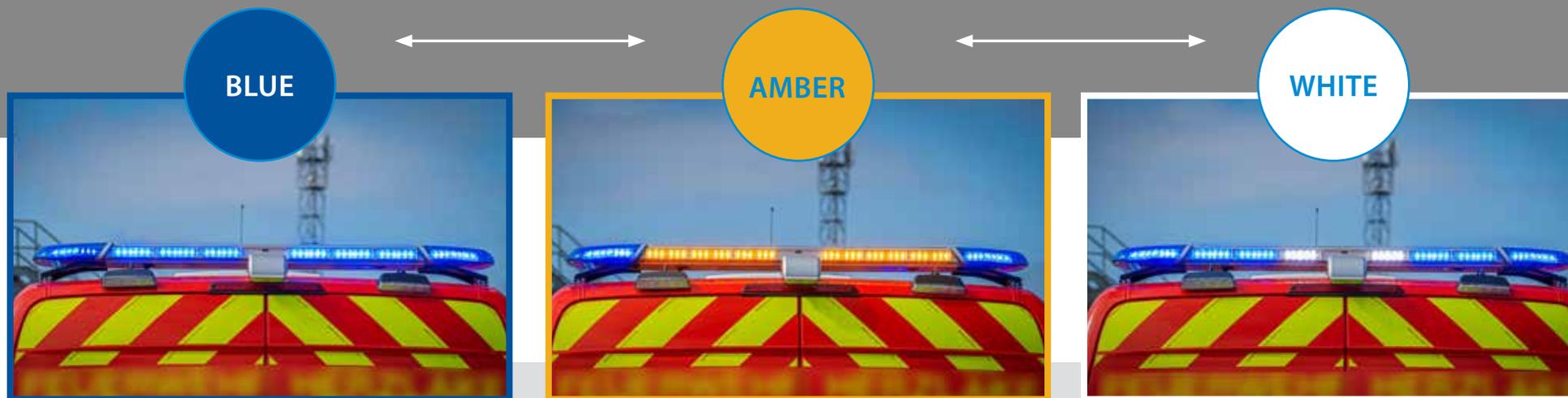


Multi-colour middle modules (switchable) DBS 5000

3 IN 1

OUR MULTI-COLOUR MIDDLE MODULES IN THE DBS 5000 ARE SWITCHABLE!



Emergency drive with maximum blue light

Securing to the rear with
a rear warning system

Working lights for illuminating
the site of operation

Winner of the *reddot design award*, the DBS 5000 warning system combines modern design, a versatile range of functions and powerful LED lighting technology. The optimum warning effect attracts the attention of road users and ensures additional safety when in operation. The low-profile design not only ensures low air resistance and reduced noise, but also makes it possible to access destinations where clearance height is an issue.



reddot award 2017
winner

Customisable

- fitted using a modular system
- easily adaptable to individual needs

Aerodynamic housing

- low wind resistance and reduced noise levels
- low-profile design

Variety of mounting options

- fast and easy mounting options for flat or curved vehicle roofs
- vehicle-specific carrier systems offer additional mounting options

Maximum warning effect

- state-of-the-art lighting technology
- automatic day/night switching

Easy operation

- digital control via CAN447 or FireCAN
- converters for analogue control available

Variety of lengths

- lengths: 700, 1100, 1200, 1400, 1600 or 1800 mm

Multi-colour middle modules

- switchable between blue, amber and white

DBS 5000



RANGE OF FUNCTIONS AVAILABLE

- infrared LED (helicopter recognition)
- LED command vehicle light (red or green)
- direction indicator (turning light)* front, rear, front & rear
- day/night switching (automatic)
- undercarriage loudspeaker to support public address
- alley lights: 0° or 20° tilt
- working light
- additional flashers
- rear warning system
- power flash
- red takedown flash
- traffic advisor (special approval required)
- convoy function (control required)
- integration of compressor horns possible
- also available with clear lamp domes

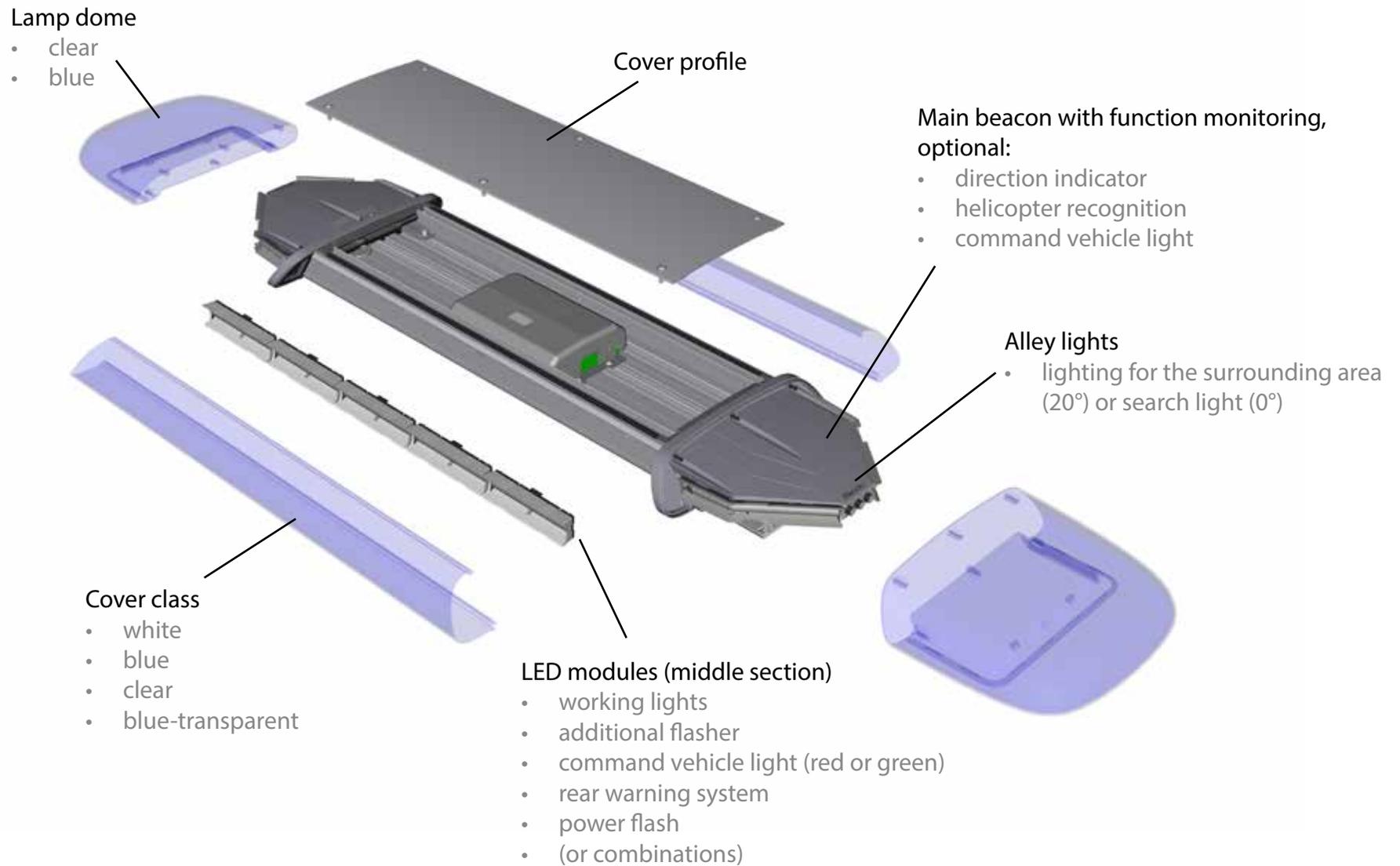
} combination possible

*CiA447 requires an I/O-Box to feed in the signals

Also available with examination in accordance with ICAO type C.

Technical data:

Designation:	DBS 5000
Voltage:	12 V / 24 V
Flash frequency:	> 2 Hz (beacon)
Average power consumption:	from 4 A (at 12 V)
Lengths:	700, 1100, 1200, 1400, 1600, 1800 mm
Depth	285 mm
Height:	63 mm
Weight:	from 5.1 kg
Material:	lamp dome: PC / cover glass: PMMA / housing: aluminium
Type of protection:	IP5K4K / IPX9K
Homologation: (Germany and international)	
Light according to ECE-R 65:	TB2 (E1) 00 4446 / TB2 (E1) 00 5238
EMC according to ECE-R 10:	(E1)10R-06 7981
Direction indicator: Light according to ECE-R 6:	01 1 (E1) 4453 (front) / 01 2a (E1) 4453 (rear)
Rear warning system: Light according to ECE-R 65:	XA1 (E1) 00 4471 / XA2 (E1) 00 5240
Power flash: light according to TA13a:	~ K 1427
Takedown flash according to TA13b:	~ K 1927



DBS 5000

Basic lightbar

Possible lengths

700, 1100, 1200, 1400, 1600, 1800 mm

Main beacon (HKL)

Function

Main beacon (blue)

- high-power LEDs with wide angle lenses
- class 2 homologation with automatic day/night switching
- integrated function monitoring
- flash pattern: strobe flash
- optional: signal light: command vehicle light green, fourfold on the main beacons (flashing)
- optional: helicopter recognition, fourfold, infrared rotating, for night vision devices
- optional: direction indicator, front and/or rear, in the main beacons*
- also available with clear lamp domes

Control module (KM)

Function

Digital control

- serial control by 2-wire cable for CiA447 control units (e.g.. BE 300, HBE 300)
- compatibility of other control units on request

FireCAN

- serial control for FireCAN control units

Analoque control

- converters for analoque control available
- analoque control via signal line
- for limited range of functions (compatibility on request)

Roof mounting

Function



Rubber mouldings

- for flat or curved vehicle roofs



Mounting brackets

- universal and various vehicle-specific models available

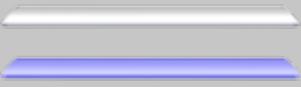
*CiA447 requires an I/O-Box to feed in the signals

Electrical connection	
Function	
Cable outlet	<ul style="list-style-type: none"> • cable outlet, passenger side: standard • cable outlet, driver side • separate cable outlet (power subbly and signal line are laid separately) • vehicle-specific electrical connections on request

Options

Acoustics		
Function		
Undercarriage loudspeaker	<ul style="list-style-type: none"> • undercarriage loudspeaker directed towards the rear and/or the front for public address • external amplifier and cable harness required 	<ul style="list-style-type: none"> • 12 V • 24 V
Martin compressor system	<ul style="list-style-type: none"> • external Martin compressor with 4 diaphragm acoustic horns, mounted on the lightbar 	<ul style="list-style-type: none"> • 12 V • 24 V

Alley lights (side lights)			
Function			
	Lighting for surrounding area	<ul style="list-style-type: none"> • colour: white • tilt angle: 20° • mounted in pairs (left and right) 	<ul style="list-style-type: none"> • 12 V • 24 V
	Search lights	<ul style="list-style-type: none"> • colour: white • without tilt angle • mounted in pairs (left and right) 	<ul style="list-style-type: none"> • 12 V • 24 V

Cover glass		
Description		
	Cover glass in full colour: <ul style="list-style-type: none"> • white (RAL 9010) • blue (RAL 5017) 	
	Cover glass, transparent: <ul style="list-style-type: none"> • clear • blue-transparent 	<ul style="list-style-type: none"> • clear or tinted transparent cover glass required when middle modules are mounted

DBS 5000

Middle modules switchable between blue, amber and white

Options - front mounting

Configuration example



Product	Product / Colour	Product				
HKL	ZB / blue	ZB / blue	PB / blue	ZB / blue	ZB / blue	HKL
	ASW / white	ASW / white		ASW / white	ASW / white	
	● ○	● ○	●	● ○	● ○	

HKL: main beacon
 ZB: additional flasher
 ASW: working lights
 PB: power flash

Function			
Additional flasher (pair) max. 3 pairs per length	<ul style="list-style-type: none"> 9 blue LEDs (uni colour module) or 6 blue LEDs (multi colour module) in the reflector housing directional synchronisation with respective main flasher reduced in night mode 	Power flash	<ul style="list-style-type: none"> a module consists of 9 blue LEDs in the reflector housing directional optimised for distance effect
Working lights (0°) (up to 4 pcs. per lightbar)	<ul style="list-style-type: none"> 9 white LEDs (uni colour module) or 6 white LEDs (multi colour module) in the reflector housing Selectable mounting position 1500 lumens 	Command vehicle light	<ul style="list-style-type: none"> a module consists of 9 blue LEDs in the reflector housing red or green marking of the command vehicle

Middle modules switchable between blue, amber and white

Options - rear mounting

Configuration example



Product	Product / Colour	Product				
HKL	ZB / blue	ZB / blue	ASW / white	ZB / blue	ZB / blue	HKL
	HWS / amber	HWS / amber		HWS / amber	HWS / amber	
		ASW / white		ASW / white		
	● ●	● ● ○	○	● ● ○	● ●	

HKL: main beacon
 ZB: additional flasher
 HWS: rear warning system
 ASW: working lights

Function			
Additional flasher (pair) max. 3 pairs per length	<ul style="list-style-type: none"> 9 blue LEDs (uni colour module) or 6 blue LEDs (multi colour module) in the reflector housing directional synchronisation with respective main flasher reduced in night mode 	Rear warning system (2, 4 or 6 modules possible)	<ul style="list-style-type: none"> one module consists of 9 amber (uni colour) or 6 switchable LEDs in the reflector housing directional available only in pairs (mounted left and right)
Working lights (0°) (up to 4 pcs. per lightbar)	<ul style="list-style-type: none"> 9 white LEDs (uni colour module) or 6 white LEDs (multi colour module) in the reflector housing Selectable mounting position 1500 lumens 	Traffic advisor (special approval required)	<ul style="list-style-type: none"> consists of 5 or 6 middle modules with 9 amber (uni colour) or 6 switchable LEDs per module directional flashing sequences possible including flash pattern for rear warning system

DBS 5000

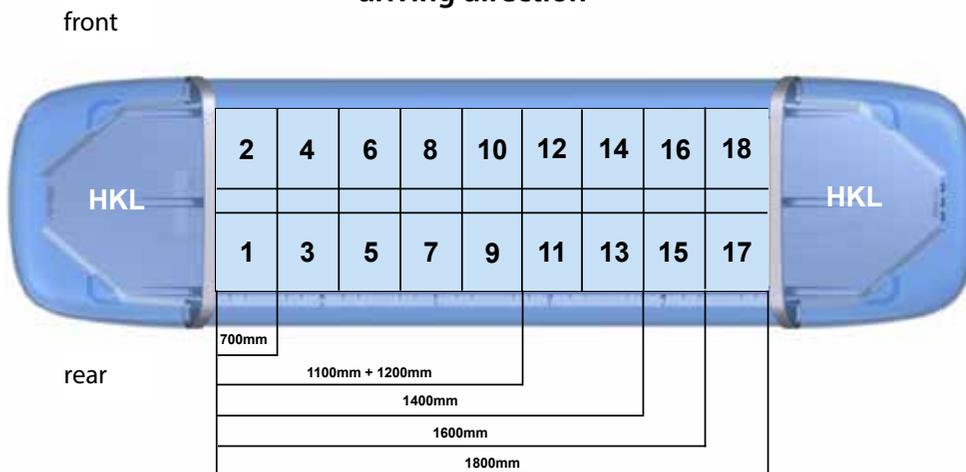
Special function

- | | |
|--------|---|
| Convoy | <ul style="list-style-type: none"> • „convoy front“ switches the rear part of the main beacon (HKL) and the rear additional flasher (ZB) off in order not to blind the following traffic • „convoy rear“ switches the front part of the main beacon (HKL) and the front additional flasher (ZB) off in order not to blind the traffic travelling ahead • the control unit has to support the “convoy” function |
|--------|---|



driving direction

Overview of the module slots



APPLICATION EXAMPLES:



can switch between blue and amber

The bicoloured lightbar system DBS 5000 can be switched between blue and amber.

The blue warning signal is used to clear a path on the way to the destination.

The beacon can be switched to amber at the destination in order to act as a warning signal to secure the area.



PRODUCT FEATURES:

- can switch between blue and amber
- both colours are homologated according to ECE-R 65
- blue: can be used to indicate the right-of-way while driving
- amber: can be used as a warning signal at the destination
- direction indicator* front, rear, front & rear
- working light
- blue additional flasher
- amber additional flasher
- rear warning system (amber)
- alley light
- power flash (blue)
- red takedown flash
- day/night switching
- integration of compressor horns possible
- installation of undercarriage loudspeakers possible

} combination possible

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Direction indicator: Light according to ECE-R 6:	01 1 (E1) 4453 (front) / 01 2a (E1) 4453 (rear)
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Power flash: light according to TA 13a:	~ K 1427