

LED LIGHT BAR



The stop, rear, indicator, illumination and aisle modules can be replaced or added. **Permanently fastened to the vehicle or using an optional roof mounting kit.** Memory function.

Polarity reversal protection.

TECHNICAL DATA

Voltage	12-24 VDC			
Operating temperature	-30°C to +60°C			
Protection class	Bar: IP65, LED modules: IP67 LED			
Certification	CE, ECE R10, ECE R65 (TA1/TB1/TR1), SAE J845 class 1 (optional), CISPR 25 class 3			
Length options	35 cm, 60 cm, 90 cm, 120 cm, 150 cm, 180 cm, 210 cm			
Fastening	magnet, bracket, screw			



WARNING! 🛕

- This product contains high-intensity LED equipment.
- During operation, never look directly at the LEDs. This may cause temporary blindness or damage to vision.

FLASHING PATTERNS

35-60 CM: 26 FLASHING PATTERNS

1	single flash	10	8 times, in halves	19	fast leftward rotation
2	double flash	11	cross flashing	20	from centre to sides
3	triple flash	12	all, in halves	21	one by one, single flash
4	quadruple flash	13	all individually, fast	22	one by one, three flashes
5	eight flashes	14	rightward rotation	23	cycle
6	individually, in halves	15	leftward rotation	24	one flash on the right half
7	twice, in halves	16	constant rightward flash	25	one flash on the left half
8	three times, in halves	17	constant leftward flash	26	always on
9	four times, in halves	18	fast rightward rotation		

90-210 CM: 29 FLASHING PATTERNS

1	cycle	11	8 times, in halves	21	constant leftward flash
2	single flash	12	one by one, single flash – slow	22	from centre outward
3	double flash	13	one by one, single flash – fast	23	left arrow
4	triple flash	14	one by one, eight flashes – slow	24	right arrow
5	quadruple flash	15	one by one, eight flashes – fast	25	arrow from centre to sides
6	eight flashes	16	inward and outward – slow	26	night driving
7	individually, in halves	17	inward and outward – fast	27	one flash on the left half
8	twice, in halves	18	rightward rotation	28	one flash on the right half
9	three times, in halves	19	leftward rotation	29	always on
10	four times, in halves	20	constant rightward flash		
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Note: In two-colour mode, each pattern will flash in colour 1 and then in colour 2 (except No. 29).

MOUNTING SYSTEM

90-120 CM: 2 BRACKETS WITH 2 BRACKET HOOKS

Procedure:

- 1. Install the rubber gaskets on the brackets see Fig. 1.
- 2. Install the hook bracket and the angle bracket using the screws, gaskets and nuts see Fig. 2.
- 3. Place the light bar at the required location on the vehicle roof (the light bar should usually be in the middle).
- 4. Fasten the hook bracket to the light bar see Fig. 3.



150–210 CM: 4 BRACKETS, NOT INCLUDING HOOK BRACKET

Procedure:

- 1. Place the light bar at the required location on the vehicle roof (the light bar should usually be in the middle).
- 2. Screw the light bar to the vehicle.



CONNECTING OPTIONS

35–60 CM: CIGARETTE LIGHTER

Single colour



Colour 1 - off - colour 2 Flashing pattern selector

WIRES (WITH FUNCTIONAL MEMORY)

RED

- + VDC
- GREY:
 - + VDC, controls second colour for dual colour

BLACK:

earth

YELLOW:

- Applies for yellow to black.
- Less than 1 second for the next pattern.
- 1 to 3 seconds for the previous pattern.
- 3 to 5 seconds back to pattern No. 1.
- More than 5 seconds for shut-off. If power is turned back on, the previous pattern returns.

Dual colour

WHITE:

- Synchronization
- Connect the white wires of all heads together for synchronization.

90-210 CM:

A TOTAL OF 4 TYPES:

- 2 types without terminal blocks
- 2 types with terminal blocks

NO TERMINAL BLOCKS

VARIANT 1: DIRECT WITH 4 WIRES

RED

- positive +
- BLACK:
 - negative –

YELLOW:

- flashing pattern selection
- Apply voltage to the red wire to light up and change patterns

BLUE:

• synchronization



VARIANT 2: DIRECT WITH CONTROLLER (standard)

RED

positive +

BLACK:

• negative –

Function selection with buttons on the controller



Controller functions:

0	turn power on/off	◀	left arrow
M	turn flashing pattern on/off	(+)	arrow from centre to sides
	previous pattern		right arrow
۲	next pattern	(LA)	light up left aisle
	low output	RIA	light up right aisle
	single colour (change to second colour if dual colour)	FIS	front light
CODE 2	dual colour	RS	rear light

WITH TERMINAL BLOCKS VARIANT 3: WITH TERMINAL BLOCKS (no controller)

RED

positive +

BLACK:

• negative –



- Select functions using the wires from port 1 and port 2.
- Depending on customer requirements, some wires may not be used.

Functions of 8 wires (port 2):

- 1. Yellow (on/off): Permanently connect the yellow wire to the red wire (positive); then the light bar will start working.
- 2. Purple (flashing pattern selector): Apply voltage to red wire, less than 1 sec. for next pattern.
- 3. Red/green (left/right aisle): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 4. Blue/brown (front/rear light): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 5. Orange (always off): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 6. Black (colour): Ignore when using the bar with one colour. If you are using the dual colour version, apply voltage to positive for 0–1 second. Apply the voltage again to switch to two colors alternately.

Functions of 6 wires (port 1):

- 1. Brown/blue (brake/rear): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 2. Black/yellow (left/right indicator): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 3. Green (illumination): Apply voltage to red wire (positive), less than 1 sec. for implementation.
- 4. White (synchronization): For synchronization with another identical light bar, connect the positive, negative and yellow wires of both light bars to one terminal block, and connect one of the blue wires to the terminal block.

VARIANT 4: WITH CONTROLLER AND TERMINAL BLOCKS

RED

• positive +

BLACK:

• negative –



- Select functions using the buttons on the controller or with the wire from port 1 and port 2. If you use the wires, control the light bar according to page 5.
- Depending on customer requirements, some wires may not be used.

Controller functions:

0	Turn power on/off		Left arrow
M	Turn flashing pattern on/off	(+)	Arrow from centre to sides
	Previous pattern		Right arrow
	Next pattern	(LA)	Light up left aisle
w	Low output		Light up right aisle
	Single colour (change to second colour if dual colour)	FR	Front light
000E 2	Dual colour	RS	Rear light

NOTE



- If you use the 8-wire harness for the light bar, unplug the controller from the terminal block.
- The light in the aisle represents the standard configuration. Other functions, such as point/ front/indicator and illumination, are optional configurations.

MAINTENANCE

CHANGING LED MODULES

A new LED module must be inserted into the same place after removing the first module, and it must be replaced with an identical one, so that no failure occurs.

1. Open the lamp cover.



2. Insert the new LED modules in the original location and secure them. Then attach the cover.



NOTE



- Before replacing LED modules and motherboards, disconnect the power.
- During operation, never look directly at the LEDs. This may cause momentary blindness or permanent damage to vision.

REPLACING A MOTHERBOARD

Procedure:

- 1. Before replacement, for the purpose of precise replacement, take a photo.
- 2. Cut the 4 wires coming from the motherboard, and replace the board with a new one with an attachment point for easy replacement.
- 3. The wire from the four corners of the motherboard must run along the gap on both sides of the box.

