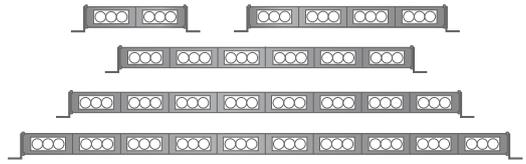


LED WARNING BAR

2/4/6/8/10 LED MODULE

Wiring & Operation Instructions



- High output, wide viewing angle.
- Dimming function.
- Multiple mounting options.
- Low current draw.
- Can be synchronised with other LS Series LEDs.
- Epoxy encapsulated electronics for environmental & vibration protection.

Specifications:

Size:		Output Power:	
2 LED Module	W210mm x H57mm x D68mm	2 LED Module	21.6W
4 LED Module	W410mm x H57mm x D68mm	4 LED Module	43.2W
6 LED Module	W610mm x H57mm x D68mm	6 LED Module	64.8W
8 LED Module	W810mm x H57mm x D68mm	8 LED Module	86.4W
10 LED Module	W1010mm x H57mm x D68mm	10 LED Module	108W
Input current:		Flash patterns:	
2 LED Module	1.8A@12V / 0.9A@24V	2 LED Module	17
4 LED Module	3.6A@12V / 1.8A@24V	Other Modules	26
6 LED Module	5.4A@12V / 2.7A@24V	Lens:	Polycarbonate
8 LED Module	7.2A@12V / 3.6A@24V	Body:	Aluminium
10 LED Module	9A@12V / 4.5A@24V	Wire length:	1000mm
Input voltage:	10-30VDC		
Approvals:	SAE-W-07		

Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request), and Manufacturer further warrants that this product is free from defects in materials and workmanship. The Limited Warranty extends for five (5) years from the date of purchase. Other warranties may apply, call the Manufacturer for details. The Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

DAMAGE TO PARTS OF PRODUCT RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN THE MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

ORAL STATEMENTS OR REPRESENTATIONS ABOUT THE PRODUCT WHICH MAY HAVE BEEN MADE BY SALESPEOPLE, DEALERS, AGENTS OR OTHER MANUFACTURER'S REPRESENTATIVES DO NOT CONSTITUTE WARRANTIES. THIS LIMITED WARRANTY MAY NOT BE AMENDED, MODIFIED, OR ENLARGED EXCEPT BY A WRITTEN AGREEMENT SIGNED BY AN AUTHORISED OFFICIAL OR MANUFACTURER WHICH EXPRESSLY REFERS TO THIS LIMITED WARRANTY.

Exclusion of Other Warranties:

The manufacturer makes no other warranties, express or implied. The implied warranties for merchantability or fitness for a particular purpose are hereby excluded and shall not apply to the product. Buyer's sole and exclusive remedy in contract, tort, or under any other theory against manufacturer regarding the product and its use shall be the replacement or repair of the product as described above.

Limitation of Liability:

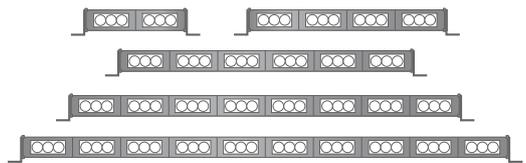
In the event of liability for damages arising out of the limited warranty or any other claim related to the manufacturer's products, the manufacturer's liability for damages shall be limited to the amount paid for the product at the time of the original purchase. In no event shall the manufacturer be special, consequential, or incidental damages based upon any claim for breach of contract, improper installation, negligence, or other claim, even if the manufacturer or a manufacturer's representative has been advised of the possibility of such damages. The manufacturer shall have no further obligation or liability with respect to the product or its sale, operation and use, and the manufacturer neither assumes nor authorises the assumption of any other obligation or liability in connection with such product.

This Limited Warranty defines specific legal rights. You may have other legal rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages.

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Limitation of Liability:

In the event of liability for damages arising out of the limited warranty or any other claim related to the manufacturer's products, the manufacturer's liability for damages shall be limited to the amount paid for the product at the time of the original purchase. In no event shall the manufacturer be special, consequential, or incidental damages based upon any claim for breach of contract, improper installation, negligence, or other claim, even if the manufacturer or a manufacturer's representative has been advised of the possibility of such damages. The manufacturer shall have no further obligation or liability with respect to the product or its sale, operation and use, and the manufacturer neither assumes nor authorises the assumption of any other obligation or liability in connection with such product.

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WARNING failure to install or use this product according to manufacturer's recommendations may result in product damage and may void warranty.

Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

Patterns:

2 LED Module:

- | | |
|-------------------------------------|------------------------------------|
| P1: Burst Alternation (sync) | P10: Quad/Single Flash Alternating |
| P2: Burst Flash All (sync) | P11: Quad/Single Flash All |
| P3: Burst Flash All (sync) | P12: Speed-up All |
| P4: Quad Flash Alternating (sync) | P13: Speed-up Alternating |
| P5: Quad Flash All (sync) | P14: Burst/single Alternating |
| P6: Quad Flash H1 (sync) | P15: California Flash |
| P7: Single Flash Alternating (sync) | P16: Steady |
| P8: Single Flash All (sync) | P17: Cycle Flash |
| P9: Single Flash All (sync) | |

4/6/8/10 LED Module:

- | | |
|--------------------------------------|--|
| P1: Quad Flash Alternating (sync) | P14: Single Flash All (sync) |
| P2: Quad Burst Split (sync) | P15: Single Flash All (sync) |
| P3: Quad Burst Alternating (sync) | P16: Speed-up Flash Alternating |
| P4: Quad Flash All (sync) | P17: Speed-up Flash Split |
| P5: Quad Flash All (sync) | P18: Speed-up Alternating |
| P6: Quad Flash H1 (sync) | P19: Speed-up All |
| P7: Quad Burst Split (sync) | P20: Quad/single Alternating |
| P8: Quad Burst Alternating (sync) | P21: Chasing Flash (Knight Rider) – Slow |
| P9: Quad Flash All (sync) | P22: Chasing Flash (Knight Rider) – Medium |
| P10: Quad Flash All (sync) | P23: Chasing Flash (Knight Rider) – Fast |
| P11: Single Flash Alternating (sync) | P24: California Flash |
| P12: Single Flash Split (sync) | P25: Steady |
| P13: Single Flash Alternating (sync) | P26: Cycle Flash |

Important! This unit is a safety device, and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Wiring Instruction:

- Red Wire – Positive Pole.
- Blue Wire – Momentary apply to battery negative for pattern select.
- Black Wire – Negative Pole.
- Yellow Wire – Connect with other LS Series LEDs for synchronization.
- White Wire – Connect to battery negative for dimming function.



Vehicle specific wiring instructions provided as a guide only. Responsibility for final suitability and application of product remains the responsibility of the installer. IONNIC takes no responsibility for application of these instructions or for vehicle manufacturer's electrical system or wiring variations.

Flash Pattern Selection:

Method of selecting flash patterns by applying BLUE to the BLACK wire:

- 1 second (Pulse) = next pattern
- 1 - 3 seconds = previous pattern
- 5+ seconds = OFF

Dimming Function:

- To activate the dimming function, contact the WHITE wire to the BLACK wire.
- While the dimming function is active the light output from all LEDs is reduced.

WARNING! Disable power before wiring up the unit.

Safety:

All the conditions in this instruction manual provide the necessary information for you to properly and safely install the LED Warning Bar. Important information is contained herein that could prevent serious injury or damage.

Do NOT stare directly into the high-intensity LEDs. Momentary blindness and/or eye damage could result.

Do NOT install this product or route harness in the vicinity of any original vehicle safety equipment/air bags, doing so may cause a serious injury in the event of airbag deployment. Please refer to your vehicle owner manual for the air bag location. The installer must take full responsibility to determine mounting location in order to prevent any potential dangers.

If mounting this product requires drilling holes, the installer must be sure that no vehicle components or other vital parts could be damaged by the drilling process. Install grommets into all wire passage holes. Do not try to activate or control this product in a hazardous driving situation. In order to operate this product effectively, a good electrical connection to chassis ground must be made.

Use soapy water to clean the outer lens if required. The entire product is waterproof (this does not include cigarette plug controller, if optioned). Please ensure all cleaners are suitable for use with polycarbonate before application. Using an incompatible chemical cleaner could result in lens cracking (crazing) and discolouration. Inspect and operate this product regularly to ensure proper operation and mounting condition. Do not use a pressure washer to clean this product.



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4/6/8/10 LED Module:

- | | |
|--------------------------------------|--|
| P1: Quad Flash Alternating (sync) | P14: Single Flash All (sync) |
| P2: Quad Burst Split (sync) | P15: Single Flash All (sync) |
| P3: Quad Burst Alternating (sync) | P16: Speed-up Flash Alternating |
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