



12-24VDC
Preliminary

ULTRA LOW PROFILE LIGHTBAR w/ Programmable Serial bus Control Module



FEATURES

- **Fully-Programmable:** All function wires and individual lighthouse actions may be customized and re-programmed to user's preference.
- **Ultra Low Profile:** With only 4 cm (1.69") in height, the Raiden™ lightbar is among the thinnest premium lightbars in the market.
- **Wiring at Ease:** Plug-n-play Serial bus Control Module that converges all wires for a easier installation and simpler wiring.
- **Ambient Light Sensor:** Built-in sensor that detects ambient light and automatically activate or deactivate the Low-Power operation.
- **Single, Dual Color Lighthouse:** Choice of any color combination.
- **Powerful Optics:** 360 degree seamless output that meet and exceed ECE R65 Class 2, SAE and ICAO standards.
- **Colored Top:** Choice of any colored top cover to show your designation.
- **Quality and Durability:** Highest tier premium bar that is built to last and protect your road safety.
- **Multi-Voltage:** Input 12-24VDC with EMC Compliance.
- **Easy maintenance:** Simple removal of top cover for re-configuration or replacement of lighthouses.
- **Built-in Speaker:** Extra Power Speaker.
- **Powerful Hybrid Alley + Warning lighthouse.**

SPECIFICATIONS

Compliance: SAE J845 Class 1, SAE J595 Class 1; CA Title 13; CISPR25

NOTE: actual approvals may vary; based on actual lightbar configuration.

Operating Voltage: 12-24VDC

Cable & Wire Gauge: Single Loom Cable, 500 cm (16.4 Feet)

48" (1220mm)

Power Cable - 2 wires @ 12AWG

Comm. Cable - 2 wires @24AWG

Serial bus Control Module: 30 cm (11.8 Inch) x 2 Harness

6-PIN Harness (PWR/LB Comm.) | 18-PIN Harness (Input/Output)

2 x PWR wire @22AWG | 16 x Function Input wire @24AWG

2 x Comm. wire @24AWG | 2 x Function Output wire @24AWG

No. of LEDs: Single Color Lighthouse - 6LED per Lighthouse

Dual Color Lighthouse - 12LED per Lighthouse

COLOR OPTIONS

LED Color: Amber, Blue, Green, Red, White (Single or Dual)

Lens Color: Clear

Top Cover Color: Amber, Black, Blue, Clear, Red

CURRENT & POWER RATING

CURRENT	@12.8VDC		@25.6VDC	
	Max. Current (A)	Avg. Current (A)	Max. Current (A)	Avg. Current (A)
6LED Single Color Lighthouse 6+6LED Dual Color Lighthouse	1.1/ each	0.55/ each	0.55/ each	0.28/ each
Serial-bus Controller Module	0.14/ each	0.1/ each	0.1/ each	0.1/ each

POWER	@12.8VDC		@25.6VDC	
	Max. Power(W)	Avg. Power (W)	Max. Power(W)	Avg. Power (W)
6LED Single Color Lighthouse 6+6LED Dual Color Lighthouse	14.08/ each	7.04/ each	14.08/ each	7.17/ each
Serial-bus Controller Module	1.79/ each	1.28/ each	2.56/ each	2.56/ each

NOTE: Please calculate the total Current and Power consumption base on your lightbar configuration.

SUGGESTED FUSE RATING

FUSE RATING	@12.8VDC	@25.6VDC
6LED Single Color Lighthouse 6+6LED Dual Color Lighthouse	1.49	0.74
Serial-bus Controller Module	0.19	0.14

NOTE: Please calculate the total fuse rating needed base on your lightbar configuration.

FLASH PATTERN (Setting via a PC only)

FLASH PATTERN CHART			
1	Double	[2Hz]	19 Triple-Triple Mid
2	Single	[2Hz]	20 Quint-Triple
3	Triple	[2Hz]	21 7-1 Flash
4	Quad	[2Hz]	22 Quad-Single
5	Single	[SAE]	23 Quint-Quint
6	Double	[SAE]	24 Single [1.25Hz]
7	Triple	[SAE]	25 Random
8	Quad	[SAE]	26 Steady Max
9	Quint		27 Steady 100%
10	Mega		28 Steady 75%
11	Giga		29 Steady 50%
12	Ultra	[SAE]	30 Steady 25%
13	Single-Quad		31 Steady 5%
14	Single H/L		32 Steady 1%
15	Single-Triple-Quint		33 Brake (Aux.) - SAE/ECE
16	Single-Single		34 Tail (Aux.) - SAE/ECE
17	Double Double		35 Turn (Aux.) - SAE/ECE
18	Triple-Triple Fast		36 Reverse (Aux.) - SAE/ECE



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BAR PATTERN
(Setting via a PC only)

CLASSIC BAR PATTERN					
1	Left-Right Single-Single	11	Left-Right Swing I	21	In-Out Quad-Quad
2	Left-Right Double-Double	12	Left-Right Triple-Blast	22	In-Out Quad-Single
3	Left-Right Double-Single	13	Left-Right Swing II	23	In-Out Single H/L II
4	Left-Right Triple-Triple	14	Left-Right Swing III	24	In-Out Double Double II
5	Left-Right Triple-Single	15	Left-Right Triple H/L	25	In-Out Double-Blast
6	Left-Right Quad-Quad	16	In-Out Single-Single	26	In-Out Swing I
7	Left-Right Quad-Single	17	In-Out Double-Double	27	In-Out Triple-Blast
8	Left-Right Single H/L II	18	In-Out Double-Single	28	In-Out Swing II
9	Left-Right Double-Double II	19	In-Out Triple-Triple	29	In-Out Swing III
10	Left-Right Double-Blast	20	In-Out Triple-Single	30	In-Out Triple H/L

TRAFFIC ARROW PATTERN
(Setting via a PC only)

TP#	TRAFFIC ARROW PATTERN
1	Sweep Single
2	Sweep Double
3	Sweep Triple
4	Sweep Single End-Double
5	Solid
6	Solid End-Double
7	Solid Chaser
8	Solid Fade
9	Blink Double
10	Blink Triple
11	Blink Solid

PULSING BAR PATTERN					
1	All Pulsing	9	Clockwise Pulsing Chaser	17	Clockwise Pulsing Comet
2	All Pulsing Fast	10	Anti-Clockwise Pulsing Chaser	18	Anti-Clockwise Pulsing Comet
3	Left-Right Pulsing	11	Clockwise Pulsing Chaser Fast	19	Clockwise Pulsing Comet Fast
4	Left-Right Pulsing Fast	12	Anti-Clockwise Pulsing Chaser Fast	20	Anti-Clockwise Pulsing Comet Fast
5	All Pulsing Tremor	13	Clockwise Pulsing Scan	21	Split Pulsing Chaser
6	All Pulsing Tremor Fast	14	Anti-Clockwise Pulsing Scan	22	Split Pulsing Chaser Fast
7	Left-Right Pulsing Tremor	15	Clockwise Pulsing Scan Fast	23	Split Pulsing Scan
8	Left-Right Pulsing Tremor Fast	16	Anti-Clockwise Pulsing Scan Fast	24	Split Pulsing Scan Fast
				25	Split Pulsing Comet
				26	Split Pulsing Comet Fast
				27	In-Out Pulsing Scan Wig-Wag
				28	In-Out Pulsing Scan Wig-Wag Fast
				29	Left-Right Pulsing Scan Wig-Wag
				30	Left-Right Pulsing Scan Wig-Wag Fast
				31	Butterfly Pulsing Scan
				32	Butterfly Pulsing Scan Fast

MOUNTING OPTIONS & ACCESSORY

99-LRDNM00-000
Low Profile Standard Brackets (2PCS)
** For custom strap kit, contact your sales representative.*



99-LRDNM06-000
2° Angled Gasket (2PCS)



99-LRDNM01-000
Low Profile Narrow Flat Surface Mount Brackets (2PCS)



99-LRDNM03-000
Low Profile Narrow Flat Surface Mount Brackets (3PCS), for 66" & 72" Lightbar



99-LRDNC01-000
Serial bus Control Module



99-LRDNM02-000
Low Profile Wide Flat Surface Mount Brackets (2PCS)



99-LRDNM04-000
Low Profile Wide Flat Surface Mount Brackets (3PCS), for 66" & 72" Lightbar



99-LKPRM02-000
35mm Rubber Mounting Feet (2PCS)

99-LRDNM05-000
35mm Rubber Mounting Feet(3PCS), for 66" & 72" Lightbar



DIMENSIONS

