



LEGEND

AS BRILLIANT
INSIDE AS IT IS OUTSIDE.

The LEGEND lightbar from Federal Signal 

THE LEGEND™ LIGHTBAR

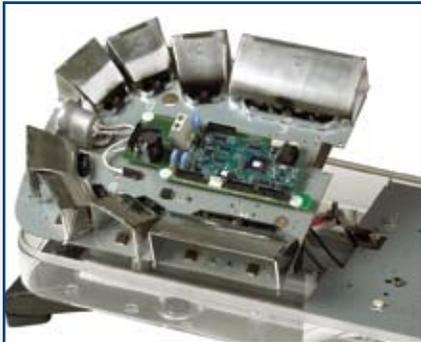
BRIGHT NEW THINKING

From the leader in emergency warning technology.

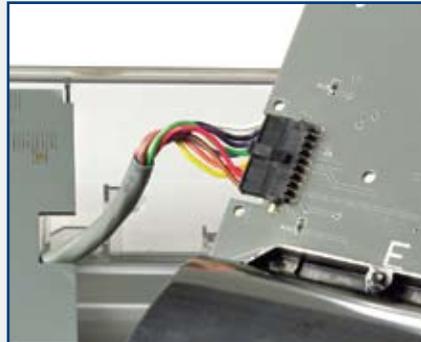
Introducing a brilliant new design for a stealthy appearance.

> SMARTER

ROC SOLID CONSTRUCTION Patent-pending ROC (Reliable Onboard Circuitry™) technology eliminates 85% of potential failure points in the lightbar — reducing repair costs and increasing the hours your emergency vehicles stay on the road.



ROC with the Micro-Processor Controller delivers advanced communication between the controller head and lightbar.

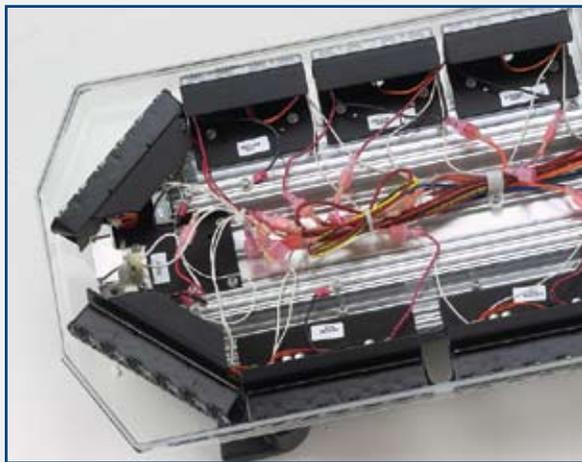


Minimal Board-to-Board Connections reduce about 85% of potential failure points. ROC uses a printed circuit board in one assembly to significantly reduce the electrical connections found in a typical lightbar.



Solaris Technology and ROC design provide exceptional 360-degree coverage, which eliminates dark spots and creates superior off-axis warning around the lightbar.

YESTERDAY'S TECHNOLOGY. The most common failure points found in a typical lightbar, as shown below, occur between the connector to its light source and the lightbar's power source. With older technology, each light head usually has at least two, sometimes four, connections per light head. ROC technology reduces the number of parts found in a typical lightbar by approximately 65%.



way to improve safety - the Legend from Federal Signal. Featuring a popular, low-profile appearance. The Legend provides 360-degree coverage and superior off-axis warning.

> SIMPLER

SIMPLE TO CUSTOMIZE AND CONFIGURE Legend can be easily reconfigured in minutes, right on the vehicle, without removing and rewiring individual modules. ROC boards are also individually labeled to make reconfiguration easy.



1 Remove the top dome with only four screws.



2 Disconnect the ROC board by the 22-gauge wire harness.



3 The base slides off for quick replacement.

Internal SignalMaster™ Directional Warning

Legend can be configured for internal Federal Signal SignalMaster control operation. In this mode, an external SignalMaster controller is not required. A simple slide switch activates the lightbar's internal SignalMaster.



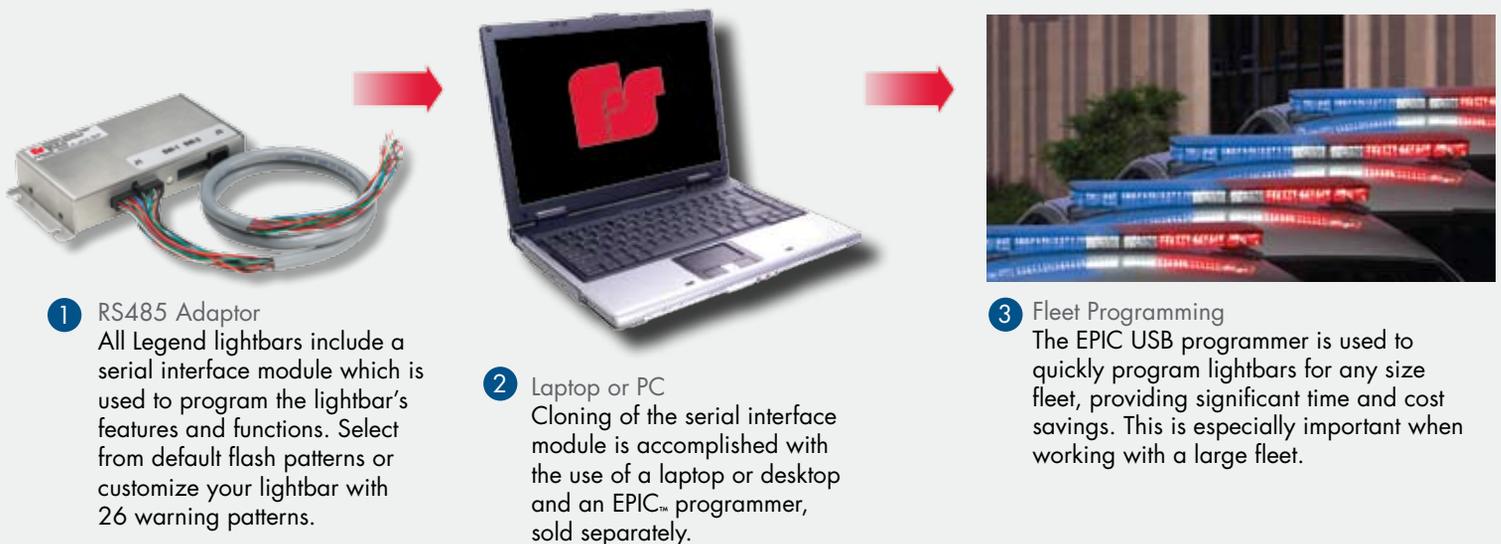
While operating in three priority modes, all modules keep sequence with the flash pattern. Once directional warning is selected, the SignalMaster modules override the current flash pattern.



LEGEND AND RS485 SYSTEM With the RS485 System, it is fast and easy to clone and duplicate patterns from vehicle to vehicle. The function of each individual light head can be controlled with the RS485 system.

- Four default patterns are included for positions 1, 2, 3 and the intersection clearing mode.
- Lightbars are controlled through a standard RS485 bus connection. Protocol is based on SAE J1708 and J1587 standards.
- Compact serial interface module is included with every lightbar for those vehicles not equipped to accept RS485 bus connections.
- Built-in SignalMaster directional warning capability is standard with the Legend. SignalMaster patterns can be activated via a standard switch and do not need a separate directional warning controller.
- Additional pre-programmed options such as front/rear cut-off, intersection warning, and dimming can easily be programmed into the lightbar operation and cloned from vehicle to vehicle.

EASY CONFIGURATION



LEDs are offered in red, blue, white, amber, and green.
Domes are available in red, blue, amber, and clear.

THE LEGEND® LIGHTBAR

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> SAFER

SOLARIS - THE BEST AND BRIGHTEST IN LIGHTING TECHNOLOGY

Our patent-pending Federal Signal Solaris design features the latest in LED reflector technology for a bright and intense off-axis light output.



Optional ultra bright white LED Takedown lights!



- The brightness of halogens with Federal Signal's patent pending Solaris high performance LED takedowns.
- Solaris reflector design provides focused lighting for increased officer safety and protection.
- LEDs reduce the current draw, freeing up amperage for other essential vehicle equipment.

Note: Halogen takedown lights are also available.

MORE FEATURES FOR SAFER OPERATION

All Legend lightbars contain an advanced micro-processor controller which provides three modes of operation, a library of flash patterns, adjustable alley and takedown lights (halogen), front/rear cut-off, dimming, and intersection warning.

Dimming Provides Additional Officer and Pedestrian Safety

Operable in modes one and two, the dimming feature reduces light output to half its intensity. For officer safety, the dimming feature is not activated in mode three.



Adjustable Alley and Takedown Lights (halogen)

The halogen alley and takedown lights can be adjusted horizontally and vertically to ensure proper visibility.



Rear Cut-off



Front Cut-off

Front and Rear Cut-off may be used in Mode One, Two, or Three

SMARTER, SIMPLER, AND SAFER – DISCOVER THE LEGEND ADVANTAGE

To learn more about what the LEGEND performance can do for you, call 800-264-3578.

FEDERAL SIGNAL'S ON-LINE LIGHTBAR CONFIGURATOR IS QUICK AND EASY TO USE.

To configure your Legend 24", 45", 53", and 61" lightbars, go to www.fedsig.com. Save, print, or e-mail your configuration to a Federal Signal Customer Support Representative or contact your local distributor today.

Warning Light Specifications

Lighting Options	Current Draw	Lamp/Technology	Watts	Reflector Style
LED Takedown Light	1.0 A**	Six Gen III high brightness LEDs	-	Offset, compound-curve, polished spot beam reflector
Halogen Takedown Light	3.9 A*	Bi-pin halogen	50	Polished
Alley Light	2.7 A*	Bi-pin halogen	35	Faceted
Solaris LED-Main Lightbar	1.0 A**	Six Gen III high brightness LEDs	-	Offset, compound-curve polished reflector

* Amperage per pair, with flashing takedown and alley lights.

**Amperage in steady burn mode.

Technical Specifications

Model	Length	Height	Width	Weight	Operating Voltage	Operating Temperature
LGD24	24.25 in (61.6 cm)	2.5 in (6.4 cm)	11.2 in (28.4 cm)	16.6 lbs*	12.8 VDC	-30°C to +65°C
LGD45	44.5 in (113.0 cm)	2.5 in (6.4 cm)	11.2 in (28.4 cm)	20.4 lbs*	12.8 VDC	-30°C to +65°C
LGD53	52.7 in (133.9 cm)	2.5 in (6.4 cm)	11.2 in (28.4 cm)	24.2 lbs*	12.8 VDC	-30°C to +65°C
LGD61	60.9 in (154.7 cm)	2.5 in (6.4 cm)	11.2 in (28.4 cm)	28.0 lbs*	12.8 VDC	-30°C to +65°C

* Standard foot included.



Advancing security and well-being.

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