

# California

# TITLE 13



Approved  
LED Products





## What is California Title 13?

California Title 13 is a regulation set forth by the California Code of Regulations for vehicle warning. The regulation categorizes and sets standards of lighting intensity that warning lamps should meet to promote safety of workers and citizens. Though the standards are similar to ones set by SAE (Society of Automotive Engineers), California Title 13 is specific to California highways.

# TITLE 13

## How are Federal Signal's products certified with California Title 13 Approvals?

All of Federal Signal's California Title 13 products are tested in an AMECA (Automotive Manufacturers Equipment Compliance Agency) Accredited laboratory. As an added effort many products have also been tested at a third party AMECA Accredited laboratory to ensure an unbiased test report approval. These test report summary results can be found on Federal Signal's website on specific product pages — visit [www.fedsig.com](http://www.fedsig.com).

For more information on Federal Signal's California Title 13 Approved Products Contact your local representative or Federal Signal's Amber Customer Support Team at

**800-824-0254**

Detailed product information can also be found at



**[www.fedsig.com](http://www.fedsig.com)**



# LIGHT BARS

## Allegiant™

**5** YEAR WARRANTY


- Low-profile, linear LED light bar
- Traditional nine-conductor cable or FS Convergence Network, serial light bar
- Available in 45", 53", 61" and 70" lengths
- Two-color capability with LED colors in Amber, Blue, Green, Red, and White\*
- Top domes offered in Amber, Blue, Clear, Gray and Red
- Bed light, flood light, and work light available
- Low power mode
- Built-in SignalMaster™ directional warning (Serial only)



## Legend®

**5** YEAR WARRANTY


- Low-profile, linear LED light bar
- FS Convergence Network, serial light bar
- Available in 24", 45", 53", 61" and 70" lengths
- LEDs offered in Amber, Blue, Green, Red and White\*
- Top domes offered in Amber, Blue, Clear, and Red
- Built-in SignalMaster™ directional warning
- Low power mode



## Navigator®

**5** YEAR WARRANTY


- High-profile, linear LED light bar
- Traditional nine-conductor cable or FS Convergence Network, serial light bar
- Available in 10", 18", 25", 45", 53", 60", 73", and 87" lengths
- Two color capability with LED colors in Amber, Blue, Green, Red and White\*
- Domes offered in Amber, Blue, Clear and Red
- Clear or Black bulkheads
- Optional SignalMaster™ directional warning (45", 53" and 60")
- Front flood capability



## Integrity®

**5** YEAR WARRANTY


- Low-profile, linear light bar
- FS Convergence Network, serial light bar
- Available in 44" and 51" lengths
- Three color capability with LED colors in Amber, Blue, Green, Red and White
- Built-in SignalMaster™ directional warning
- Front and rear flood feature



\*Not all colors and flash patterns meet CA Title 13 requirements



# LIGHT BARS

## Valor®



**5** YEAR  
WARRANTY

- Low-profile, non-linear V-shaped light bar
- FS Convergence Network, serial light bar
- Available in 44" and 51" lengths
- Three-color capability with LED colors in Amber, Blue, Green, Red, and White\*
- Built in SignalMaster™ directional warning
- Front and rear flood feature



\*Not all colors and flash patterns meet CA Title 13 requirements





# DIRECTIONAL WARNING

## Latitude<sup>™</sup> SignalMaster<sup>™</sup>

**5** YEAR WARRANTY

- Available in 6- or 8-head models
- Three-LEDs per light head
- Both interior and exterior mounting brackets available
- Innovative co-extrusion, polycarbonate housing provides moisture resistance
- Left, right and center-out warning signals



## MicroPulse<sup>®</sup> SignalMaster<sup>™</sup>

**5** YEAR WARRANTY

- Utilizes special MicroPulse 1200 light heads
- Externally mounted
- Easy serviceability
- IP67 Rated for protection against dust and water
- Available directional patterns include: left, right, center out, and flashing warning
- Visor-like extrusion designed to help block sunlight, increasing the warning effectiveness
- Compatible with Federal Signal's SignalMaster controllers
- The full-featured controllers include low-power mode to reduce amp draw for nighttime operation and fast mode that increases the "build" speed of the warning pattern





# DIRECTIONAL WARNING

## 8200S SignalMaster™ Traffic Arrow



**3** YEAR  
WARRANTY

- Arrow style lights available in 16-head and 12-head versions
- 18" whip with water-tight connector standard on all units. 15-ft and 30-ft extensions cables available
- Aluminum housing with rail design compatible with seven mounting brackets
- Optional 8-button controller available
- 12 VDC

## 8200S SignalMaster™ Stick



**3** YEAR  
WARRANTY

- Traditional Stick style lights available in 6-head and 8-head versions
- 18" whip with water-tight connector standard on all units. 15-ft and 30-ft extensions cables available
- Aluminum housing with rail design compatible with seven mounting brackets
- Optional 8-button controller available
- 12 VDC



# MINI-LIGHT BARS

## HighLighter® LED Plus


**5** YEAR  
WARRANTY

## HighLighter® LED Pro


**5** YEAR  
WARRANTY

	HighLighter LED Plus	HighLighter LED Pro
Discrete	✓	✓
Configured		✓
Sync		✓
Dimming	✓	✓
MagnetSelect™	✓	✓
Magnet Included	✓	✓
LED Count	36	up to 42
Solaris® LED Reflectors	✓	✓
ROC (Reliable Onboard Technology™)	✓	✓
LED Warranty (years)	5	5



## 21" Allegiant



- Low-profile, linear light bar
- Traditional and serial versions available
- Two-color capability with LED colors in Amber, Blue, Green, Red and White\*
- Domes offered in Amber, Clear, and Gray
- Flat mount, low-profile permanent, and 4 inch riser mounting options available
- ROC (Reliable Onboard Circuitry™) technology
- SpectraLux® multicolor LED Technology
- Solaris® LED reflector technology


**5** YEAR  
WARRANTY

\*Not all colors and flash patterns meet CA Title 13 requirements



# BEACONS

## LP800 LED Beacon



**5** YEAR  
WARRANTY

- Solaris® technology maximizes the LED light source for full 360-degree of light output
- Two-levels of Solaris reflectors each with (15) LEDs
- Low Amp draw
- Durable shock proof polycarbonate lens with reinforced nylon base
- Meets NFPA Rear Zone C Upper when used as a pair (1 Red and 1 Amber or 2 Ambers to meet NFPA)
- Permanent Mount



## SLR Beacon



**5** YEAR  
WARRANTY

- Rotating LED beacon with (12) high-powered LEDs
- SLR patented (Solaris® LED reflector) technology
- 75/90/120 RPM
- Multi-voltage, 12/24 VDC
- Built-in permanent/1-inch pipe mount base



## Pro LED Beacon



**5** YEAR  
WARRANTY

- High- and low-profile LED beacon
- Single and dual color versions available
- (25) selectable flash patterns
- FSLink™ syncing technology
- Multi-voltage, 12/24 VDC
- Built-in permanent/1-inch pipe mount aluminum die-cast base



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# PERIMETER LIGHTS

## MicroPulse®


**3** YEAR  
WARRANTY

- Low-profile for discrete mounting
- Models available for hood, grille, and surface mount applications
- Superior warning with high-power LEDs
- Solid and dual color models available
- Single/multi-unit synchronization
- Multi-voltage input of 12/24 VDC
- Brackets available for multiple mounting options

## MicroPulse® C Series


**3** YEAR  
WARRANTY

- Superior warning with (6) high-powered LEDs
- Single and split color models available
- Includes Black surface mount bezel and stud mount; Chrome or White bezels optional
- Low profile for discrete mounting
- Single/multi-unit synchronization
- (27) selectable flash patterns including steady and random

## MicroPulse® Ultra 3, 6 and 12


**3** YEAR  
WARRANTY

- Superior warning with high-powered LEDs
- Low-profile design offers wider range of mounting locations
- (18) MPS3U, (25) MPS12U flash patterns
- Suitable for external and/or internal mounting applications
- Includes Black bezel and gasket, optional bezels available in Chrome or White
- Single/multi-unit synchronization

## MicroPulse® Wide Angle 6 and 9

- Utilizes (6), (9) or (12) LEDs; 180-degree light spread
- Perfect for mounting on push bumpers, rub rails, side mirrors and spoilers
- Synchronizes with other MicroPulse products
- Available in Single, Split, or Dual Color models
- UV resistant polycarbonate lens
- (12) MPSW9 Single Color, (18) MPSW9 Dual Color or (27) MPSW6 selectable flash patterns
- Black bezel included; Optional Chrome (MPSW9/MPSW6) and White (MPSW6) bezels available
- IP67 rated for protection against dust and water


**3** YEAR  
WARRANTY

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# PERIMETER LIGHTS

## 8200S

**3** YEAR  
WARRANTY


- Surface mount, 8-LED light head
- (12) selectable flash patterns
- 12 VDC
- Amber and White LEDs
- Wire Color
  - Black > Ground
  - Red > Power
  - Yellow > Pattern Select (Synchronization and Alternation)

## IMPAXX®

**5** YEAR  
WARRANTY


- IMPAXX3 – 3-LED single color perimeter light
- IMPAXX6 – 6-LED single color or 12-LED dual color perimeter light
- Prescription lens provides superior off-axis warning for horizontal mounting applications
- Includes black mounting bezel; chrome bezel optional
- LEDs offered in Amber, Blue, Green, Red and White\*
- Fully-encapsulated waterproof housing



## Latitude™

- LED flashing warning light
- Flashing models available in 4-head, 6-head, or 8-head
- Three-LEDs per light head
- Optimal mounting brackets and shrouds are available.
- Number of flash patterns vary by model
- SignalMaster models include Federal Signal's economy SignalMaster controller
- Innovative co-extrusion, polycarbonate housing provides moisture resistance


**5** YEAR  
WARRANTY

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# PERIMETER LIGHTS

## QuadraFlare®


**5** YEAR  
WARRANTY

- Advanced Solaris® LED reflector technology
- Available in 4x3, 6x4, 7x3, and 9x7 models
- 9x7 models feature unique Quad-X patterns
- Available with built-in flasher featuring a variety of selectable patterns
- Optional Chrome-plated trim bezel (shown above)
- Brake/Tail/Turn, Turn Arrow and Back-up light models available in 6x4



## SignalTech®


**3** YEAR  
WARRANTY

- 4" round and 6" oval LED lights
- 2.5" side marker clearance LED lights
- Rubber grommets included
- Sealed wiring harness
- Random, alternating or synchronous flash patterns
- S/T/T and Back-up/Turn: FMVSS 108 compliant, SAE J1398 and SAE J593

## FireRay®


**5** YEAR  
WARRANTY

- IP67 Rated for protection against dust and water
- Available in 4x3, 6x4, 7x3, and 9x7 models
- Warning models include steady burn pattern that can be connected to an external flasher or multiplex system
- (13) selectable flash patterns and (4) flash modes: full flash, left/right split flash, top/bottom split flash, and criss-cross split flash
- Low power feature decreases warning lights to 40% of normal power
- Available in single and split color with clear or colored lens
- Optional bezels available in Chrome or Black
- Surface mounts with or without a bezel. Fits industry standard bolt patterns
- Synchronize or alternate up to 15 units

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Federal Signal is The Driving Force™ behind the technology that provides safe and reliable emergency warning for first responders. It is our commitment to engineer the most reliable and high-performing products for your emergency vehicles.

Exclusive to Federal Signal, these innovative technologies help provide work zone safety.



Ask your local FS Representative how you can experience the latest Federal Signal products.

# VEHICLE TECHNOLOGY



**SpectraLux® multicolor LED technology** provides the ability for a LED light head to change color while in operation. LEDs can change between Red, Blue, Amber or White through user-selected flash patterns.



**SOLARIS® LED reflector technology** is engineered to increase off-axis warning and maximize the LED light source to eliminate dark spots and distribute 360-degrees of light coverage.



**SLR (Solaris® LED Rotator)** maximizes the LED light source for full light coverage. The SLR rotates the Solaris LED reflector providing superior LED warning light output.



**FS Convergence Network** provides "plug-n-play" installation with Federal Signal's SmartSiren® Platinum, amplifier and controller, to our family of serial communication light bars and SpectraLux ILS interior lighting system.



**ROC (Reliable Onboard Circuitry...) technology** eliminates approximately 85% of the connection failure points found in a typical light bar. Wires, connections and assemblies are replaced by PCB assemblies — reducing labor repair time and increasing the road time for emergency vehicles.



**FSLink™** is a built-in software technology that allows LED perimeter lights, interior lights and beacons to synchronize their flash patterns for a unified vehicle warning solution.

Phone: (800) 824-0254  
Fax: (800) 787-6237  
E-mail: [amberorders@fedsig.com](mailto:amberorders@fedsig.com)  
[www.fedsig.com](http://www.fedsig.com)

2645 Federal Signal Drive  
University Park, IL 60484