

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.

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



LIGHTBARS

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

MINI-LIGHTBARS

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



BEACONS

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



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



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



DIRECTIONAL WARNING

Latitude™ SignalMaster™

**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



Escape 72" SignalMaster™



- (8) 6x4 QuadraFlare® LED reflectors
- (12) high-powered LEDs in each QuadraFlare reflector
- Available with Amber or Clear domes
- Compatible with Federal Signal's SignalMaster controllers

5 YEAR WARRANTY

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



PERIMETER LIGHTS

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



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 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

3 YEAR
WARRANTY



- 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

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



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
- 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

- LED flashing warning light and SignalMaster™ models suitable for both interior and exterior applications
- Flashing models available in 4-head, 6-head, or 8-head
- SignalMaster™ models are available in 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



Latitude™

**5** YEAR WARRANTY

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



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.

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.



HOTFOOT® lighted mounting feet provide additional light through powerful Solaris LED reflectors that are built into the mounting system of the light bar.



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
www.fedsig.com

2645 Federal Signal Drive
University Park, IL 60484