FEDERAL SIGNAL

LIGHTBARS

MINI-LIGHTBARS

AREA LIGHTING

BACK-UP ALARMS

CAMERA SYSTEMS

DIRECTIONAL WARNING

PERIMETER LIGHTING

TOW & RECOVERY PRODUCTS

Federal Signal is the **Driving Force** of industry solutions for municipal, utility, tow and recovery and DOT vehicles. Our Amber products offer customers solutions to improve work zone safety everyday. From beacons to lightbars, controllers and back-up cameras—we work with you to provide solutions to fit your needs and meet the demands of your ever changing work environments.

THE
DRIVING
FORCE

Federal Signal brings together revolutionary technologies to create a SAFER, SIMPLER and SMARTER warning system.

Solaris® LED Reflector Technology

Federal Signal's Solaris® LED reflector design is engineered to significantly increase off-axis warning. The high-efficiency Solaris reflector maximizes the LED light source to eliminate dark spots and distribute 360-degrees of light coverage.

ROC (Reliable Onboard Circuitry™) Technology

Federal Signal introduced a breakthrough in lightbar construction with the revolutionary ROC (Reliable Onboard Circuitry™) technology. ROC is manufactured to eliminate approximately 85% of the connection failure points found in a typical lightbar assembly. Wires, connections and assemblies have been replaced by PCB assemblies — reducing labor repair time and increasing the road time for emergency vehicles.

FS Convergence Network

The FS Convergence Network provides "plug-n-play" installation from Federal Signal's SmartSiren® Platinum, amplifier and controller, to our family of serial communication lightbars and the Interior Lighting System (ILS).

SpectraLux™ Multicolor LED Technology

Exclusive to Federal Signal, SpectraLux™ multicolor LED technology provides the ability for a lighthead to change color while in operation. SpectraLux is available in Vision SLR and Valor lightbars and the IMPAXX6 exterior light.

SLR (Solaris® LED Rotator) Design

Federal Signal's Solaris SLR design significantly maximizes the LED light source for full light coverage. The SLR rotator in the SLR Beacon provides a superior LED rotating solution fit for any work truck to improve visibility and work zone safety.

Valor®

- SpectraLux™ multicolor LED technology available
- Federal Signal patented ROC (Reliable Onboard Circuitry™), technology eliminates approximately 85% of the potential failure points in a typical lightbar
- Newly optimized Solaris® LED lights maximize warning signals at 360-degrees and 90-degrees off-axis
- Six-button controller for ease of installation and lightbar control
- Available in 44" and 51" lengths

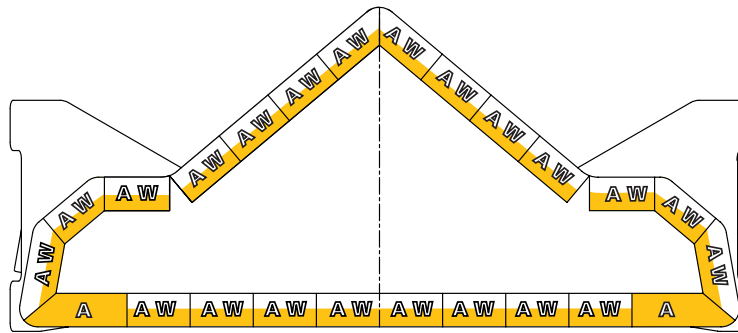CLASS 1 | Online Lightbar Configurator | CONVERGENCE network | ROC RELIABLE ONBOARD CIRCUITRY | SOLARIS | SpectraLux

| MODEL	DESCRIPTION
	44" model with 6-button controller
VALR44S-AMBR3	44", (22) Amber/White LED reflectors, (2) Amber LED reflectors, SignalMaster, full-flood feature
	51" model with 6-button controller
VALR51S-AMBR3	51", (24) Amber/White LED reflectors, (4) Amber LED reflectors, SignalMaster, full-flood feature

For a custom lightbar, configure a model on the Federal Signal lightbar configurator at www.fedsig.com or contact customer service at (800) 264-3578.

Six-button controller

VALR44S-AMBR3
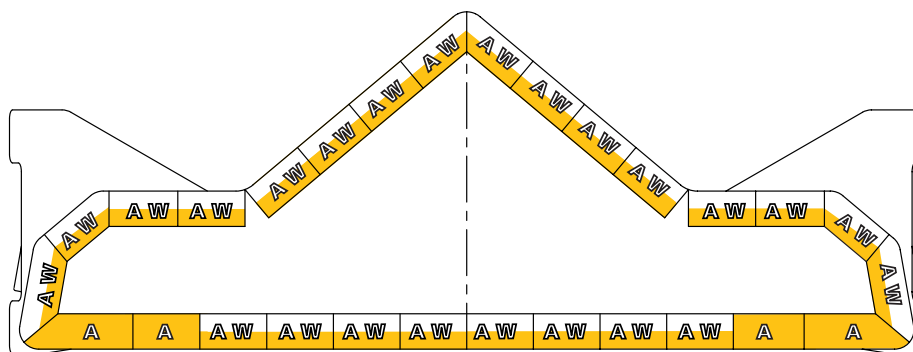
VALR51S-AMBR3

Legend LPX Discrete

- Discrete-Traditional 9-conductor cable lightbar
- Federal Signal patent pending ROC (Reliable Onboard Circuitry™) technology eliminates approximately 85% of the potential failure points in a typical lightbar
- Newly optimized Solaris® LED reflectors maximize warning signals at 360-degrees and 90-degrees off-axis
- All-LED lightbar with (10) selectable flash patterns
- Front and rear of the bar can be independently controlled
- Available in 24", 45", 53", 61" and 70" lengths

MODEL	DESCRIPTION
	24"— Traditional Cable, flat mount
LPX24D-00001	Clear/Clear (4) Amber corner LED reflectors, (4) Amber 5"LED reflectors, (2) Amber 2" LED reflectors
	53"— Traditional Cable, flat mount
LPX53D-00001	Clear/Clear/Clear, (4) Amber corner LED reflectors, (2) LED work lights, (2) LED S/T/T lights
	61" — Traditional Cable, flat mount
LPX61D-00005	Clear/Clear/Clear/Clear, (4) Amber 5″ LED reflectors, (4) Amber 4″ LED reflectors, (4) Amber corner LED reflectors, (2) LED work lights, (2) LED S/T/T lights
LPX61D-00017	Clear/Clear/Clear/Clear, (4) Amber corner LED reflectors, (8) Amber 5" LED reflectors, (8) Amber 4"LED reflectors, (2) Amber 2"LED reflectors, (2) LED work lights, (2) LED S/T/T lights
	70" — Traditional Cable, flat mount
LPX70D-00003	Clear/Clear/Clear/Clear/Clear, (2) LED S/T/T lights, (2) LED work lights, (8) Amber 5" LED reflectors, (10) Amber 4" LED reflectors, (4) Amber corner LED reflectors, (2) Amber 2" LED reflectors
	Center Section Upgrade Kit (see below)
LPXUPK-A-001	(8) Amber 4" LED reflectors upgrade kit without flasher
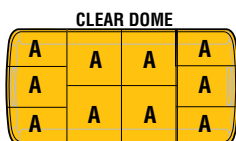
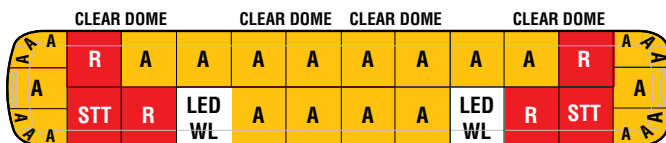LPX24D-00001
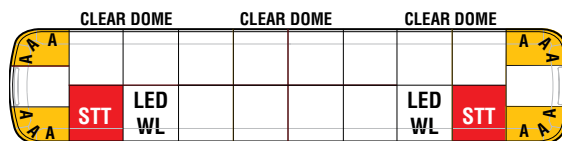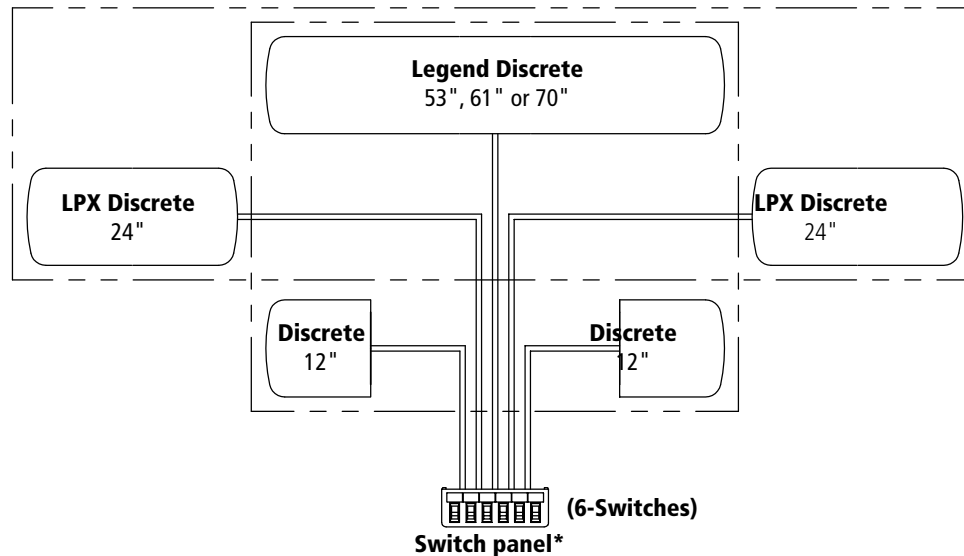
LPX53D-00001
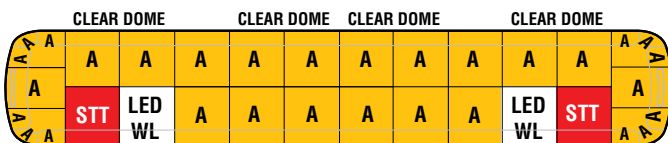
LPX61D-00017

LPX61D-00005

LPX70D-00003

Center Section Upgrade Kits:
Additional lighting, center sections
with 1, 2, 3, or 4 heads can be added

Easy to install while bar is on
the vehicle

Legend® Discrete — Systems Options

Incorporate 24" or 12" wing lights to your trucks lighting system with ease for added visual warning.

Legend Discrete
53", 61" or 70"

LPX Discrete
24"

LPX Discrete
24"

Discrete
12"

Discrete
12"

(6-Switches)
Switch panel*

Choose one of the popular models listed, customize our own lightbar with our online configurator or contact your local Federal Signal representative or distributor.

*Note: See page 13 for Switch Panels**

12" Legend® Wing Lights

- Optimized Solaris® LED reflector maximizes warning lights at 360-degrees and 90-degrees off-axis
- Patented ROC (Reliable Onboard Circuitry™) eliminates approximately 85% of the potential failure points in a typical lightbar
- Built-in flasher model includes (10) selectable flash patterns 20-ft traditional cable
- Five-year LED product warranty

CLASS 1　ROC RELIABLE ONBOARD CIRCUITRY　SOLARIS

MODEL	DESCRIPTION
	12" Legend Sets
LGD12Z-00001	Clear, (2) Amber corner LED reflectors, (2) Amber 5" LED reflectors, (1) Amber 2" reflector, built-in flasher, set
LGD12Z-00002	Clear, (2) Amber corner LED reflectors, (2) Amber 5" LED reflectors, (1) Amber 2" reflector, set

Note: See page 13 for switch panel options

Legend® LPX

- FS Convergence Network, serial lightbar
- Federal Signal patent pending ROC (Reliable Onboard Circuitry™) technology eliminates approximately 85% of the potential failure points in a typical lightbar
- Newly optimized Solaris® LED reflectors maximize warning signals at 360-degrees and 90-degrees off-axis
- Available in 45", 53" and 61" lengths

CLASS 1   Online Lightbar Configurator   ROC RELIABLE ONBOARD CIRCUITRY   SOLARIS

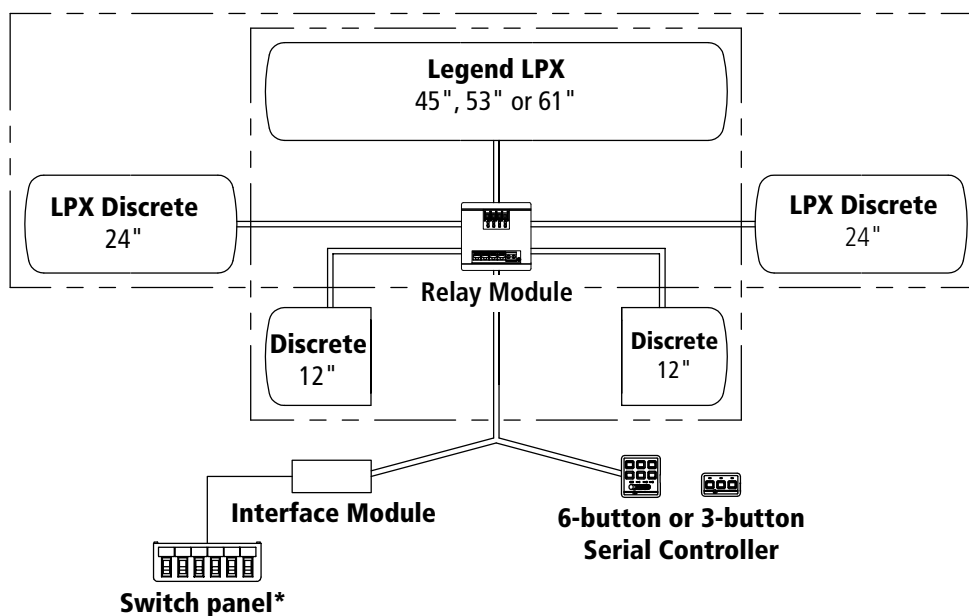| MODEL	DESCRIPTION
	53" Model with 6-Button Controller
LPX53Z-00041	Clear/Clear/Clear, (8) Amber 5" LED reflectors, (4) Amber 4" LED reflectors, (4) Amber corner LED reflectors, (2) Amber LED reflectors, (2) LED work lights, (2) LED S/T/T lights
	61" Model with 6-Button Controller
LPX61Z-00007	Clear/Clear/Clear/Clear, (4) Amber corner LED reflectors, (12) Amber 5" LED reflectors, (8) Amber 4" LED reflectors, (2) Amber 2" LED reflectors
LPX61Z-00008	Clear/Clear/Clear/Clear, (4) Amber corner LED reflectors, (8) Amber 5" LED reflectors, (8) Amber 4" LED reflectors, (2) Amber 2" LED reflectors, (2) LED work lights, (2) LED S/T/T lights
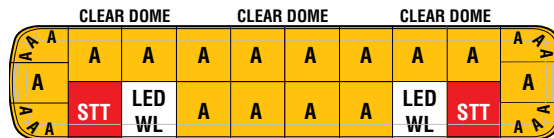
LPX53Z-00041
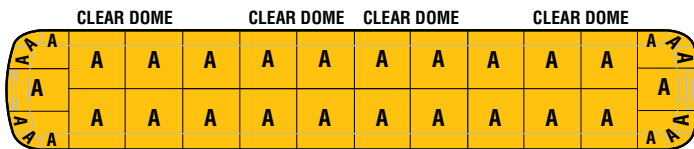
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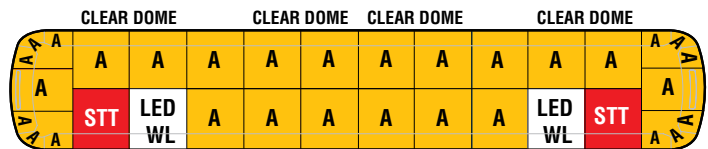
LPX61Z-00008

Legend™ LPX — System Options

Incorporate 24" or 12" wing lights to your trucks lighting system with ease for added visual warning.

Legend LPX
45", 53" or 61"

LPX Discrete
24"

LPX Discrete
24"

Relay Module

Discrete
12"

Discrete
12"

Interface Module

6-button or 3-button Serial Controller

Switch panel*

Choose one of the popular models listed, customize our own lightbar with our online configurator or contact your local Federal Signal representative or distributor.

*Note: See page 13 for Switch Panels**

Relay Module

- Works in conjunction with the 3- or 6-button controllers
- Customize complete warning packages with any serial communication lightbar platform and a variety of lightheads
- Built-in 2-channel flasher with alternating flash patterns
- (4) relay outputs - (2) 10-Amp and (2) 15-Amp (not to exceed 40-Amp)

MODEL	DESCRIPTION
660100	RS485 Relay Module

Six and Three Button Controller

660300

660000

- Model 660300 features (3) illuminated push-button switches with (9) pre-programmed keypad configurations
- Model 660000 features (6) illuminated push-button switches and a (4) position slide switch with (18) pre-programmed keypad configurations
- Quick and easy install with Federal Signal's Convergence Network which provides "plug-n-play" installation and programming

JetSolaris® LED

- Classic aerodynamic profile provides outstanding warning and limits drag
- Available in 21", 48", 54", 60" and 72" lengths
- All models feature Solaris® LED reflector technology
- 26 selectable flash patterns
- Five-year LED product warranty

CLASS 1 | Online Lightbar Configurator | ROC | SOLARIS

MODEL	DESCRIPTION
	60" Model with Traditional Cable
JLX6003C-HD	Clear/Clear/Clear/Clear/Clear, (10) Amber LED modules, (2) halogen work lights, (2) Red LED STT light modules, flat mount
JLX6005C-HD	Clear/Clear/Clear/Clear/Clear, (13) Amber LED modules, (2) halogen work lights, (2) Red LED STT light modules, flat mount
	72" Model with Traditional Cable
JLX72LLL-00003	Clear/Clear/Clear/Clear/Clear/Clear/Clear, (18) Amber 6-LED reflectors, (4) Amber 3-LED reflectors, LED S/T/T lights, work lights
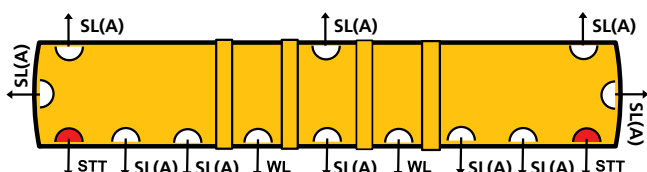
JLX6003-HD (Amber domes)
JLX6003C-HD (Clear domes)
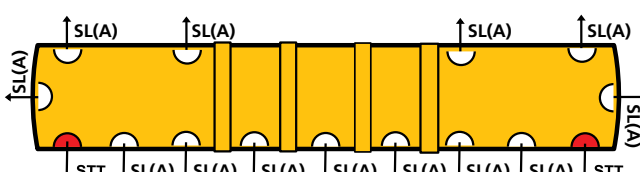
JLX6005-HD (Amber domes)
JLX6005C-HD (Clear domes)

JetStream® LED

- Ten user selectable flash patterns
- Mode function allows switching between primary and secondary flash patterns
- Allows for upgrade of additional LED modules
- "T-slot/hardware entry hole" for ease of installation
- Five-year LED product warranty

CLASS 1

MODEL	DESCRIPTION
	54" Models — Flat mount included
JLL5403-SB	Amber/Amber/Amber/Amber, (12) Amber LED modules, (2) work lights, (2) LED STT light
JLL5403-CSB	Clear/Clear/Clear/Clear/Clear, (12) Amber LED modules, (2) work lights, (2) LED STT light
	60" Model — Flat mount included
JLL6003-CSB	Clear/Clear/Clear/Clear/Clear, (12) Amber LED modules, , (2) work lights, (2) LED STT light
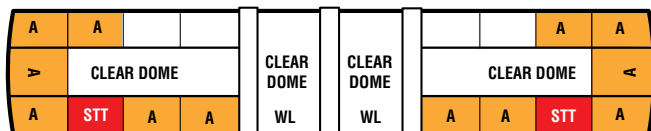
JLL5403-CSB
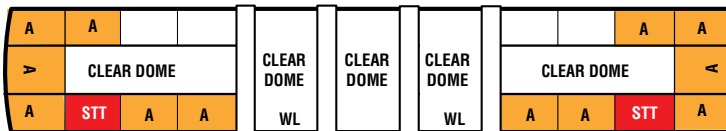
JLL6003-CSB

9x7 QuadraFlare® LED

- Advanced Solaris® LED reflector in a 9x7 package
- Available with built-in flasher featuring a variety of OEM friendly selectable patterns
- LEDs offered in Amber, Blue, Green, Red, or White
- Optional chrome-plated trim bezel available
- Five-year LED warranty

CLASS 1   SOLARIS

MODEL	DESCRIPTION
	9x7 Warning lights with color lens and built-in flasher
QL97XF-(color)	Amber, Blue, or Red
	9x7 Split-LED Warning lights with color lens and built-in flasher
QL73SF-AA	Amber/Amber
	9x7 Split-LED Warning lights with Clear lens and built-in flasher
QL97SFC-AA	Amber / Amber
QL97SFC-AC	Amber/Clear
	Mounting Option
QL73MC	Trim bezel, Chrome with gasket

7x3 QuadraFlare® LED

- Advanced Solaris® LED reflector in a 7x3 package
- Available with built-in flasher featuring a variety of OEM friendly selectable patterns
- LEDs offered in Amber, Blue, Green, Red, or White
- Optional chrome-plated trim bezel available
- Five-year LED warranty

CLASS 1   SOLARIS

MODEL	DESCRIPTION
	Color lens and built-in flasher
QL73XF-(color)	Amber, Blue or Red
	Split-LED warning lights with Color lens and built-in flasher
QL73SF-AA	Amber/Amber
	Split-LED warning lights with Clear lens and built-in flasher
QL73SFC-AC	Amber/Clear
	Mounting Option
QL73MC	Trim bezel, Chrome with gasket

6x4 QuadraFlare® LED

- Advanced Solaris® LED reflector technology in an industry standard 6x4 shape
- Built-in flasher featuring a variety of selectable patterns
- Optional chrome-plated trim bezel available
- LEDs offered in Amber, Blue, Green, Red, or White
- Five-year LED warranty

CLASS 1   SOLARIS

MODEL	DESCRIPTION
	Color lens and built-in flasher
QL64XF-(color)	Amber, Blue, or Red
QL64XF-C	Clear
	Clear lens and built-in flasher
QL64XFC-(color)	Amber, Blue, or Red
QL64XF-C	White
	Split-LED warning lights with color lens and built-in flasher
QL64SF-AA	Amber / Amber
	Split-LED warning lights with Clear lens and built-in flasher
QL64SFC-(Color/Color)	Combinations of Amber / Blue /Red
QL64SFC-(Color/Color)	Combinations of Amber / Blue / Red with Green / White
	Mounting Option
QL64MC	Trim bezel, Chrome with gasket

IPX6 IMPAXX®

- SpectraLux™ multicolor LED technology
- High-output Solaris® LED reflector technology
- Wide angle lens for better off-axis warning and center focused lenses available
- Dimensions: 5.5"(L) x 2.0"(H) x 1.5"(D) (with bezel); 4.1"(L) x 1.4"(H) x 1.4"(D) (without bezel)
- Five-year LED warranty

CLASS 1   SOLARIS   SpectraLuX

MODEL	DESCRIPTION
IPX600-A	(6) Amber LEDs, Clear lens, off-axis, horizontal
IPX600-W	(6) White LEDs, Clear lens, off-axis, horizontal
IPX602-A	(6) Amber LEDs, Amber lens, off-axis, vertical
IPX603-A	(6) Amber LEDs, Clear lens, off-axis, vertical
IPX603-W	(6) Amber LEDs, Clear lens, off-axis, vertical
IPX604-A	(6) Amber LEDs, Amber lens, off-axis, vertical
IPX620-WA	(12) Amber/White LEDs, Clear lens, off-axis, horizontal

IPX3 IMPAXX®

- High-output Solaris® LED reflector technology
- Fully encapsulated waterproof housing
- Wide angle lens for better off-axis warning
- Dimensions: 3.5"(L) x 1.4"(H) x 1.2"(D) (with bezel); 2.9"(L) x 1.3"(H) x 1.2"(D) (without bezel)
- Five-year LED warranty

CLASS 2 Amber lights only   SOLARIS

MODEL	DESCRIPTION
	Clear lens, advanced off-axis lens
IPX300-2	Amber, (3) high-output LEDs
	Clear lens, center focused lens
IPX310-2	Amber, (3) high-output LEDs
	Colored lens, advanced off-axis lens
IPX302-2	Amber, (3) high-output LEDs
	Clear lens, center focused light output
IPX312-2	Amber, (3) high-output LEDs

MicroPulse™

- Super warning with (3) or (6) high-powered LEDs
- Low-profile design offers a wide range of mounting locations
- (12) selectable flash patterns in MicroPulse 3 and (19) in MicroPulse 6
- Dimensions: MicroPulse 6, 5.0"(L) x 1.1"(H) x 0.7"(D) (surface mount);
                    MicroPulse 3, 3.4"(L) x 1.1"(H) x 0.7"(D) (surface mount)
- Three-year LED warranty

CLASS 1   **CLASS 2**

MODEL	DESCRIPTION
	MicroPulse 6 (Class 1), Surface mount, 12-24 VDC
MPS600-AA	6-LED lighthead, Amber/Amber, 12-24 VDC
MPS600-WW	6-LED lighthead, White/White, 12-24 VDC
	MicroPulse 3 (Class 2), Surface mount, 12-24 VDC
MPS300-A	3-LED lighthead, Amber, 12-24 VDC
MPS300-W	3-LED lighthead, White, 12-24 VDC

Viper® EXT

- High-output Solaris® LED reflector technology
- Fully encapsulated waterproof housing
- Wide angle lens for better off-axis warning
- Dimensions: 5.7"(L) x 2.4"(H) x 1.5"(D) (with bezel);
  4.5"(L) x 1.9"(H) x 1.5"(D) (without bezel)
- Models come standard with Black bezel
- Five-year LED warranty

CLASS 1   SOLARIS

MODEL	DESCRIPTION
	Clear off-axis lens
VPX800-2	Amber, (8) high powered LEDs
350172-25	Amber, (8) prime output LEDs, 6" oval grommet mounting plate
	Colored off-axis lens
VPX802-2	Amber, (8) high powered LEDs
350172-02	Amber, (8) prime output LEDs, 6" oval grommet mounting plate

SignalTech LED

- Reflector cell technology enhances brightness and reduces sunlight washout
- All models operate at 12 VDC
- Sealed wiring harness
- Random, alternating or synchronized flash patterns
- Three-year LED warranty

CLASS 1

MODEL	DESCRIPTION
Kits include LED light, rubber mounting grommet, sealed wire harness	
	4" Round LED Light Kits
607124-05	LED back-up light, 12-24V, White
607141-04	LED Stop/Tail/Turn light, 12V only, Red
607141-05	LED Stop/Tail/Turn light, 12V only, White
	6" Oval LED Light Kits
607106-02	LED turn light, 12-24V, Amber
607125-05	LED back-up light, 12-24V, White
607142-04	LED Stop/Tail/Turn light, 12V only, Red

In-line Corner LED Systems

- Built-in 19 selectable flash patterns
- Multiple units can be synchronized and can flash simultaneously
- Maintenance-free
- Low-profile design

MODEL	DESCRIPTION
416200-22	Amber/Amber, (2) LED heads with in-line flasher
416200-44	Red/Red, (2) LED heads with in-line flasher
416200-55	Clear/Clear, (2) LED heads with in-line flasher
	Extension Cables
416200-EXT-LED	4' extension cable for LED lighthead kit

SignalMaster™

- Integrated L-bracket control to activate three warning patterns: left, right and flashing warning
- STT override provides auxiliary warning when unit is not in use

CAC Title 13

MODEL	DESCRIPTION
	51" Model with 35' Cable
321112	Amber, (8) lamp SignalMaster with controller

SignalMaster™ Plus

- Individuall sealed LED modules with wide-angle lens
- Sturdy aluminum extrusion
- Internal or external mounting applications

CLASS 2

MODEL	DESCRIPTION
SMLED-PLS-6	28", (6) LED modules, 30 ft cable, Clear lens, Amber LEDs
SMLED-PLS-8	37", (8) LED modules, 50 ft cable, Clear lens, Amber LEDs

SignalMaster™ Controllers

- Installer selectable flash patterns
- Tactile membrane keypad
- Three-year warranty

330104   **331105**

MODEL	DESCRIPTION
330104	SMC1 basic directional light controller, (7) built-in warning patterns
331105	SMC5 full-featured directional light controller, (14) built-in warning patterns (with STT overrride feature)

SignalMaster Mounting Brackets — for use with any SignalMaster model

320310	Kit, bracket, flush mount system
320330	Kit, bracket, system mount
320350	Kit, bracket, foot adaptor

| 320320 | Kit, bracket, double "L" Mount |
| 320340 | Kit, bracket, universal vehicle mount |

VisiBeam® II

- Operated by handheld remote control with an indicator light to show when the spotlight is in use
- Adjusts 105-degrees up and 35-degrees down from horizontal and rotates a full 360-degrees
- "Gradual start" enables pinpoint placement of light beam
- Velcro and "snap holder" mount included to mount control when not in use

MODEL	DESCRIPTION
	Permanent Mount
620122	12 VDC, 100W

2012 Series Alarms

- Available in 87 dB(A), 97 dB(A) and 102 dB(A) models with wires or stud terminals
- Meets SAE J994, CE, OSHA and MSHA requirements
- Built-in universal mounting bracket and self-grounding strap (-S models) eases installation
- Alarms operate at 12/24 VDC, drawing only 0.1 Amps

210238-W

210238-S

MODEL	DESCRIPTION
210238-S	87 dB(A), stud terminals, SAE J994 Class D
210239-S	97 dB(A), stud terminals, SAE J994 Class C
210240-S	102 dB(A), stud terminals, SAE J994 Type F

Evacuator®

- Meets SAE J994, OSHA and MSHA requirements
- Wide range of decibel levels and operating voltages is offered for enhanced application flexibility
- Universal mounting bracket included
- Maximum current draw of 0.15 Amps

210331

MODEL	DESCRIPTION
210331	97 dB(A), 12-48 VDC, Type C, nickel plated threaded terminals
210333	107 dB(A), 12-48 VDC, Type B, nickel plated threaded terminals

Mobile Camera Systems

CAMSET56-NTSC-2

CAMSET70-NTSC4B

Mobile Camera Systems

- 5.6" or 7.0" TFT color LCD monitor
- Automatic triggering through individual camera trigger wires
- Easy to install with minimal connections
- Two-year limited warranty

MODEL	DESCRIPTION
CAMSET56-NTSC-2	5.6" Monitor with two-camera input, (1) standard rear-view camera, (1) 65.5-ft extension cable
CAMSET70-NTSC-4B	7.0" Monitor with four-camera input, (1) standard rear-view camera, (1) 65.5-ft extension cable, split-screen capability

Switch Boxes

- Switching of up to seven auxiliary functions
- Easy installation
- Three-year warranty

SW200-012

SW300-012

MODEL	DESCRIPTION
	"SW" Switch Control Panel Models
SW200-012	SW200 Series, (4) 20 Amp fused switches
SW300-012	SW300 Series, (1) 40 Amp and (5) 20 Amp fused switches

Relay Module

- Works in conjunction with the 3- or 6-button controllers
- Customize complete warning packages with any serial communication lightbar platform and a variety of lightheads
- Built-in 2-channel flasher with alternating flash patterns
- (4) relay outputs - (2) 10-Amp and (2) 15-Amp (not to exceed 40-Amp)

MODEL	DESCRIPTION
660100	RS485 Relay Module

UltraStar LED

- LED UltraStar provides superior optics for maximized light output
- Die-cast aluminum base
- Ten selectable "strobing" patterns
- Industry standard mounting for quick and easy retrofits
- Meets SAE J845 Class 1 (SAE J1318 Class 1, 2009)
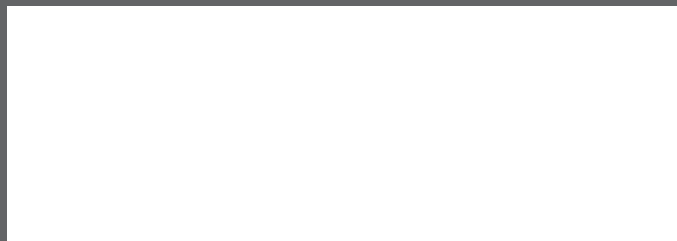- Five year LED warranty

CLASS 1

MODEL	DESCRIPTION
	Models with permanent/pipe mount
252650-02SB	Amber LEDs with Amber dome
	Models with magnet mount and cigarette plug
252651-02SB	Amber LEDs with Amber dome

www.fedsig.com

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