

WHELEN[®]

Mining

Professional
Warning &
Illumination



All Whelen lenses & domes are hard-coated to minimize environmental damage from dust, sun, salt and road chemicals

Table Of Contents

Lightheads	1-8
Pioneer LiFe™	9
Spot/Floodlights	10-15
Mini Lightbars	16-18
Lightbar	19
Beacons	20-24
Sirens & Speakers	25-26
Mass Notification	27



The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

History of Whelen Engineering Company, Inc.

1952-1978



1952 George W. Whelen invents the first rotating aircraft "anti-collision" beacon in his garage in Deep River, Connecticut.



1956 The Rota-Beam™, a rotating magnetic mounted automotive beacon is developed for use by Police, Public Works and Fire departments.

1963 Whelen becomes the first in the industry to utilize strobe light technology.

1968 Whelen moves from the garage workshop on Kirtland Street to a facility on Winter Avenue in Deep River.



1975 Whelen releases its first fully enclosed lightbar, the 6000 Series.



1978 The 8000 Series, a strobe enclosed crossbar, is released.

1983-1998



1983 Whelen introduces the low profile Edge 9000®, the first fully enclosed lightbar with an aluminum I-Beam construction.

1984 Whelen moves from Deep River, Connecticut to its current Corporate Headquarters in Chester, Connecticut.

1987 A second manufacturing plant is added in Charlestown, New Hampshire.

1988 Transformer winding is introduced, using automated winding machines in order to increase part supply.

The tool and die machine shop begins as a servicing shop for parts before they are run in molding. Today, 90% of all molding tools are made in-house from raw steel.

1991 The New Hampshire plant expands to house plastic injection molding equipment, which manufactures all plastic parts, from optical grade polycarbonate to thermally conductive composites.



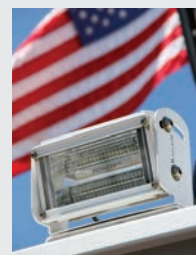
1998 FastTrax™, a lightbar designed to fit the contours of the Pontiac Grand Prix pace car, is released for the 50th anniversary of NASCAR.

2000 Whelen introduces the Liberty™, the first all LED lightbar.



2003 Whelen implements surface mount technology, in which electric components are deposited on PCB utilizing robotic nozzles. All testing and programming of PCB is done in a continuous automated line.

2004 Whelen develops the Pioneer™ all LED floodlight for Fire Truck and Ambulance applications.



2005 Whelen becomes the entitlement sponsor of the NASCAR® Whelen Modified Tour and the NASCAR Whelen Southern Modified Tour. Whelen also begins sponsorship as the Official Warning Lights of NASCAR.



2007 Sheet metal fabrication is implemented, utilizing lasers to create brackets and a wide variety of metal components used in almost every Whelen product. A 5 axis laser is used to cut complex metal parts that do not come in a flat sheet.

Whelen becomes the entitlement sponsor of the NASCAR Whelen All American Series.

2008 Powder coating technology is implemented, which uses an automated line including washing, drying, applying powder, and oven baking.

2000-2008

2011 The production machine shop opens, housing 26 machines, 5 axis mills, lathes with live tooling, and screw machines. Parts made from raw housing or machined casting go into many finished products.

Hard coating technology develops, which utilizes an automated line where UV, abrasion, and chemical resistant coating is applied to all plastic lensing.

2012 Vacuum metalizing technology develops. Within a sealed chamber, all reflectors are coated with a thin layer of pure vaporized aluminum. Bringing this process in-house yields a 10% increase in light output due to improved surface quality and purity.

2012 Silicone molding is implemented. Still a liquid injected molding process, silicone allows for use of parts that need to be flexible and water resistant. This material is often utilized to make a watertight seal in an assembly.

2013 The next generation Rota-Beam is released.

Whelen becomes the entitlement sponsor of the NASCAR Whelen Euro Series.



2014 Whelen opens the only environmentally friendly printed circuit board manufacturing facility in North America with zero hazardous emissions.

Whelen enters the Off-Road market with the Continuum™ Super-LED lightbar.



2015 Action Express Racing fields the No. 31 Whelen Corvette Daytona Prototype in the 2015 IMSA TUDOR United SportsCar Championship season.



2011-2016

Lightheads

M2 & M4 Series

- Patented Linear-LED® designed reflector assembly
- Hard-coated lenses minimize environmental damage from sand, sun, salt and road chemicals
- Surface mounted via two screws allows for easy installation
- Lens and reflector are a sealed assembly
- Built-in flasher models are synchronizable
- Choose solid, left/right, top/bottom, in/out, or diagonal sequencing
- Meets KKK 1822F, NFPA 1901, SAE, EC65 specifications
- Includes California Title XIII compliant flash patterns
- Five year warranty



M2A



M4A

Model	Optics	Colors	Lens	VDC	Flasher	Patterns	Amps	Cert	Size
M2A	Directional warning	A, W	Color	12	Built-in	129 Scan-Lock™ including steady-burn	1.0 / Peak 0.40 / Average	B (R/A/B) C,D (R/A/B)	2-1/2" (64mm) H x 1" (25mm) D x 4" (102mm) L
M2A24				24			-		
M4A				12		125 Scan-Lock	1.5 / Peak 0.60 / Average	B (A/B/W) C,D (R/A/B)(R/A/B)	
M4A24				24			0.80 / Peak		

OPTIONS

Option	Description
M2FB	Flange, Black
M4BRUSH	Brush guard, Black
M4FB	Flange, Black



M4BRUSH

Lightheds

M6 & M9 Series

- Available in warning and warning with perimeter or scenelight models
- Patented Linear-LED® designed reflector assembly
- Hard-coated lenses minimize environmental damage from sand, sun, salt and road chemicals
- Surface mounted via two screws allows for easy installation
- Built-in flasher models are synchronizable
- Choose solid, left/right, top/bottom, in/out, or diagonal sequencing
- Meets KKK 1822F, NFPA 1901, SAE, and EC65 specifications
- Includes California Title XIII compliant flash patterns
- Five year warranty



Model	Optics	Colors	Lens	VDC	Flasher	Patterns	Amps	Cert	Size
M6A	Directional warning	A, R	Color	12	Built-in	159 Scan-Lock™	2.25 / Peak 0.90 / Average	B (R/B) C (R/A/B)	4-5/16" (109mm) H x 1-3/8" (35mm) D x 6-3/4" (170mm) L
M6A24							1.2 / Peak		
M9R24							1.5 / Peak 0.65 / Average		
M9R				12			3.0 / Peak 1.2 / Average	B (R/B) C (R/A/B) D	6-1/2" (165mm) H x 1-3/8" (35mm) D x 10-3/8" (263mm) L
M9A									
M9A24									
M9V2A	Directional warning and scenelight	R	Color for warning, Clear for illumination	12	Warning: 25 Scan-Lock	Warning: 2.4 / Peak 0.96 / Average Scenelight: 2.4 amps	B (A/B/B) C (A/B/R/W) D (A/B/R/W)	6-1/2" (165mm) H x 2-5/8" (66mm) D x 10-3/8" (263mm) L	
M6BTT24									
M6BUW24	Back-Up	W	Clear		Steady	1.6 / Average	N	4-5/16" (109mm) H x 1-3/8" (35mm) D x 6-3/4" (170mm) L	

OPTIONS

Option	Description
M6BRUSH	Brush guard, Black
M9BRUSH	Brush guard, Black



M9BRUSH



M6BRUSH

Lightheds

Vertex™ Super-LED® Series

- Self-contained light with in-line lamp driver
- Designed to mount in composite style headlight or taillight, or surface mount to exterior surfaces with flange mount option
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Clear outer lens, color LEDs
- Five year warranty



VTX609C with



VTX609A with

Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cert	Size
VTX609C	Omni-directional	Super-LED	Headlight or taillight, surface	A, W	12	25 Scan-Lock™	.750 / Peak	D	1" (26mm) H x 1-5/8" (41mm) Dia.
VTX609A							.30 / Average		
VTX609A4							.375 / Peak .150 / Average		

OPTION

Option	Description
VTXFB	Flange, Black

Super-LED Scenelight

- Super-LED surface mounts are instant on with no warm-up time
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- 900 Series lightheds are certified to meet KKK 1822-F requirements and AMD 024 Standard
- Five year warranty



7SC0ENZR



9SC0ENZR

Model	Series	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Size
7SC0ENZR	700	Super-LED	Surface, includes Chrome flange	W	24	Steady	0.38 / Average	6" pigtail	7-1/4" (184mm) L x 3-1/16" (78mm) H x 1-1/16" (27mm) D
9SC0ENZR	900				12		6.0 / Average		7-1/8" (181mm) H x 1-3/4" (44mm) D x 9-1/8" (232mm) L
9SU0ENZR					24		3.0 / Average		8" (203mm) L x 1-1/2" (38mm) D x 3-1/2" (89mm) H

Lighthead

Micron™ Series

- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Integrate with other Whelen products through synchronize feature
- Five year warranty



MCRNSA

Model	Technology	Mount	Color	Housing	VDC	Patterns	Amps	Cable	Size
MCRNSA	Linear Super-LED	Surface	A	Black	12	25 Scan-Lock™	0.6	6" pigtail	7/8" (23mm) H x 7/8" (23mm) D x 4" (102mm) L
MCRNSA4					24		0.300		

ION™ Series

- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Integrate with other Whelen products through synchronize feature
- Five year warranty



WIONSMA

Model	Optics	Technology	Mount	Color	Housing	VDC	Patterns	Amps	Cable	Size
WIONSMA	Wide-angle warning	Super-LED	Surface, includes flange	A	Black	12	25 Scan-Lock	1.0 / Peak 0.40 / Average	6" pigtail	1-11/16" (43mm) H x 1-1/8" (28mm) D x 5-15/16" (150mm) L
WIONSMA4						24		0.50 / Peak 0.20 / Average		

LINZ6™ Series

- Includes Black polycarbonate mounting flange
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Integrate with other Whelen products through synchronize feature
- Includes steady-burn, alternating, and simultaneous patterns
- Split LINZ6 will alternate or simultaneous flash each color segment (3x3)
- Five year warranty



LINZ6A

Model	Optics	Technology	Mount	Color	Encapsulated	VDC	Patterns	Amps	Cable	Size
LINZ6A	Directional Warning	LINZ6 Super-LED	Horizontal, surface	A	Yes	12	25 Scan-Lock	0.75 / Peak 0.30 / Average	6" pigtail	7/8" (23mm) H x 7/8" (23mm) D x 4" (102mm) L
LINZ6A24						24		0.375 / Peak 0.150 / Average		

Lighthead

400 Series

- Available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Available with or without internal flasher
- Single level is surface mount
- Individual control of upper and lower level
- Requires LED flasher and optional mounting, purchased separately (not to be used as steady-burn light)
- Five year warranty

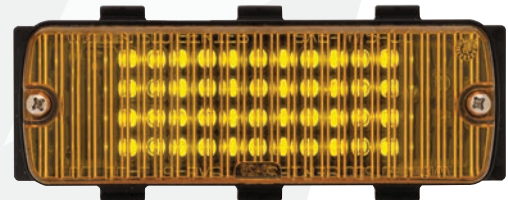


40AA5SCR

Model	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
40AA5SCR	Linear Super-LED®	Requires optional mounting	A	12	Requires optional flasher	1.8/ Peak 0.72 / Average	6" pigtail	C W	3-3/16" (77mm) H x 2" (50mm) D x 4-15/16" (124mm) L

500 Series

- Available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- LEDs are rated for thousands of hours of operation
- Polycarbonate construction
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Five year warranty



50S00FAR

Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
50S00FAR	Directional warning	5mm LED	Requires optional mounting	A	12	14 Scan-Lock™	.300 / Peak .120 / Average	6" pigtail	C D	1-13/16" (46mm) H x 7/8" (22mm) D x 5-3/16" (131mm) L
					24					

Lightheds

500 Series

- Requires optional mounting
- Solid color available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- LEDs are rated for thousands of hours of operation
- Vertical cab mount light includes Chrome flange (use one per side)
- Five year warranty



50A02ZAR

Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
50A02ZAR	Directional	Linear Super-LED®	Horizontal, requires optional mounting	A	12	25 Scan-Lock™	1.0 / Peak .40 / Average	6" pigtail	B (A/B) C (A/B) D (A/B)	1-5/8" (41mm) H x 1-3/4" (44mm) D x 5" (127mm) L
50S03ZAR		TIR6™ Super-LED			24		0.350 / Peak 0.140 / Average			

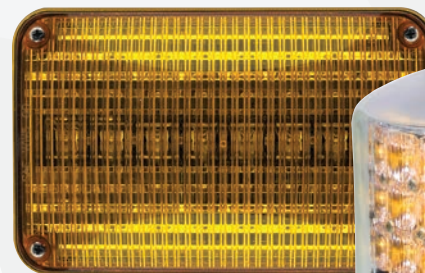
OPTIONS

Option	Description
5FLANGEB	Flange, Black
5GROMMET	Rubber grommet kit

600 Series



- Available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- NEW 600 Rota-Beam™ Super-LED oscillating light with no moving parts or motors. 100% solid-state with 180° light output
- Hi/Low power (not applicable to Rota-Beam)
- Five year warranty



60A02SAR



6RBA

Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
60A02SAR	Warning	Linear Super-LED	Surface	A	12	Requires optional flasher	1.40 / Peak .53 / Average	6" pigtail	B, C, D	4-1/8" (105mm) H x 2" (50mm) D x 6-1/2" (165mm) L
60S02FAR					24					
6RBA	Oscillating warning	Rota-Beam Super-LED		A	12	14 Scan-Lock	2.2 / Peak 1.1 / Average		W	4-3/16" (106mm) H x 3-7/16" (88mm) D x 6-9/16" (167mm) L

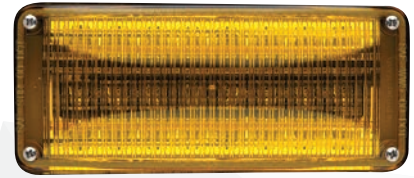
OPTIONS

Option	Description
6FLANGEB	Flange, Black

Lightheds

700 Series

- Available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Available with or without internal flasher
- Low power
- Five year warranty



70A02SAR

Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
70A02SAR	Directional, warning	Linear Super-LED®	Surface	A	12	Requires optional flasher	1.40 / Peak .53 / Avg	6" pigtail	B, C, D	3-1/16" (78mm) H x 1-1/4" (31mm) D x 7-1/4" (184mm) L
70S02FAR					24	14 Scan-Lock™	1.4 / Peak .53 / Average per side			

OPTIONS

Option	Description
7FLANGEB	Flange, Black

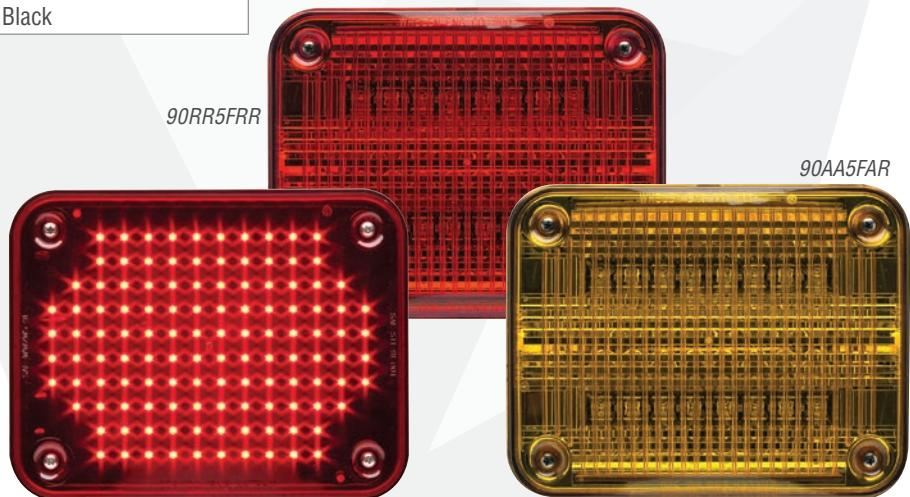
900 Series

- Largest surface mount with dual level LEDs
- Available with Clear or color lens
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Available with or without internal flasher
- Low power
- Five year warranty

90RR5FRR

90AA5FAR

90BTT



Model	Optics	Technology	Mount	Color	VDC	Patterns	Amps	Cable	Cert	Size
90AA5FAR	Directional, warning	Linear Super-LED	Surface	A	12	Requires optional flasher	2.8 / Peak 1 / Average	6" pigtail	B, C, D	7-1/8" (181mm) H x 1-3/8" (35mm) D x 9-1/8" (232mm) L
90RR5FRR				R		14 Scan-Lock steady-burn & Hi/Low				
90BTT4	B/T/T	Super-LED	R	24	Steady and SignalAlert™	0.70 / Brake 0.075 / Tail	A, B, C, W			
90BTT				12		375 / Brake 0.40 / Tail				

OPTIONS

Option	Description
90FLANGB	Flange, Black

Lighthead

Wing/Plow Series

- Fully encapsulated for vibration, moisture and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Two styles of Amber lighthead provide complete coverage whether snowplow wing is in the operation position or in the stowed travel position
- Five year warranty



WFLOWZ3A

Model	Usage	Technology	Patterns	VDC	Cable	Housing
WFLOWZ3A	Deployed/ Stowed	LINZ6™ SmartLED®	24 Scan-Lock™ plus steady-burn	12	20' heavy-duty TPR with built in strain relief connectors	Cast aluminum
WFLOWZ3A4				24		

Packer™ System

- Super-LED® lighthead are tough, encapsulated for vibration and moisture resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Highly effective, super bright LEDs are the lighting of choice. Reliable and road tested for the long haul
- Two wire (power and ground) cabling is easy to install right out of the box
- Saves your battery, keeps your warning system working as long as you do
- All internal connections are Deutsch® waterproof connectors for years of trouble free service
- Cables are tin coated copper stranded for water, oil, and corrosion resistance
- Five Year Warranty



PACKER2



PACKER1

Model	Optics	VDC	Cable	Housing	Size
PACKER1	Four TIR6 Super-LED	12	25' TPR cabling with strain relief tubing	Stainless steel	13-3/4" (349mm) H x 4-1/2" (114mm) D x 4-1/4" (108mm) W
PACKER2	Two TIR6 and two TIR3 Super-LED				3-1/4" (82mm) H x 5-1/2" (140mm) D x 15-1/4" (387mm) W

Spot & Floodlights

Pioneer LiFe™

Introducing the Pioneer LiFe Series, a family of revolutionary battery powered portable area lights designed to bring Whelen's advanced Pioneer technology where other lights can't go.

The Pioneer LiFe LF35 is the first of its kind, combining an all new Pioneer SlimLine™ optic with the portability and flexibility of a grab and go light.

The Intelligent Inductive Charger™ (IIC™) with no exposed contacts provides easy, wireless charging, and the built-in battery is lightweight and thermally protected. The LiFe LF35 is just 7.5 pounds, lighter than any other portable area light on the market today.

Design

- Hard-coated lenses minimize environmental damages
- Impact resistant glass reinforced nylon housing in Safety Yellow
- Robust adjustable ratcheting mechanism allows for a 180° range of uninterrupted light
- Push-button power switch and top handle are easy to use with gloved hands
- Well balanced top handle is designed to be over the center of mass
- IP67 rated for dust and water resistance
- Virtually no RFI/EMI radiation, the portable area light will not interfere with portable communication devices

Specifications

- 7.59" H (192.7mm), x 9.17" W (232.9mm), x 9.20" D (233.7mm)
- Five year warranty



Battery

- Built-in lightweight lithium iron phosphate battery utilizes LiFePO4 technology
- With 20 minutes left of battery life, light will flicker to remind the user to charge the battery
- With 15 minutes left of battery life, light will dim to a reduced intensity to preserve output time

Intelligent Inductive Charger

- IIC is specifically designed to work with Pioneer LiFe LF35 lights only
- Chargers available in 12 VDC, 120 VAC, and 240 VAC

- Green** Fully Charged
- Red** Charging
- Amber** Fault Detection
- Blue** Foreign Object Detection



Spot & Floodlights

Pioneer Nano™

- Available in 3 or 6 diode models
- Die-cast aluminum powder coated housing in Black or White
- Long life LED operation with low current draw and low operating temperature
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- 8° spotlight pattern comes standard. Includes additional optic lens for a light pattern choice of 40° x 20° flood
- Optic lens changes easily via four screws in picture frame fixture
- Powder coated stainless steel bail bracket with 3/8" stud carriage bolt mount
- Five year warranty



NP6BB



NP3BB

Model	Diodes	Mount	Housing	VDC	Amps	Watts	Lumens	Size
NP3BB	3	Bail/stud	Black	12	1	12.8	1100	1-7/8" (48mm) H x 1-3/4" (44mm) D x 3-1/2" (89mm) L
NP6BB	6				1.5	19.6	1800	2-5/8" (67mm) H x 1-3/4" (44mm) D x 3-1/2" (89mm) L
NP6B4B				24	0.75			

Pioneer Micro™

- Long life LED operation with low current draw and low operating temperature
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- 8° spotlight pattern comes standard. Includes three additional optic lenses for a light pattern choice of:
 - 90° x 20° wide flood
 - 40° x 20° flood
 - 40° x 8° horizontal flood
- Optic lens changes easily via four screws in picture frame fixture
- Powder coated stainless steel bail bracket with 3/8" stud carriage bolt mount
- Five year warranty



MPBB

Model	Mount	Housing	VDC	Amps	Watts	Lumens	Size
MPBB	Bail/stud	Black	12	3.5	44.8	4100	4-1/4" (108mm) H x 2-7/8" (73mm) D x 4-3/4" (121mm) W
MPB4B			24	1.75			

Spot & Floodlights

Pioneer SlimLine™ Series

- Die-cast aluminum powder coated housing in White or Black
- Long life LED operation with low current draw and low operating temperature
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Single lamp models include 8° spotlight lens supplied on lighthouse and one additional lens supplied for light dispersion of 40°x 20° flood
- Dual lamp models include 8° spotlight lens supplied on lighthouse, and two additional lenses are supplied for light dispersion of 40°x 20° flood and 8° spot/40°x 20° flood
- Recessed mount models available in straight and 15° downward angle with chrome trim flange
- Bail bracket works for horizontal and vertical mounting positions
- Five year warranty



Model	Mount	Lamp	Housing	VDC	Amps	Watts	Lumens	Size
PSL1BB	Bail/stud	Single	Black	12	3	39.2	3600	3-1/4" (82mm) H x 2-1/8" (55mm) D x 6-7/8" (175mm) W
PSL2BB		Dual			6.1	78.3	7300	3-1/4" (82mm) H x 2-1/8" (55mm) D x 12-1/2" (317mm) W
PSL2P4B	Low profile Ped/Swivel			24	3			5-5/8" (143mm) H x 2" (51mm) D x 12-1/2" (317mm) W

OPTIONS

Option	Description
PSL24BLK	Dual, Black, mounting purchased separately

Spot & Floodlights

Pioneer™ Surface Mount

- Long life LED operation with low current draw and low operating temperature
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Combination spot/flood (patent pending) optic design projects light directly down at 5° producing illumination to the side of the vehicle arching upward to 90° pattern of light
- Solid-state electronics
- Instant On/Off eliminates ramp up time and high current in-rush
- Lights feature built-in nylon screw grommets eliminating galvanic corrosion
- Uniquely designed molded two part silicone grommet seals the 1" wire entry into the body
- Engineered thermal design keeps LEDs running cool and efficiently
- Five year warranty



PCPSM2B

Model	Lamp Type	Housing	VDC	Amps	Watts	Lumens	Size
PCPSM2B	Dual	Black	12	12	154	16,000	6-3/8"(162mm) H x 1-3/4" (44mm) D x 9"(228mm) L
PCPSM24B		Black	24	6	154		6-3/8"(162mm) H x 1-3/4" (44mm) D x 9"(228mm) L

Pioneer Plus™

- Long life LED operation with low current draw and low operating temperature
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- LEDs operate at very high light efficiency producing high lumen output per watt
- Available in four intensities
- Die cast aluminum powder coated housing
- Long life LED operation with low current draw and low operating temperature
- Solid-state electronics
- Instant On/Off eliminates ramp-up time and high current in-rush
- Removable handle standard on pedestal and pole mount models
- Five year warranty



Model	Lamp Type	Housing	VDC	Size
PFP2P1B	Dual	Black	12	9-3/4" (247mm) H x 6-1/16" (155mm) D x 14-1/16" (357mm) W
PFP24B			24	3-11/16" (94mm) H x 2-1/2" (64mm) D x 14" (356mm) L
PFS2P			12	9-3/4" (247mm) H x 6-1/16" (155mm) D x 14-1/16" (357mm) W

Spot & Floodlights

3200 Series Folding Tripod AC Pole Assemblies

- Extruded aluminum AC tripod assemblies
- Large 50", medium 40", and small 30" models
- Tripod models available are:
 - Wireless for use with ground tripod
 - With inner coil cord with or without plug
 - With loose external coil cord for top wire exit with plug or without plug
- All moving aluminum parts are isolated with nylon bushings for smooth adjustment and fold outs
- Poles, outer bodies, and folding legs are anodized to eliminate corrosion
- Optional tripod quick disconnect mount kit
- Optional ground tripod mounting bracket
- Requires Pioneer with pole/pedestal mount adapter (purchased separately)
- Five year warranty



3300 Series Ground Tripods

- White powder coated cast aluminum AC portable ground tripod
- Includes stationary quick disconnect mount
- Supplied with 12" cable
- Optional plug available
- Five year warranty



Spot & Floodlights

Hand Held Spotlight

- 90# pull magnet mount with 8' coiled cord and cigar plug
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Built-in push-button On/Off switch
- Five year warranty

Model	Lighting	Diodes	VDC	Amps	Lumens	Mount
P46HHS	Spotlight	18	12	2.3	2000	Hand held, (includes magnet)
P46HHS4			24	0.93		

P46HHS



High Intensity Drive Light

- Self-contained
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- LED Landing Light Assembly
- All current source and electronic circuitry is contained within the housing
- Outer lens allows for mounting externally
- Diffusion lens available upon request

9036125



Model	Part Number	Technology	Lens	VDC	Amps	Size
9036125	01-0790361-25	Fog Lamp	Polycarbonate	28	1.5	4.70 (119mm), Dia x 2.87 (73mm) D

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Spot & Floodlights

Continuum™ Series

- Spot or Flood Optic LED modules
- Hard-coated lenses will not degrade with UV exposure
- IP67 Rated for dust and water resistance
- Black powder coated extruded aluminum housing protects the lightbar from environmental damage
- Universal “L” bracket mount standard, other mounting options available
- Easily serviceable front-load design
- Plug & Play Waterproof wiring harness with waterproof relay and switch included
- Five year warranty



Model	Series	Lamp	LEDs	Lenses	Lumens	Colors	Amps	VDC	Size
S1F	Single Row	Floodlight	9	Clear or Smoked	2100	W	2.3 / Per module	12	10" (254mm) L
S2SF					5000		5 / Per module		20" (508mm) L
C1F	Dual Row				2100		2.3 / Per module		10" (254mm) L
C2SF					5000		5 / Per module		20" (508mm) L

Pan & Tilt™ Spotlight

- Wired or wireless controlled spotlight
- Rated to last thousands of hours with remarkable bright light
- Wireless controller mounts anywhere
- Proportional push-button control for quick and easy operation
- Low amp draw
- Tilts 90° up and 20° down
- Pans 420° horizontally
- Defaults to home position after use
- Size: 8-3/4" (220mm) H x 7-3/4" (196mm) Dia
- Available in White
- Five year warranty



Model	Mount	Controller	Lens	Base	VDC	Amps	Lumens
PT360P	Permanent	Wired	Hard-coated polycarbonate to resist scratches and UV damage	Polycarbonate	12	2 / Peak	1475

Mini Lightbars

Mini Freedom® IV Series

- SAE Class 1 Certified
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Four Linear-LED® corner modules
- Add up to 4 additional inboard Super-LED® modules. Take-down and alley lights for permanent mount only
- Clear outer domes with Clear dividers
- Available in Amber, and White
- Five year warranty



Model	Technology	Mount	Amps	VDC	Patterns	Base	Lens	Size
F4MAAAAAP	Linear-LED	Permenant	8 / Peak 3.2 / Average per corner	12	58 Scan-Lock™	Extruded aluminum	Clear	3-3/4" (95mm) H x 12-1/2" (318mm) W x 21-1/2" (546mm) L
F4MAAAAAM		Magnetic						

OPTIONS

Option	Description
F4DL*	One single long 12 Super-LED lighthouse, Amber, or White
For Permanent Mount Only	
F4MA3	Two 3-LED Super-LED alley lights, includes harnesses
F4MA6	Two 6-LED Super-LED alley lights, includes harnesses
F4MTL3	Two 3-LED Super-LED long take-down lights, includes harnesses

Replace symbol* in model number with desired color. A = Amber, C = White

Option	Description
For Permanent Mount Only	
F4MTL6	Two 6-LED Super-LED long take-down lights, includes harnesses
F4MTATL3	Two 3-LED Super-LED alley lights and two 6-LED Super-LED long take-down lights, includes harnesses
F4MTATL6	Two 6-LED Super-LED alley lights and two 6-LED Super-LED long take-down lights, includes harnesses

Mini Freedom Rota-Beam™ Series



- SAE Class 1 Certified
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- 100% solid-state Rota-Beam modules give the sweeping effect of a traditional halogen rotator without the mechanical and bulb failures
- Models with two or four Rota-Beam corner modules
- Cruise light standard for corner modules
- Color or Clear lenses
- 15' cable standard
- Available in Amber, Blue, and Red
- Five year warranty



Model	Technology	Mount	Amps	VDC	Patterns	Base	Lens	Size
FB8AAAAP	Rotating Super-LED	Permanent	2.2 / Peak 1.1 / Average per rotator	12	10 Scan-Lock™	Extruded aluminum I-Beam	Clear, color available	3-3/4" (95mm) H x 12" (304mm) W x 28-1/4" (717mm) L

OPTIONS

Option	Description
FRB*	One Rota-Beam module for inboard, front or rear, available in Amber, or White
FRALF1	Two LR11 alley lights with 15° horizontal adjustment
FRALF1D	Two dual LR11 alley lights with horizontal adjustment

Replace symbol* in model number with desired color. A = Amber, C = White

Option	Description
FRTL51	Two LR11 work lights with 15° horizontal adjustment
FRALF1D	Two dual LR11 work lights with horizontal adjustment

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Mini Lightbars

Mini Century™ Series

- SAE Class 1 Certified
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Extruded aluminum base
- Standard current switching with Scan-Lock™ flash patterns and pattern override
- Low profile with compression fit gasket for superior moisture resistance
- Pre-configured lightbars
- Available in Amber and White
- Five year warranty



Model	Color	Mount	Base	Technology	Amp	VDC	Patterns	Lens	Size
MC11MA	A, W	Magnetic	Aluminum	Linear Super-LED corners	3.6 / Peak 2.2 / Average	12	17 Flash patterns	Amber	2-1/2" (64mm) H x 7-1/2" (191mm) D x 11" (279mm) L
MC16MA	A, W			TIR6 Super-LED inboards	4.8 / Peak 3 / Average				2-1/2" (64mm) H x 7-1/2" (191mm) D x 16" (406mm) L

Mini Justice® Series

- SAE Class 1 Certified
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Super-LED® CON3™ inboard modules and Linear Super-LED corners
- Permanent models includes 15' cable, magnetic, and magnetic/suction mount with 10' cord, cigar plug with On/Off switch with LED "On" indicator, and Scan-Lock flash pattern switch
- Low profile, only 2-1/4" high
- Available in Amber and White
- Five year warranty



MJYAAAAM

Model	Technology	Mount	Amps	VDC	Patterns	Base	Lens	Size
MJYAAAAM	Linear-LED®	Magnetic	4 / Peak 1.6 / Average (4 corners only)	12	79 Scan-Lock	Extruded aluminum	Clear, color available	2-1/4" (57mm) H x 12" (304mm) W x 22" (558mm) L

OPTIONS

Option	Description
JDCA	One CON3 Super-LED module
JDH*	One LTR3™, Super-LED module. For use with MJTDAL only

Option	Description
MJTDALL1	Four LR11 Super-LEDs, two steady-burn work lights, and steady-burn alley lights with 15° horizontal adjustment, for permanent models only (Replaces MJTDAL)

Replace symbol* in model number with desired color. A = Amber, C = White

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Mini Lightbars

Responder® LP Series

- SAE Class 1 Certified
- Super-LED low profile linear (LIN6™) or conical (CON3™) mini lightbar
- Polycarbonate dome
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- Available with extruded aluminum base or polycarbonate base
- Available in permanent, magnetic, and magnetic/suction mount models
- Color outer dome standard on single color models, Clear outer dome standard on two color models
- DUO™ technology model has different color LEDs in the same module allowing lightbar to flash different colors
- Five year warranty



R2LPMA & R2LPMA4

Model	Color	Mount	Base	Technology	Amp	VDC	Patterns	Size
R2LPMA	A	Magnetic	Polycarbonate	Linear-LED®	6 / Peak 2.4 / Average	12	54 Scan-Lock™	2-7/8" (73mm) H x 6-5/16" (160mm) W x 17" (431mm) L
R2LPMA4	A		Aluminum		3 / Peak 1.2 / Average	24		3-1/4" (82mm) H x 6-5/16" (160mm) W x 17" (431mm) L

Pit Traffic Control Light

- 120 VAC, twelve Super-LED® assemblies plus a Super360-LED™ Beacon
- Comes complete with signal unit, control unit, and 20' of interconnect cable
- Weatherproof enclosure
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Super-LEDs reach full intensity quicker than glass or gas filament lamps
- Super-LEDs feature extremely low amp draw
- Super-LEDs are epoxy encapsulated for optimum moisture/vibration protection
- Super-LEDs have a typical life of 100,000 hours
- Color combinations of your choice



Model	Technology	Color	Housing	Amp	VAC	Lens	Size
RTR12AG	Super-LED	A, G, R	Aluminum, Black	12 / Peak 5 / Average	120	Clear	13-7/8" (352mm) H x 12-3/8" (314mm) D x 31-3/4" (806mm) L

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Super-LED® Lightbar

Dominator™

- SAE Class 1 Certified
- Low profile surface mount housing designed for interior or exterior use
- Choice of TIR3™ modules
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Internal self-contained electronics
- Slide bolt mount
- Five year warranty



D6AAAAAA

Model	Lamps	Lamp Type	Housing	Length	VDC	Amps	Patterns
D6AAAAAA	6 Lamp	TIR3	Extruded aluminum	21" (533mm)	12	0.44 / Peak 0.2 / Average per module	7 Flash patterns and steady on mode, pairs may be synchronized to each other

OPTIONS

Option	Description
DBKT4	"L" angle mounting bracket kit, customer installed

Beacons

Rota-Beam™ R416 & R316 Series



- SAE Class 1 Certified
- Medium profile, smooth polycarbonate outer dome
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- 100% solid-state electronics
- Conformal coated electronics for moisture and vibration resistance
- Cruise light feature
- Available in permanent and magnetic mount models
- Integrate with other Whelen products through synchronize feature
- Available in Amber and White
- Five year warranty



Model	Mount	LED Color	Dome Color	Base	VDC	Amps	Patterns
R316AF4	Permanent	Single	Color	Powder coated cast aluminum	24	2.25 / Average	32 Scan-Lock™ with varying rotating flash rates
R316RAM	Magnetic	Split Color Front/Rear			12		
R416RAM							

OPTIONS

Option	Description
BBKT20	Stainless Steel Shelf Mount Bracket
MIRROR20	Stainless Steel West Coast Mirror Mount Bracket
RPHOTO	Photocell For Hi/Low Power
L360BGB	Branch Guard Kit For R316
L40BG	Branch Guard Kit For R416

Model	Replacment Dome
R316	68-2984063-*0 Replacment Dome
R416	68-2986501-*0 Replacment Dome

Replace symbol* in model number with desired color. A = Amber, C = White

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Beacons

L31 & L32 Series

- SAE Class 1 Certified (Amber)
- Powder coated die-cast base
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- Conformal coated electronics for moisture and vibration resistance
- Alternately or simultaneously flash multiple patterns (Cross-Link™) with up to 8 Whelen Super-LED 360° beacons (perm mount)
- Available in Amber and White
- Five year warranty



Model	Mount	LED Color	Dome Color	Base	VDC	Amps	Patterns
L31HAF	Permanent	Single	Color	Die cast aluminum	12	5 / Peak 2 / Average	30 built-in Scan-Lock™ flash patterns plus 4 simulated rotating patterns
L31HAM4	Magnetic						
L32LAM4					24	2.5 / Peak 1 / Average	75 SignalAlert™ only

OPTIONS

Options	Description
L360PMKT	1" NPT pipe mount kit for L31/L32
L360BGB	Branch guard kit for L31/L32 allows 1" NPT pole mounting
MIRROR20	West Coast mirror mount brackets
BBKT30	Stainless steel shelf mount bracket mounts to flat vertical surface

Replacement Dome
68-2984063-*0 (high)
68-2984099-*0 (low)

Replace symbol* in model number with desired color. A = Amber, C = White

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Beacons

L10 Series

- SAE Class 1 Certified (Amber)
- High and low dome models
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- Virtually no RFI/EMI radiation
- DUO™ technology features different color LEDs in the same module allowing individual control of each color
- Available in Amber and White and DUO Amber/White and Amber/Blue
- Five year warranty



L10HAM

Model	Mount	LED Color	Dome Color	Base	VDC	Amps	Patterns
L10HAM	Magnetic	Single	Color	Polycarbonate	12	1.0 / Peak 0.4 / Average	75 SignalAlert™ default pattern 18 flash patterns available
L10HAM4					24		

OPTIONS

Option	Description
MIRROR20	West Coast mirror mount bracket
BGH	Branch guard, high dome
BGL	Branch guard, low dome
BBKT20	Stainless steel shelf mount bracket, mounts to flat vertical surface
MMK	90 lb. pull magnetic mount kit with 8' straight cord and plug
LSK	Single lighted switch (15 amp rated), mounted on bracket, wired and fused

Option	Replacement Dome
DH2000*	High dome
DL2000*	Low dome

Replace symbol* in model number with desired color. A = Amber, C = White

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Beacons

L21 & L22 Series

- L21 is SAE Class 1 Certified (Amber)
- L22 is SAE Class 2 Certified (Amber)
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- Available in combination, magnetic, and magnetic/suction mounts
- Virtually no RFI/EMI radiation
- Available in Amber and White
- Five year warranty

Note: L21 & L22 magnetic and magnetic/suction mounts do not include synchronization or pattern control capabilities.



Model	Mount	LED Color	Dome Color	Base	VDC	Amps	Patterns
L21HAM	Magnetic	Single	Color	Polycarbonate	12	1.5 / Peak 0.60 / Average	25 Scan-Lock™ patterns including steady-burn
L21HAP4	Combination				24	0.75 / Peak 0.30 / Average	
L21HAV4	Magnetic/Suction					0.32 / Peak 0.13 / Average	
L22HAP4	Combination						

OPTIONS

Option	Description
BBKT20	Stainless steel shelf mount bracket mounts to flat vertical surface
MIRROR20	West Coast mirror mount brackets
MMK	Magnetic kit with 8' cord & plug
BGH	Branch guard, high dome
BGL	Branch guard, low dome
LSK	Lighted switch kit mounted on bracket, wired & fused

Option	Replacement Dome
DH2000*	High dome
DL2000*	Low dome

Replace symbol* in model number with desired color. A = Amber, C = White

The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user

Beacons

B63 Series Combination Tailboard Lighting

- Designed for use in NFPA 1901 Specification lighting packages, this series combines 360° warning and directional lighting in a single fixture
- Super-LED® beacon and 700 Series Linear-LED® have built-in flashers providing multiple flash patterns, plus cruise light mode on LED beacon
- Lower level light offered in single or split color
- Hard-coated lenses and domes resist environmental damage from sand, sun, salt, and road chemicals
- Five year warranty on LEDs
- Three year warranty on halogen motor assembly



B63M7R1

Model	Mount	Lower Lighting	Upper Lighting	Base	VDC	Amps	Size
B63M7R1	Flat permanent	M7 Super-LED lighthouse	R316 Super-LED Rota-Beam beacon	Polished aluminum	12	4.5 / Peak 3.1 / Average	7-3/8" (187mm) H x 7-13/16" (198mm) W x8-1/16" (204mm) D

Sirens & Speakers

Power Air Horn

- An inexpensive supplement to your standard car horn
- Delivers 100 watts of power to a 100 watt siren speaker (purchased separately)
- Can be wired remotely to the horn ring of the vehicle or to a (customer supplied) switch
- Sturdy amplifier housing mounts in the trunk, under the seat, or other remote locations
- Power Airhorn Plus (PAP112) features public address and a high gain microphone with PA volume control
- Can be used with standard 100 watt siren speakers including Whelen SA314P. Visit whelen.com for a complete listing of 100 watt speakers
- Draws 8 amps at 12.8 VDC



PAP112

Model	Series	Siren Type	Output Power (Watts)	VDC	Switches	Hands-Free	Siren Tones	Micro-phone	Mount	Size
PAP112	PA Series	Power airhorn	100	12	Can be wired remotely to the horn ring or to a customer supplied switch	-	1 Includes PA	Yes	Bail Bracket	2-1/4" (57mm) H x 5-1/2" (140mm) D x 5-3/8" (137mm) W

OPTIONS

Option	Description
PAPEXT15	15' Microphone extension cable for PAP112 only

Sirens & Speakers

SA315P Speaker

- All weather nylon composite black housing with front loaded, powder coated speaker driver.
- Superior performance in a very small profile package. Only 2-7/8" in depth.
- Exceeds California Title XIII, Class A and S.A.E. J1849 requirements with most sirens (120-123dB @10').
- Optimum performance assured when used with all Whelen high-power electronic sirens.
- Easily installs to the radiator cross member in just a few minutes (without dismantling the front grille of the vehicle).
- Truer tone quality and wider/higher frequency response than speakers of comparable size.
- Universal mounting bracket, plus vehicle specific brackets available.
- Compact size is ideal for concealed installations in any type vehicle.
- Two year standard Whelen warranty.

SA315P with SAK1
Universal bracket

SA315P

Model	Series	Speaker Type	Output Power	VDC	Housing	Mount	Size
SA315P	Projector™ Series	High performance multi-port	100 Watts	12	Black nylon composite	Vehicle specific Consult current price list	6-1/2" (165mm) H x 2-7/8" (74mm) D x 6-7/16" (164mm) W

OPTIONS

Option	Description
SAK1	Universal "L" bracket
SAK9	Universal/swivel bail type mount bracket

Mass Notification

Alert & Inform

The basic purpose of a Mass Notification Product is the ability to ALERT through a tone and INFORM through voice. If your siren system is producing only a tone, then it's only doing half it's job!

The most effective way to warn the public is to issue a tone warning and follow it with a clear, deliberate and powerful voice message. This two-step approach, ALERT and INFORM, will eliminate confusion, restore order and most importantly, save lives.

Our WPS2900 Series accomplishes this in two ways. One is to ALERT, the other is to INFORM through omnidirectional voice and tone warning. The WPS2900 Series delivers voice warning and broadcasting of unequalled clarity at uniform power levels (+/- 1dB) throughout 360°.



Type III Electronic Cabinet



WPS2905

Ten models serve a wide variety of applications as shown here



WPS2905 With Solar Panel

Lighting Certifications

B CAC, Title 13, Article 22
(Red, Blue and Amber lighthead)

Warning Lamps and Devices

C SAE J595 - Flashing Warning Lamps for Authorized Emergency, Maintenance, and Service Vehicles (Jan 90)

D SAE J845 - 360° Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles (May 97)
Class 1, Class 2, Class 3
(Includes selective coverage)

E..... SAE J1318 - Gaseous Discharge Warning Lamp for Authorized Emergency, Maintenance, and Service Vehicles (May 98) Class 1, Class 2, Class 3

Test Procedures and Materials

F..... SAE J575 - Test Methods and Equipment for Lighting Devices & Components for use on Vehicles less than 80" (2032mm) in Overall width (Jun 92)

G SAE J2139 - Test Methods and Equipment for Lighting Devices & Components for use on Vehicles greater than 80" (2032mm) in Overall width (Jan 96)

H SAE J578 - Color Specifications (Jun 95)

Signalling and Marking Lighting Devices and Systems

I FMVSS108 - Federal Motor Vehicle Safety Standards

J..... SAE J586 - Stop Lamps for use on Motor Vehicles Less than 80" (2032mm) in Overall width (Sep 95)

K SAE J585 - Tail Lamps (Rear position Lamps) for Use on Motor Vehicles Less than 80" (2032mm) in Overall width (Dec 94)

L..... SAE J588 - Turn Signal Lamps for Use on Motor Vehicles Less than 80" (2032mm) in Overall width (Dec 94)

M ... SAE J592 - Clearance, Side Marker, Identification Lamps (Dec 94)

N SAE J593 - Back-up Lamps (Reversing Lamps) (Oct 95)

N(A) SAE J593C - Back-up Lamps (Reversing Lamps) (Feb 68)

O SAE J914 - Side Turn Signal Lamps for Vehicles less than 36' (12m) in Length (Jan 95)

P SAE J1432 - High Mounted Stop lamps for Use on Vehicles 80" (2032mm) or More in Overall Width (Sept 97)

Q SAE J1889 - LED Lighting Devices (Jun 99)

R SAE J1957 - Center High Mounted Stop Lamp Standard for Vehicles Less than 80" (2032mm) in Overall Width (Jun 93)

S SAE J2039 - Side Turn Signals Lamps for Large Vehicles (Jun 94)

T..... SAE J2040 - Tail Lamps (Rear Position Lamps) for Use on Vehicles 80" (2032mm) or More in Overall Width (Apr 99)

U SAE J2042 - Clearance, Side marker, and Identification Lamps for Use on Motor Vehicles 80" (2032mm) or More in Overall Width (Jun 96)

V SAE J2261 - Stop Lamps and Front and Rear-Turn Signal Lamps for Use on Motor Vehicles 80" (2032mm) or More in Overall Width (Mar 96)

W ... NFPA 1901 - (2009 Edition) For NFPA application consult current NFPA Specification Lighting Packages Catalog

X SAE J1398 - Stop Lamps for Use on Motor Vehicles 80" (2032mm) or More in Overall Width

Y SAE J1395 - Turn Lamps for Use on Motor Vehicles 80" (2032mm) or More in Overall Width

WHELEN[®]

ENGINEERING COMPANY, INC.

51 Winthrop Road
Chester, Connecticut 06412-0684
(860) 526-9504
www.whelen.com

ISO 9001 Registered QMS

Distributed by:

