



Municipal Lighting Systems

WHELEN[®]
TRUSTED TO PERFORM[™]

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About

Whelen Engineering has been designing and manufacturing professional lighting system solutions for over fifty years. Engineered to meet all demands of the heavy-duty truck market, Whelen is proud to provide lighting solutions that are designed for all operating conditions.

Providing safe, reliable systems to both operators and the motoring public is at the forefront of Whelen's mission. As an industry leader, Whelen prides itself in providing flexible system programmability and introducing innovative, high quality products for further safety enhancement.

We appreciate your loyalty as we continue to drive innovation.



CAUTION!
Warning signs can
change and are not
guaranteed to be
correct. Always use
proper safety practices.

MUNICIPAL SYSTEM FEATURES



Optics

- Certified by an AMECA-accredited testing laboratory to meet or exceed SAE warning lighting requirements in the appropriate specified safety colors
- Lighting profile easily defines the width and height of a highway vehicle
- Wide-angle Super-LED® lightheads ensure visibility when dump body is raised or lowered, including forward dump bodies
- All warning lighthead colors are Amber. For other colors, contact factory
- Multiple flash patterns and sequence options provide improved reference for motorists in determining the distance to and location of maintenance vehicles

Design

- Pure copper stranded conductors used in all TPE cables are tin coated, providing superior longevity
- A 12" protective section of flex-tubing and coupling to the housing prevents cable chafing
- All rear lightheads are furnished with Deutsch® waterproof connectors
- Each system includes a complete installation kit, including cable harnesses
- 400 and 700 Series lighthead housings are 7 gauge welded stainless steel

Municipal System Components

Front System Components

Front system components are offered in four Super-LED® models with combined 360° warning visibility. Includes 60' of heavy-duty TPE cable.

Micro Freedom™



3-3/4" (95mm) H x 9-5/16" (236mm) D x 12-5/16" (312mm) L

Micro 400



3-3/4" (95mm) H x 10-3/4" (272mm) D x 10" (254mm) L

Stainless Steel Micro 400



3-5/8" (92mm) H x 8-1/4" (209mm) D x 8-1/4" (209mm) L

Remote L31 Beacon

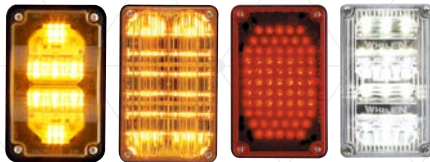


4-1/2" (102mm) H x 7-3/16" (182mm) Dia.

Rear Lightheads

Rear lightheads are offered in three sizes. Super-LED lightheads have specially designed lenses for wide light output. All lightheads are supplied with Deutsch® waterproof connectors.

400 Series



4-15/16" (124mm) H x 3-3/16" (77mm) W

700 Series



7-1/4" (184mm) H x 3-1/16" (78mm) W

Rear Housings

Rear mounted lightheads include 30' heavy-duty, oil resistant TPE jacketed cable with strain relief flex-tubing and couplings that provide added safeguard against the elements.

400 Series



Height: Single: 5-7/8" (149mm)
 Double: 11-3/8" (290mm)
 Triple: 17" (430mm)
 Width: 3-1/2" (88mm)
 Depth: 4-3/4" (120mm)

700 Series



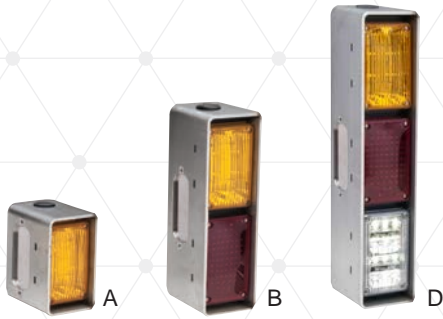
Height: Single: 8-3/8" (213mm)
 Double: 16-1/4" (412mm)
 Triple: 24" (608mm)
 Width: 3-1/2" (88mm)
 Depth: 5" (127mm)

*Five year warranty.

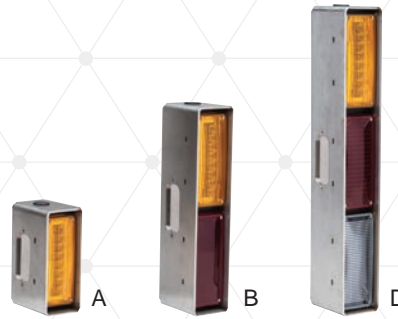


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Light Systems



400 SERIES



700 SERIES

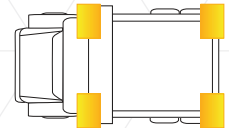
SYS401 & SYS701 **4 Light System**

Two Micro Freedom™ lighthouse assemblies with extended corner modules and two rear lighthouse options

SYSTEM 401

with 400 Series Lighthouses

SYS401A	Warning
SYS401B	Warning and brake/tail/turn
SYS401D	Warning, brake/tail/turn, and back-up



SYSTEM 701

with 700 Series Lighthouses

SYS701A	Warning
SYS701B	Warning and brake/tail/turn
SYS701D	Warning, brake/tail/turn, and back-up

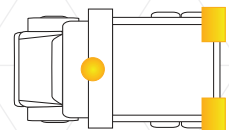
SYS402 & SYS702 **3 Light System**

One L31 remote beacon and two rear lighthouse options

SYSTEM 402

with 400 Series Lighthouses

SYS402A	Warning
SYS402B	Warning and brake/tail/turn
SYS402D	Warning, brake/tail/turn, and back-up



SYSTEM 702

with 700 Series Lighthouses

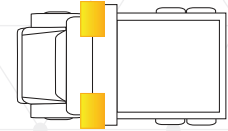
SYS702A	Warning
SYS702B	Warning and brake/tail/turn
SYS702D	Warning, brake/tail/turn, and back-up

SYS103 **2 Light System**

Two Micro Freedom™ lighthouse assemblies with extended corner modules

SYSTEM 103

SYS103	Two front Amber warning lights
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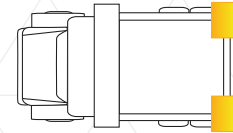
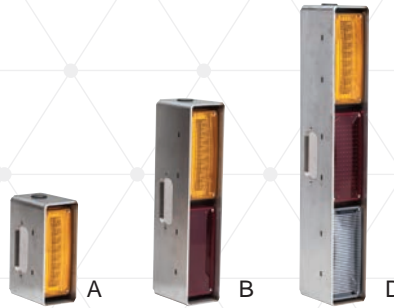
SYS404 & SYS704 **2 Light System**

Two rear lighthouse options

SYSTEM 404

with 400 Series Lighthoods

SYS404A	Warning
SYS404B	Warning and brake/tail/turn
SYS404D	Warning, brake/tail/turn, and back-up



SYSTEM 704

with 700 Series Lighthoods

SYS704A	Warning
SYS704B	Warning and brake/tail/turn
SYS704D	Warning, brake/tail/turn, and back-up

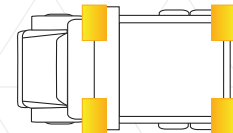
SYS405 & SYS705 **4 Light System**

Two Micro 400s and two rear lighthouse options

SYSTEM 405

with 400 Series Lighthoods

SYS405A	Warning
SYS405B	Warning and brake/tail/turn
SYS405D	Warning, brake/tail/turn, and back-up



SYSTEM 705

with 700 Series Lighthoods

SYS705A	Warning
SYS705B	Warning and brake/tail/turn
SYS705D	Warning, brake/tail/turn, and back-up

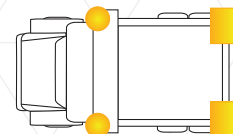
SYS406 & SYS706 **4 Light System**

Two L31 remote beacons and two rear lighthouse options

SYSTEM 406

with 400 Series Lighthoods

SYS406A	Warning
SYS406B	Warning and brake/tail/turn
SYS406D	Warning, brake/tail/turn, and back-up



SYSTEM 706

with 700 Series Lighthoods

SYS706A	Warning
SYS706B	Warning and brake/tail/turn
SYS706D	Warning, brake/tail/turn, and back-up

*Five year warranty.

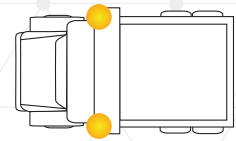


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SYS107
2 Light System
 Two L31 Beacons

SYSTEM 107

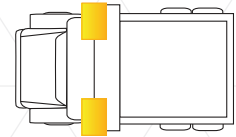
SYS107 Two front Amber warning lights



SYS108
2 Light System
 Two Micro 400s

SYSTEM 108

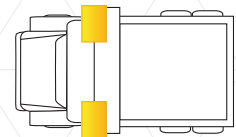
SYS108 Two front Amber warning lights



SYS109
2 Light System
 Two stainless steel Micro 400s

SYSTEM 109

SYS109 Two front Amber warning lights



SYS410 & SYS710
4 Light System

Two stainless steel Micro 400s and two rear lighthouse options

SYSTEM 410

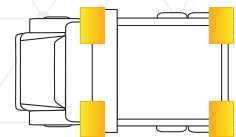
with 400 Series Lighthoods

SYS410A	Warning
SYS410B	Warning and brake/tail/turn
SYS410D	Warning, brake/tail/turn, and back-up

SYSTEM 710

with 700 Series Lighthoods

SYS710A	Warning
SYS710B	Warning and brake/tail/turn
SYS710D	Warning, brake/tail/turn, and back-up





SmartLogic™ Programmable Flasher

Engineered to maintain situational awareness of the operator, the SmartLogic Programmable Flasher houses numerous innovative technologies that deliver highly effective visual warning.

- Housed in a junction box for ease of mounting, along with wiring and connection protection
- Software is configurable via USB port
- All 8 outputs are internally protected and fused
 - Each solid-state output is rated for 5 amps
- 8 inputs
 - 5 activating inputs
 - 3 non-activating inputs for low power, photocell, and brake/tail/turn cut-off
- Default flash pattern
- LED onboard diagnostic indicators signify active outputs and blown fuses
- Day and night mode truck set-ups

*Five year warranty.



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SnowAway™ Heated Lens System

Introducing industry-first technology for preventing snow build up on rear corner post lights in most conditions.

- Tempered glass heats uniformly and keeps lenses at 45° F in most conditions
- Switches on automatically when the temperature drops below 40° F, providing zero operator involvement
- LED indicator light in the cab automatically notifies operator that the system is on or off
- On/Off switch located in the cab allows operator to manually control the system if needed
- Tempered glass uses between 1-4 amps (colder temperature increases amp draw)
- Housing and lens design accommodates three lightheads
- 14 gauge wire included

H400SD	400 Series Heated Lens System
H400VD	400 V-Series™ Heated Lens System



NOTE: Municipal lighting system sold separately. Option includes heated lens system only. Works with following system models: SYS401D, SYS402D, SYS404D, SYS405D, SYS406D and SYS410D



400 Series Super-LED® Back-Up Light

The 400 Series Super-LED Back-Up Light provides high intensity work zone illumination to increase operator and workforce safety.

- Downward ground illumination optics
- Available in horizontal or vertical mount
- Mounts into 400 Series housings
- Hard-coated lenses minimize environmental damage from sand, sun, salt, and road chemicals

SUB40BUH Substitute (2) 400 Horiz Back-ups for Vert



**Standard Option*

400 V-Series™

Dual purpose optics provide maximum rear corner post warning for all dump body positions.

- SAE Class 1 Certified
- Single color warning utilizing linear technology placed in both directions
- Hard-coated lenses minimize environmental damage from sand, sun, salt, and road chemicals
- Vibration, moisture, and corrosion resistant
- Mounts vertically into stainless steel housing
- Works in conjunction with current flasher models
- Conformal coated PC boards
- 12" pigtail with Deutsch® waterproof connector and strain relief

SUB4V400 Substitute (2) Amber 400VV for 400 Linear Warning





Municipal Options



Switch Control Panels

- Compact rocker style single pole/single throw switches
- Black epoxy-finished steel housing
- Individual spade-type fuses conveniently located on rear mounted fuse strip
- Active LED indicators light up to indicate function in use
- Ignition controlled backlighted legend windows for easy visibility in any light
- Backlight circuit can be connected to vehicle dimmer switch to control backlight intensity
- 72 commonly used press-on switch function label legend tabs
- 25 amps peak

PCC4W	Four 25 amp switches. 2-1/4" (57mm) H x 3" (76mm) W x 4" (102mm) D
PCC6W	Six 25 amp switches. 2-1/4" (57mm) H x 6" (152mm) W x 3-9/16" (91mm) D



L31 Branch Guard

Cast aluminum brush guard for one beacon.

L360BGB



TIR3™ Super-LED® Lighthouse

Add visibility with a TIR3 lighthouse mounted to the side of a 400 or 700 Series housing, providing 90° of warning light coverage. Offered in pairs.

ADD4TIR3	400 Series
ADD7TIR3	700 Series



Pioneer Micro™

- Die-cast aluminum Black powder coated housing
- Powder coated stainless steel bail bracket with 3/8" stud carriage bolt mount
- Optic lens changes easily via four screws in picture frame fixture
- Includes three additional lenses:
 - Flood lens with 90° x 20° wide optics
 - Flood lens with 40° x 20° optics
 - Flood lens with 40° x 8° horizontal optics
- 12 VDC

MPBB	Pioneer Micro
MPBBA	Pioneer Micro, Amber



Wing Plow™ Lighting Systems

- Two styles of Amber lightheads provide complete coverage whether snowplow wing is in the operation position or in the stowed travel position
- Pairs can be synchronized for alternating or simultaneous flashing
- Fully encapsulated for vibration, moisture, and corrosion resistance

WLOW3AA	TIR3™ light modules
WLOW1A	Wing Plow Operating Amber TIR3
WLOWZ1A	Wing Plow Operating Amber LINZ6™
WLOW2A	Wing Plow Stowed Amber TIR3
WLOWZ2A	Wing Plow Stowed Amber LINZ6
WLOWZ3A	LINZ6 light modules



Photocell

Photocell option for Hi/Low power, includes Black flange

LCPHOTO



PAR-36 Work Light

- Combination spot/floodlight with rubber housing and stainless steel swivel bracket and hardware
- Polycarbonate outer lens resists scratches and UV damage
- Reverse polarity protected

P365LCHG PAR-36



Cable Lengths

Substitute 45' or 30' cables for standard 60' cables. Offered in single or pairs.

SUBF4C45	Pair, 45'
SUBF4C30	Pair, 30'
SUBF2C45	Single, 45'
SUBF2C30	Single, 30'
SUBR2C45	Substitute 45' 2/C Rear Cable
SUBR5C45	Substitute 45' 5/C Rear Cable

*Five year warranty.



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NASCAR®

Whelen has supported NASCAR and its grass roots racing series for over 25 years. Whelen sponsors the Whelen All-American Series, the Whelen Euro Series, and the Whelen Modified Tour. Additionally, Whelen is proud to provide the Official Warning Lights of NASCAR.



OFFICIAL WARNING LIGHTS OF NASCAR





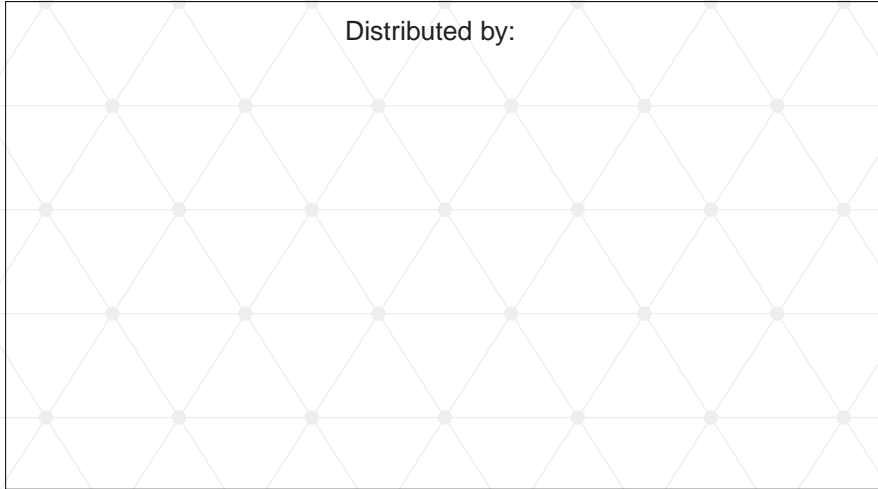
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