09

WARNING AND HAZARD

GYROPHARES ET FEUX D’AVERTISSEMENT

LÁMPARAS DE ADVERTENCIA Y PRECAUCIÓN
**LED BEACONS, CLASS I, TALL DOME**

S-Link™ System™ synchronizing capabilities with up to six other units. Allows for synchronization with other S-Link™ compatible products. • Heavy-duty spun aluminum base with plastic base insert • 12 different selectable flash patterns in either of two phases, plus steady-on • High-Low power available on single color beacons & ability to isolate colors on dual color models • Available in dual color flash patterns

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>78010</td>
<td>LED Amber/Blue Beacon w/ Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>78011</td>
<td>LED Clear Beacon w/ Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>78013</td>
<td>LED Amber Beacon w/ Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>78015</td>
<td>LED Blue Beacon w/ Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>79070</td>
<td>LED Amber/Green Beacon w/Clear Dome</td>
<td>MULTI</td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate / Aluminum Base  
**Standards:** SAE J845™ Class I (78010, 78011, 78013); Class II (78015); Not SAE Approved (79070)  
**Volts / Amps:** 12–24V / 0.6A at 12V  
**Lens:** Internal Clear Lens 98251, Internal Amber Lens 98253, Internal Blue Lens 98255, External Clear Lens 98271  
**VMRS Code:** 034-006-056

---

**LED BEACONS, CLASS I, TALL DOME**

S-Link™ System™ synchronizing capabilities with up to six other units. Allows for synchronization with other S-Link™ compatible products. • Heavy-duty spun aluminum base with plastic base insert • 12 different selectable flash patterns in either of two phases, plus steady-on • Universal mounting: permanent mount, 1” pipe mount • Available in non-rotating single color operation only

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>79071</td>
<td>LED Clear Beacon w/Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>79073</td>
<td>LED Amber Beacon w/Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>79075</td>
<td>LED Blue Beacon w/Clear Dome</td>
<td>MULTI</td>
</tr>
<tr>
<td>79074</td>
<td>LED Green Beacon w/Clear Dome</td>
<td>MULTI</td>
</tr>
</tbody>
</table>

**Standards:** SAE J845™ Class I (79071, 79073); Class II (79075); Not SAE approved (79074)  
**Volts / Amps:** 12–24V / 0.6A at 12V, 0.3A at 24V  
**Lens:** Internal clear lens 98251, Internal Amber Lens 98253, Internal blue lens 98255, External Clear Lens 98271  
**VMRS Code:** 034-006-056

---

**CLASSES I, II, & III – WHICH TO USE WHERE**

**CLASS I OPTICAL WARNING DEVICES**

Primary optical warning devices for use on authorized emergency vehicles responding to emergency situations. These devices are used to capture the attention of motorists and pedestrians and warn of a potentially hazardous activity or situation.  
**Typical Usage**  
Fire, Police, Ambulance and Rescue vehicles — authorized vehicles that travel faster than the speed of traffic

**CLASS II OPTICAL WARNING DEVICES**

Primary optical warning devices for use on authorized maintenance or service vehicles to warn of traffic hazards such as a lane blockage or slow-moving vehicle.  
**Typical Usage**  
Utility, roadside assist vehicles, construction vehicles — Over-the-road vehicles traveling at the speed of traffic or stopped at the side of the road

**CLASS III OPTICAL WARNING DEVICES**

Primary optical warning devices for use on vehicles authorized to display an optical warning device for identification only.  
**Typical Usage**  
Forklifts, yard work machines

---

**S-LINK™ TECHNOLOGY**

S-Link™ System is a proprietary technology that will allow similar S-Link™ products to be synchronized. This allows for a user to define the flash patterns on multiple devices for a customized, tailored look on a vehicle. Note: Only S-Link™ compatible products can be synchronized to. Refer to user installation manuals for details on S-Link™ synchronization.
**LED BEACON, CLASS I**

12 different selectable flash patterns in either of two phases, plus steady-on
- Circuit board is conformal coated to protect circuitry
- S-Link™ System* synchronizing capabilities with up to six other units Allows for synchronization with other S-Link™ compatible products

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>78030</td>
<td>LED Beacon Amber LED Clear Short Dome</td>
</tr>
<tr>
<td>78031</td>
<td>LED Beacon Clear Short Dome</td>
</tr>
<tr>
<td>78032</td>
<td>LED Beacon Red Short Dome</td>
</tr>
<tr>
<td>78033</td>
<td>LED Beacon Amber Short Dome</td>
</tr>
<tr>
<td>78034</td>
<td>LED Beacon Green Short Dome</td>
</tr>
<tr>
<td>78035</td>
<td>LED Beacon Blue Short Dome</td>
</tr>
<tr>
<td>78050</td>
<td>LED Beacon Amber LED Clear Tall Dome</td>
</tr>
<tr>
<td>78051</td>
<td>LED Beacon Clear Tall Dome</td>
</tr>
<tr>
<td>78052</td>
<td>LED Beacon Red Tall Dome</td>
</tr>
<tr>
<td>78053</td>
<td>LED Beacon Amber Tall Dome</td>
</tr>
<tr>
<td>78054</td>
<td>LED Beacon Green Tall Dome</td>
</tr>
<tr>
<td>78055</td>
<td>LED Beacon Blue Tall Dome</td>
</tr>
</tbody>
</table>

**MAGNET MOUNT WITH AUXILIARY ADAPTER:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>78041</td>
<td>LED Beacon Clear Vac-Mount</td>
</tr>
<tr>
<td>78043</td>
<td>LED Beacon Amber Vac-Mount</td>
</tr>
<tr>
<td>78045</td>
<td>LED Beacon Blue Vac-Mount</td>
</tr>
</tbody>
</table>

Material: Polycarbonate
Standards: SAE J845™ Class I (78031, 78033, 78041, 78043, 78051, 78053)
Class II (78032, 78035, 78045, 78052, 78055)
Not SAE approved (78034, 78054)
Volts/Amps: 12-24V, 0.5A at 12V
Accessory: 6" Branch Guard 98460, 4" Branch Guard 98470
Lens: 98171, 98173, 98175, 98171, 98221, 98223, 98225, 98174, 98224
VMRS Code: 034-006-056

**LED BEACON, CLASS I**

Class I LED beacon is designed to provide optimal lighting for all application needs
- Available in low- or high-dome options and 12-volt or 24-volt models
- LED technology benefits also include low power draw and reduced on-going maintenance costs and downtime
- Permanent mount

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>76253</td>
<td>LED Beacon Amber Short Dome</td>
</tr>
<tr>
<td>76255</td>
<td>LED Beacon Amber Short Dome</td>
</tr>
<tr>
<td>77953</td>
<td>LED Beacon Amber Tall Dome</td>
</tr>
<tr>
<td>77963</td>
<td>LED Beacon Amber Tall Dome</td>
</tr>
</tbody>
</table>

Material: Polycarbonate
Standards: SAE J845™ Class I
Volts/Amps: 12V / .5A, 1A max, 24V / .2A, .5A max
VMRS Code: 034-006-056
**ROTOLED™ LED HYBRID BEACON, CLASS I**

High-intensity LEDs in a rotating warning device with no gears, brushes or bulbs to wear out • Eight 3-watt LEDs with TIR optics produce an exceptionally bright warning device • Temperature range: -22°F to +122°F (-30°C to +50°C) • Polycarbonate lens with UV hard coating – reduces cracking/hazing/fading

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>VMRS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>76683</td>
<td>LED Rotating Beacon Amber Tall Dome</td>
<td>034-006-056</td>
</tr>
<tr>
<td>76685</td>
<td>LED Rotating Beacon Blue Tall Dome</td>
<td>034-006-056</td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate

**Standards:** SAE J845™ Class I (Amber); Class II (Blue)

**Volts / Amps:** 12–24V / 1.7A

**VMRS Code:** 034-006-056

---

**LED DUAL COLOR BEACONS, CLASS I**

S-Link™ System* synchronizing capabilities with up to six other units Allows for synchronization with other S-Link™ compatible products • Change color selection with the flip of a switch • Circuit boards are conformal coated to protect circuitry • 3-hole permanent mount, 1" pipe mount

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>VMRS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>78070</td>
<td>LED Beacon Amber/Green Short Lens</td>
<td>034-006-056</td>
</tr>
<tr>
<td>78071</td>
<td>LED Beacon Amber/Clear Short Dome</td>
<td>034-006-056</td>
</tr>
<tr>
<td>78075</td>
<td>LED Beacon Amber/Blue Short Dome</td>
<td>034-006-056</td>
</tr>
<tr>
<td>78080</td>
<td>LED Beacon Amber/Green Tall Lens</td>
<td>034-006-056</td>
</tr>
<tr>
<td>78081</td>
<td>LED Beacon Amber/Clear Tall Dome</td>
<td>034-006-056</td>
</tr>
<tr>
<td>78085</td>
<td>LED Beacon Amber/Blue Tall Dome</td>
<td>034-006-056</td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate

**Standards:** SAE J845™ Class I (not SAE approved 78080, 78070)

**Volts / Amps:** 12–24V / 0.6A at 12V

**Accessory:** 4" Branch Guard 98470; 6" Branch Guard 98460

**Lens:** 98171, 98221

**VMRS Code:** 034-006-056

---

**LED COMPACT BEACON, CLASS I**

12 different selectable flash patterns plus steady-on • Permanent mount base with ½" pipe mount • SAE Class I beacon in a compact design

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>VMRS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>79093</td>
<td>LED Beacon, Amber, Compact Base 12–24V</td>
<td>034-006-056</td>
</tr>
<tr>
<td>98513</td>
<td>7909 Amber Replacement Lens</td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate

**Standards:** SAE J845™ Class I

**Volts / Amps:** 12–24V / 0.5A at 12V

**Lens:** 98513

**Bracket:** 93604 - 1/2" Mirror Mounting Bracket

**VMRS Code:** 034-006-056
**LED BEACONS, CLASS II, SHORT DOME**

26 customer-selectable flash patterns, plus steady-on  •  Circuit board is conformal coated to protect circuitry  •  Permanent mount – Durable, lightweight polycarbonate base, flange 3-hole permanent mount, 1" pipe mount.  •  Vac-mount and Magnet Mount, durable, lightweight polycarbonate base, vacuum magnet mount with aux. Plug (on/off and pattern select switch)

- 78851 LED Beacon Clear Short Dome
- 78853 LED Beacon Amber Short Dome
- 78855 LED Beacon Blue Short Dome

**MAGNET MOUNT WITH AUXILIARY ADAPTER:**

- 78861 LED Beacon Clear Vac-Mount
- 78863 LED Beacon Amber Vac-Mount
- 78865 LED Beacon Blue Vac-Mount

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class II (78851, 78853, 78861, 78863); Class III (78855, 78865)  
**Volts / Amps:** 78851: 12–24V / 0.35A at 12V; 12V / 0.35A  
**Lens:** 78821, 78823, 98225  
**VMRS Code:** 034-006-056

---

**LED BEACONS, CLASS II, TALL DOME**

26 customer-selectable flash patterns, plus steady-on  •  Circuit board is conformal coated to protect circuitry  •  Durable, lightweight polycarbonate base, flange 3-hole permanent mount, 1" pipe mount

- 78061 LED Beacon Clear Tall Dome, Clear
- 78063 LED Beacon Amber Tall Dome, Amber
- 78065 LED Beacon Blue Tall Dome, Blue

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class II  
**Volts / Amps:** 12–24V / 0.35A at 12V  
**Accessory:** 6" Branch Guard 98460  
**Lens:** 98171, 98173, 98175  
**VMRS Code:** 034-006-056

---

**LED BEACON, CLASS II**

Rated life of LED strobes is up to 50 times longer than standard strobes  •  SignalAlert provides greater visibility by creating a varied flash pattern vs. standard strobes with a consistent flash pattern  •  LED beacon design internally houses the flash control, eliminating the need for an external power supply or ballast  •  Scan-Lock™ flash pattern allows the user to manually select from 14 permanent flash patterns

- 77813 LED Beacon Amber Short Dome
- 77833 LED Beacon Amber Tall Dome

**MAGNET MOUNT WITH AUXILIARY ADAPTER:**

- 77823 LED Beacon Amber Short Dome
- 77843 LED Beacon Amber Tall Dome

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class II  
**Volts / Amps:** 12V / .65A max  
**VMRS Code:** 034-006-056
**LED DIN MOUNT BEACONS, CLASS II**

Lightweight and durable polycarbonate base with flexible DIN mount

- Modular circuit completely encapsulated for increased shock/weather resistance
- Quad flash pattern

78122  Red DIN Mount Beacon
78123  Amber DIN Mount Beacon
78125  Blue DIN Mount Beacon

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class II (Amber, Blue); Class III (Red)  
**Volts / Amps:** 12–24V / 0.4A at 12V  
**Mounting Stem:** 43665  
**VMRS Code:** 034-006-056

---

**LED BEACONS, CLASS III**

Circuit board is conformal coated to protect circuitry

- Easy “Twist-off” lens for ease of replacement
- Lightweight, durable polycarbonate base

78091  LED White Compact Perm Mount
78092  LED Red Compact Perm Mount
78093  LED Amber Compact Perm Mount
78094  LED Green Compact Perm Mount
78095  LED Blue Compact Perm Mount

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class III (Amber Only)  
**Volts / Amps:** 12–72V / 0.17A at 12V  
**Lens:** 98283, 98284, 98285, 98281, 98282  
**VMRS Code:** 034-006-056

---

**MIGHTY MINI LED BEACON, CLASS III**

Rated life of LED strobes is up to 100 times longer than standard strobes

- SignalAlert provides greater visibility by creating a varied flash pattern (vs. standard strobes with a consistent flash pattern)
- Exclusive side-emitting LED technology rivals standard strobe intensity with a single super LED diode
- LED beacon design internally houses the flash control, eliminating the need for an external power supply or ballast
- 90 flashes per minute

77473  LED Amber Compact Perm Mount

**MAGNET MOUNT WITH AUXILIARY ADAPTER:**

77483  LED Amber Compact Mag Mount

**Standards:** SAE J845™ Class III  
**Material:** Polycarbonate  
**Volts / Amps:** 12V / .15A  
**VMRS Code:** 034-001-021
**MIGHTY MINI STROBE**

Rugged fiberglass-filled nylon base and polycarbonate lens • Wide voltage operating range • Field-replaceable lens and flash tube • Thread-on lens • 80 flashes per minute; 1.5 joules • Reverse polarity and voltage spike protected

<table>
<thead>
<tr>
<th>SINGLE FLASH, PERMANENT MOUNT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>77101 White</td>
</tr>
<tr>
<td>77102 Red</td>
</tr>
<tr>
<td>77103 Amber</td>
</tr>
<tr>
<td>77105 Blue</td>
</tr>
</tbody>
</table>

Material: ABS / Polycarbonate  
Volts / Amps: 11–80V / .25A at 12V  
Accessory: Flash Tube: 92980  
Lens: Amber 92033, 92031, 92032, 92035  
VMRS Code: 034-001-063

---

**LED MATERIAL HANDLING BEACON, CLASS III**

Compact and powerful LED light output • Easy twist-off lens for ease of replacement • Available flash patterns: single, double and quad • Rated life of LED strobes is up to 50 times longer than standard strobes.

<table>
<thead>
<tr>
<th>78113 LED Amber Material Handling Beacon</th>
</tr>
</thead>
</table>

Material: Polycarbonate  
Standards: SAE J845™ Class III  
Volts / Amps: 12–72V / 0.17A at 12V  
Lens: 98293  
VMRS Code: 034-001-063

---

**MATERIAL HANDLING STROBE**

Electronics sealed in epoxy to protect against dust, moisture and vibration • Thread-on lens for easy maintenance • Field-replaceable flash tube • 80 flashes per minute (single flash) • 2 joules per flash

| 77012 Red Material Handling Beacon  |
| 77013 Amber Material Handling Beacon |

Material: Nylon / Polycarbonate  
Volts / Amps: 12–110V / .6A at 12V  
Accessory: Flash Tube: 92960  
VMRS Code: 034-001-063

---

*WWW.GROTE.COM* | © 2019 All Rights Reserved, Grote Industries, Inc.
**ECONOMY MATERIAL HANDLING STROBE**

Thread-on lens for easy maintenance  •  Polycarbonate lens and fiberglass-filled nylon base  •  Reverse polarity and voltage spike protected  •  45 lbs. pull magnet for temporary mounting with 12" adapter plug  •  1.5 joules per flash, 70 flashes per minute (single flash)  •  Replaceable flash tube  •  Removable 1/2 hood included

77203  Amber Compact Mag Mount

**Material:** Polycarbonate  
**Volts / Amps:** 12–80V / .3A at 12V  
**Accessory:** Flash Tube: 92980  
**Lens:** Amber 92033  
**VMRS Code:** 034-001-063

---

**360° PORTABLE BATTERY OPERATED LED WARNING LIGHT**

24 ultra-bright LEDs help conserve battery life  •  300–400 hours of operation on 2 D batteries (not included)  •  60 triple flashes per minute  •  Strong magnet base holds lamp in place on a metal surface  •  Photocell adjust intensity for low-light situation

77912  Red  
77913  Amber

**Material:** Nylon / Polycarbonate  
**VMRS Code:** 034-001-021

---

**DIRECTIONAL, PORTABLE, BATTERY-OPERATED LED WARNING LIGHT**

Push-button operation  •  72 hours of operation on 2 AA batteries (not included)  •  Includes a magnetic base and is adjustable 180°  •  Additional reflective lens as added safety feature  •  3 user-selectable flash patterns

77923  Amber

**Material:** Nylon / Polycarbonate  
**VMRS Code:** 034-001-021

---

**ECONOMY 360° FLASHING AUXILIARY WARNING LAMP KIT**

For use when maximum warning is not required  •  Bright chrome-plated steel weather-proof base  •  60–90 flashes per minute  •  Flasher can be bypassed for steady burn

76083  Amber

**Material:** Steel / Acrylic  
**Bulb:** #1295, 50 CP  
**Volts / Amps:** 12V / 3A  
**Lens:** 90353  
**VMRS Code:** 034-001-021

---
**TWO SEALED-BEAM ROTO-BEACON, CLASS I**

Clutched gear box is sealed and permanently lubricated • Revolves 360°, 60–120 flashes per minute

**76223**  Amber

Material: Stainless Steel / Aluminum / Acrylic / Polycarbonate

Bulb: 7400 SB, 33,000 CP

Standards: SAE J845™ Class I

Volts / Amps: 12V / 5.9A

Lens: 90373

VMRS Code: 034-006-056

---

**COMPACT FOUR SEALED-BEAM ROTO-BEACON, CLASS I**

Clutched gear box design and “suitcase” latch design • Permanently lubricated sealed gear box • Revolves 360°, 60-120 flashes per minute

**76203**  Amber

Material: Stainless Steel / Aluminum / Acrylic / Polycarbonate

Bulb: 7400 SB, 33,000 CP

Standards: SAE J845™

Volts / Amps: 12V / 11.7A

Lens: 90373

VMRS Code: 034-006-056

---

**TEARDROP “KOJAK” LIGHT**

Low-power consumption light • Auxiliary power plug with coiled cord • Magnetic mount

**76033**  Amber

Material: Acrylic

Bulb: 67, 4 CP

Volts / Amps: 12V / 1.64A

VMRS Code: 034-001-021
**LED MINI LIGHT BARS, CLASS I**

- **S-Link™ System**
- **Synching capabilities with up to six other units**
- **Allow for synchronization with other S-Link™ compatible products (Magnet Mount not S-Link™ compatible)**
- **Low profile reduces drag and friction**
- **20 customer selectable flash patterns via external pattern select wire**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>78020</td>
<td>LED Amber/Blue Minibar w/ Clear Lens</td>
<td></td>
</tr>
<tr>
<td>78023</td>
<td>LED Amber Minibar</td>
<td></td>
</tr>
<tr>
<td>78024</td>
<td>LED Green Minibar</td>
<td></td>
</tr>
<tr>
<td>78025</td>
<td>LED Blue Minibar</td>
<td></td>
</tr>
<tr>
<td>79053</td>
<td>LED Amber Minibar w/ Clear Lens</td>
<td></td>
</tr>
</tbody>
</table>

**MAGNET MOUNT WITH AUXILIARY ADAPTER:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>78130</td>
<td>LED Amber/Blue Minibar Vac-Mount</td>
<td></td>
</tr>
<tr>
<td>78133</td>
<td>LED Amber Minibar Vac-Mount</td>
<td></td>
</tr>
<tr>
<td>78135</td>
<td>LED Blue Minibar Vac-Mount</td>
<td></td>
</tr>
<tr>
<td>78443</td>
<td>LED Amber Minibar Mag-Mount</td>
<td></td>
</tr>
<tr>
<td>79060</td>
<td>LED Amber Minibar w/ Clear Lens</td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class I; not SAE approved (78024)  
**Volts / Amps:** 12–24V / 2.3A at 12V  
**Lens:** 98311, 98313, 98314, 98315  
**VMRS Code:** 034-001-021

---

**AMBER TOW BARS, CLASS I**

- **Built in stop/tail/turn functionality with rear-facing work lights (select models)**
- **Ability to isolate extra bright front and rear amber LED modules with separate enable wires**
- **12 customer selectable flash patterns**
- **Low profile design at 2 1/2" high**
- **Includes simple bracket for permanent mounting or optional gutter kits are available for various makes and models of vehicles.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>79153</td>
<td>58&quot; Amber Towbar with S/T/T and Worklights</td>
<td></td>
</tr>
<tr>
<td>79143</td>
<td>51&quot; Amber Towbar with S/T/T and Worklights</td>
<td></td>
</tr>
<tr>
<td>79133</td>
<td>51&quot; Amber Towbar</td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Aluminum base - Polycarbonate Lens  
**Standards:** SAE J845™ Class I  
**Volts / Amps:** 12V  
**Accessories:** 98542 - Tow Bar Bracket for Spotlight, 98532 - Optional Roof Mount Bracket, 42400 - 4.6" Flex Gutter Kit, 42410 - 6.2" Flex Gutter Kit, 42420 - 8.4" Flex Gutter Kit  
**VMRS Code:** 034-001-021
17” LOW-PROFILE LED MINI LIGHTBAR, CLASS I/II

Low profile provides high performance characteristics of LED lighting in a small size • 6 internal LED modules provide 360° light output • Built-in electronic flasher with 46 Scan-Lock™ flash patterns (30 for 76770, 76983, 76993) plus 4 simulated rotating patterns (permanent-mount version only) • Permanent mount includes 8’ pigtail; magnetic mount includes 8’ straight cord with accessory plug that includes LED indicator switch • Permanent mount on 14 1/16” x 3 7/16” hole centers • Mounting hardware and instructions included

PERMANENT MOUNT:

- 76983 Amber
- 76770 Amber/Blue, Clear Lens, Dual Function
- 76943 Amber, Clear Lens
- 76980 Amber/White Split LEDs / Clear Lens
- 76985 Blue

MAGNET MOUNT WITH AUXILIARY ADAPTER:

- 76990 Amber/White Split LEDs / Clear Lens
- 76993 Amber
- 76953 Amber, Clear Lens

Material: Polycarbonate
Standards: SAE J845 Class I (Amber); Class: II (Blue)
Volts / Amps: 12V / 3A peak / 1.2A avg
Lens: 99213
VMRS Code: 034-001-021

COMPACT MINI BAR ULTRA-LOW PROFILE, CLASS I

22 customer-selectable flash patterns via external pattern select wire on permanent models • Ultra-low profile reduces drag and friction • Magnetic mounted products come complete with an auxiliary power plug for on/off function and 22 user selectable flash patterns • Can be used in various applications such as pick-up trucks, cars or heavy duty vehicles.

- 77223 Single-Bolt Mount Bracket
- 77803 Magnet Mount

Material: Polycarbonate
Standards: SAE J845 Class I
Volts / Amps: 12–24V / 2.0A at 12V
VMRS Code: 034-001-021

LED MINI STROBE LIGHT BARS, CLASS II

17 selectable flash patterns in either of two phases, or steady-on • Full gasket protects lamp internal components from dirt, grime and other contaminants

- 79043 LED Amber Dual Strobe Minibar

Material: Polycarbonate
Standards: SAE J845™ Class II
Volts / Amps: 12–24V / 0.8A at 12V
Lens: 98373, 98383
VMRS Code: 034-001-021
**INCOANDESCENT MINI LIGHT BARS, CLASS I**

Gasket between lens and base for increased protection of internal components  •  Durable polycarbonate plastic base

**78513  **  Amber Dual Rotator Minibar, Amber

**Material:** Polycarbonate  
**Standards:** SAE J845™ Class I  
**Volts / Amps:** 12V / 8A at 12V  
**Lens:** 98373, 98383  
**VMRS Code:** 034-001-021

---

**LED DIRECTIONAL WARNING LIGHTS, CLASS I/II**

S-Link™ system synchronizing capabilities with up to six other units  
•  Allows for synchronization with other S-Link™ compatible products  
•  Ultra low profile; single and split color models  
•  Robust design, die-cast aluminum base  
•  12 different selectable flash patterns in either of two phases, plus steady-on

**6-DIODE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>78140</td>
<td>LED Amber/Green Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78141</td>
<td>LED Clear Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78142</td>
<td>LED Red Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78143</td>
<td>LED Amber Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78144</td>
<td>LED Green Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78145</td>
<td>LED Blue Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78146</td>
<td>LED Amber/Blue Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78460</td>
<td>LED Amber/Clear Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78460-5</td>
<td>LED Amber/Clear Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>79080</td>
<td>LED Red/White Directional</td>
<td>[XX]</td>
</tr>
</tbody>
</table>

**3-DIODE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>78161</td>
<td>LED Clear Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78162</td>
<td>LED Red Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78163</td>
<td>LED Amber Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78163-1</td>
<td>Display pack (4 LED Amber 78163)</td>
<td>[XX]</td>
</tr>
<tr>
<td>78164</td>
<td>LED Green Directional</td>
<td>[XX]</td>
</tr>
<tr>
<td>78165</td>
<td>LED Blue Directional</td>
<td>[XX]</td>
</tr>
</tbody>
</table>

**Material:** Die-cast Aluminum Base  
**Standards:** SAE J595™ Class I - 78141, 78142, 78143, 78145; Class II - 78146, 78460  
**Volts / Amps:** 12–24V / 0.55A at 12V (78140, 78141, 78142, 78143, 78144, 78145, 78146, 78460); 12V / 0.3A at 12V (78161, 78162, 78163, 78164, 78165)  
**Accessory:** (6-diode only) Chrome Bezel 98390, White Bezel 98400, License Bracket 98350, L Bracket 98360  
**VMRS Code:** 034-001-021

---

**LED 6-DIODE TRI-COLOR DIRECTIONAL WARNING LIGHTS, CLASS I**

18 different selectable flash patterns in either of two phases  
•  3 independent power wires give you the ability to control each color and pattern independently  
•  Ultra-low-profile can be mounted to almost any flat surface  
•  S-Link™ system synchronizing capabilities allows for synchronization with other S-Link™ compatible products.

**79100**  LED Amber/Blue/White Directional  
**79110**  LED Amber/Green/White Directional  
**79120**  LED Amber/Red/White Directional

**Material:** Die-cast Aluminum Base  
**Standards:** SAE J595™ Class I (Amber, Blue, Red and White colors only)  
**Volts / Amps:** 12–24V / 0.8A at 12V  
**VMRS Code:** 034-001-021
**LED DIRECTIONAL WARNING LAMP, CLASS I**

Versatile LED directional warning light can be synchronized with up to 8 interconnected modules and 25 different built-in flash patterns
- Fully encapsulated, sturdy polycarbonate construction coupled with a dependable gasket design ensures superb moisture and vibration resistance
- Self-contained high intensity, wide-angle LED module
- Horizontal/surface mount only

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>77461</td>
<td>Clear</td>
</tr>
<tr>
<td>77462</td>
<td>Red</td>
</tr>
<tr>
<td>77463</td>
<td>Amber</td>
</tr>
<tr>
<td>77465</td>
<td>Blue</td>
</tr>
</tbody>
</table>

**Standards:** SAE J845™ Class I  
**Material:** Polycarbonate / Aluminum  
**Standards:** SAE J595™ and J845™  
**Volts / Amps:** 12V / .16A  
**VMRS Code:** 034-001-021

---

**LED DIRECTIONAL WARNING LAMPS**

S-Link™ system synchronizing capabilities with up to six other units
- Allows for synchronization with other S-Link™ compatible products
- Ultra low profile; Single and split color models  
- Robust design, die cast aluminum base  
- 12 different selectable flash patterns in either of two phases, plus steady-on

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model</th>
<th>Color</th>
<th>Bezel</th>
</tr>
</thead>
<tbody>
<tr>
<td>79033</td>
<td>Mini LED Amber W/Bezel</td>
<td>MRED</td>
<td></td>
</tr>
<tr>
<td>79033-5</td>
<td>Mini LED Amber W/Bezel</td>
<td>CLEAR</td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Die-cast Aluminum Base  
**Volts / Amps:** 12–24V / 0.6A at 12V  
**VMRS Code:** 034-001-021

---

**LED VERTEX HIDEAWAY WARNING LAMP, CLASS V**

Ultra-small, self-contained, hemispheric LED light for surface or internal mount within composite headlight, cornering lights and tail light assemblies.
- Flange kit options (in black or chrome) allow easy surface mounting anywhere on your vehicle.  
- 25 Scan-Lock™ flash patterns include a synchronize feature for alternating and synchronous flashing of multiple lamps.  
- Simple installation; no separate lamp drivers, flashers, ballast or power supplies  
- 9-ft. cable length

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>77931</td>
<td>Clear</td>
</tr>
<tr>
<td>77932</td>
<td>Red</td>
</tr>
<tr>
<td>77933</td>
<td>Amber</td>
</tr>
</tbody>
</table>

**Material:** Polycarbonate / Aluminum  
**Standards:** SAE J1113-41™ Class 5  
**Volts:** 10–16V / .75A at 12V  
**Bracket:** Black 97943, Chrome 97942  
**VMRS Code:** 034-001-021
AUXILIARY LED WARNING LAMP, CLASS I

4 high-power LEDs with 19 flash patterns • Synchronize option lets you connect multiple heads • Mount anywhere with adjustable bracket • Compact unit with robust aluminum housing for all types of 12V–24V application

76792  Red  [MOL]
76793  Amber  [MOL]
76793-5  Amber  [MOL] [GPO]
76795  Blue  [MOL]

Material: Aluminum
Standards: SAE J595™ Class I
Volts / Amps: 11–30V / .055A at 12V, .026 at 24V
VMRS Code: 034-001-021

WING-TIP LED SNOWPLOW WARNING LAMP, CLASS I

LED strobe light modules with 11 light patterns • Water proof TPR cabling w/ built-in strain relief connectors • Encapsulated housing resists vibration, water, salt and chemicals • When both lamps are used the set provides complete coverage whether snowplow blade is down and in use or in the stored travel position

78563  Horizontal
78573  Vertical

Material: Die-Cast Aluminum
Standards: SAE J845™ Class I
Volts / Amps: 12V / .6A
VMRS Code: 034-001-021

LED WARNING LAMP IN RUBBER HOUSING

Durable rubber lamp housings • Versatile mounting (hardware included) • Molded UBS .180 bullet terminals • Pre-wired for quad or dual flash

77193  Amber

Material: Rubber / Polycarbonate / Acrylic
Standards: SAE J595™ Class II
Volts / Amps: 12V / 25A
Accessory: Lamp: Red 77352, Amber 77353, Blue 77355, Clear 77351; Housing 64930; Magnet Mount 43300
VMRS Code: 034-001-063
**4" LED AUXILIARY WARNING LAMP, CLASS II/III**

Encapsulant potting offers maximum protection of the circuit board against dirt, moisture and corrosion - Internal circuitry eliminates the need for an external power supply or control module - Functions as either a dual flash strobe or a quad flash strobe - Lamps mount in any orientation - Grote’s rugged Plug-and-Go® terminals make for a quick, easy connection every time

- **77351** White
- **77352** Red
- **77353** Amber
- **77355** Blue

**Material**: Polycarbonate / Acrylic  
**Standards**: SAE J595™ Class II (Red, Amber); Class III (Blue)  
**Volts / Amps**: 12V / .25A  
**Bracket**: 43253, 92510, 92512, 92513, 43572, 43642, 43655; Grommet: 91740, 91950; Pigtail: 66815, 66841, 67002, 66842, 67013, 66816, 66845, 67005, 66823, 66830, 67016, 66846  
**VMRS Code**: 034-001-021

**OVAL LED AUXILIARY WARNING LAMPS, CLASS II/III**

Encapsulant potting offers maximum protection of the circuit board against dirt, moisture and corrosion - Internal circuitry eliminates the need for an external power supply or control module - Functions as either a dual-flash strobe or a quad-flash strobe - Lamps mount in any orientation - Grote’s rugged Plug-and-Go® terminals ensure a quick, easy connections every time

- **77361** Clear
- **77362** Red
- **77363** Amber
- **77365** Blue

**Material**: ABS / Acrylic  
**Standards**: SAE J595™ Class II (Red, Amber) quad; Class III (Blue, Amber) dual  
**Volts / Amps**: 12V / .25A  
**Bracket**: 43362, 43952, 43220, 43223, 43222, 43100; Grommet: 92420, 92720  
**Pigtail**: 66815, 66841, 67002, 66842, 67013  
**VMRS Code**: 034-001-021

**LED OVAL WARNING LAMP**

S-Link™ system synchronizing capabilities with up to six other units - Allows for synchronization with other S-Link™ compatible products - Grommet mount can be converted to surface mount with optional chrome or black bezels - 12 different selectable flash patterns in either of 2 phases plus steady-on - Only .69" thick

- **78190** LED 6" Oval Amber/Blue, Clear Lens
- **78191** LED 6" Oval Clear, Clear Lens
- **78193** LED 6" Oval Amber, Amber Lens
- **78194** LED 6" Oval Green, Clear Lens
- **78195** LED 6" Oval Blue, Clear Lens

**Material**: Polycarbonate  
**Standards**: SAE J595™ Class I (78190, 78191, 78193, 78195); (Green not SAE approved)  
**Volts / Amps**: 12–24V / 0.3A at 12V  
**Accessory**: Black Bezel 98410, Chrome Bezel 98480  
**VMRS Code**: 034-001-021
**LED TRAFFIC STICKS, CLASS I**

34 customer-selectable warning flash patterns plus 5 phase options  • Made from durable extruded aluminum — will not warp or bend  • Front load for easy replacement of individual heads  • 20” model comes with a 2’ three-wire cable (power, ground, program select)  • 30” & 40” models come with a 25’ six-wire cable, (power, ground, program wire, left enable, right enable, warn enable, center-out = L + R)  • 30” & 40” models come with a 25’ six-wire cable, (power, ground, program wire, left enable, right enable, warn enable, center-out = L + R)

78370  LED Amber 20’ Warning Stick
78380  LED Amber 30’ Traffic Director
78410  LED Amber 40’ Traffic Director

**Material:** Black Anodized Aluminum
**Standards:** SAE J595™ Class I; Green not SAE approved
**Volts / Amps:**
- 12V / 2A (78370)
- 12V / 6A (78380)
- 12V / 8A (78410)
**Accessory:** Replacement Modules - Amber 98343, 98345
Blue, 98341 White, 98342 Red, 98344 Green
**VMRS Code:** 034-001-021

---

**LED TRAFFIC DIRECTORS & ARROW STICKS**

Made from durable extruded aluminum — Traffic Directors will not warp or bend  • Front load for easy replacement of individual heads  • Ships complete with backlit control unit, attached quick-disconnect wire harness (15’ standard), L-brackets, hardware, and instructions

78200  LED Amber Traffic Director
78210  Small LED Amber Traffic Arrow
78270  Large LED Amber Traffic Arrow

**Material:** Black Anodized Aluminum
**Volts / Amps:**
- 12V / 2.4A (78200)
- 12V / 3.6A (78210)
- 12V / 4.8A (78270)
**Accessory:** Amber Module 98333, Control Box 98522, 10’ Extension Cable 66650, 20’ Extension Cable 66660, 40’ Extension Cable 66670
**VMRS Code:** 034-001-021
MEDIUM / LOW NOISE SURROUND BACK-UP ALARM

Electronics sealed in epoxy for protection against dust, vibration and moisture • Self-grounding, eliminates potential corrosion points • Universal integral mounting bracket • Voltage-spike and surge-protected

- 73040 97 dB, w/ Wire Studs
- 73040-5 97 dB, w/ Wire Studs
- 73090 107 dB, w/ Wire Leads
- 73110 82–102 dB

Material: Glass-Filled Nylon with Wire Leads
Standards: SAE J994™ Type B (73090); Type C (73040); Type F (73110)
Finish: Blue
Volts / Amps: 12–24V / .4A at 12V
VMRS Code: 054-002-001

REVERSE MOUNTED SPEAKER BACK-UP ALARM

Features hardwire terminations • Integral mounting bracket • Electronics completely encapsulated in potting for total circuit board protection

- 73250 107 dB
- 73240 81–107 dB
- 73360 97dB Dual-Tone
- 73370 102dB Dual-Tone
- 73350 97dB Dual-Function

Material: Glass-Filled Nylon
Standards: SAE J994™ Type B (73250); Type F (73240);
Type C (73350, 73360) Back-up function only;
Type B (73370) Back-up function only
Finish: Blue
Volts / Amps: 12–24V / 1.7A at 12V (73250)
12–24V / 3A at 12V (73240)
12–24V / .3A at 12V (73360)
12–24V / .7A at 12V (73370)
12–24V / .3A at 12V (73350)
VMRS Code: 054-002-001
REVERSE MOUNTED SPEAKER
BACK-UP ALARM

- Rugged construction glass-filled nylon housings
- Electronics sealed in epoxy for protection against dust, vibration and moisture
- Universal mounting including grommet mounted products
- Available in a range of decibel output levels to fit a wide variety of application needs

73030  107–112 Selectable dB
73070  112 dB
73080  87–112 dB, Self-Adjusting

Material: Glass-Filled Nylon
Standards: SAE J994™ Type F (73080, 73030); Type A (73070)
Finish: Blue
Volts / Amps: 12–24V / .6A at 12V (73080, 73030)
12–24V / 0.3A at 12V (73070)
VMRS Code: 054-002-001

BACK-UP ALARMS – MULTI FREQUENCY

Select the right alarm that will best suit your unique environments
- Superior performance and protection from damage to the speaker due to its reverse mounted speaker

73170  107 dB, Multi-Freq
73310  97 dB, Multi-Freq

Material: Glass-Filled Nylon
Finish: Blue
Standards: SAE J994™ Type B (73170); Type C (73310)
Volts / Amps: 12–24V / 0.3A at 12V
VMRS Code: 054-002-001

4" GROMMET MOUNTED BACK-UP ALARM

Mounts in standard 4" grommet (grommet not included)
- Epoxy sealed to protect against dust, moisture, and vibration

73160  107 dB
73220  97 dB

Material: Glass-Filled Nylon
Standards: SAE J994™ Type B (73160); Type C (73220)
Finish: Black
Volts / Amps: 12–24V / .4A at 12V
Grommet: 91740
VMRS Code: 054-002-001
ELECTRIC AUTOMOTIVE HORN

Complete with mounting bracket

**FOR IMPORT VEHICLES:**
- 72010-5  High Tone, 135 dB
- 72100-5  High Tone, 125 dB
- 72110-5  Low Tone, 125 dB

**FOR DOMESTIC VEHICLES:**
- 72010-5  High Tone, 125 dB
- 72110-5  Low Tone, 125 dB

**Material:** Steel
**Standards:** SAE J377™
**Finish:** Black Enamel
**Volts / Amps:** 12V
**VMRS Code:** 054-001-001

BEEPING BACK-UP HALOGEN BULB

Combination audible back-up safety device and lamp in one
- Provides a clear beeping sound when vehicle shifts into reverse gear
- Alarm does not meet OSHA and SAE J994™ requirements for commercial back-up alarms

**BAYONET BASE: (1156 REPLACEMENT)**
- 73140-5

**WEDGE BASE: (3156 REPLACEMENT)**
- 73150-5

**Volts / Amps:** 12V / 1.67A
**VMRS Code:** 054-002-001

STROBE POWER MODULE

The Grote® 99630 “X” control strobe module is ideal for use on refuse and waste management vehicles, yard work machines and construction vehicles using a 12V power system wherever a strobing “X” pattern is desired
- This module will provide the necessary strobing functionality with both LED oval and round lamp systems
- The system utilizes Grote® designed and built circuitry for optimum signal management
- Unit is designed with over-voltage circuit protection and signal and back-up over-rides turn strobe function off when the back-up, left and right turn signals are engaged

99630  Strobe Power Module

**Material:** Polycarbonate
**Strobe Function:** “X” Pattern function
**Input Voltage:** 12.8V
**Dimensions:** 1.265” high x 5.44” long
**Max amp draw:** Unit contains a 5 AMP fuse
**VMRS Code:** 034-002-001

ACTUATION SWITCH

Often utilized with back-up alarms
- Activates when shifting vehicle into reverse

44134  Switch

**Material:** Steel
**Finish:** Zinc Plate
**Volts / Amps:** 12–36V / 5A max
**VMRS Code:** 034-004-081
**ACTUATION SWITCH**

Heavy-duty usage • Mechanical actuation • Includes mounting bracket and weather-proof compression fitting

44421 Switch

Material: Steel
Finish: Zinc
Volts / Amps: 12–80V / 10A max
VMRS Code: 034-003-018

---

**REPLACEMENT LENSES**

<table>
<thead>
<tr>
<th>LENS MODEL NUMBER</th>
<th>FITS LAMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>98225</td>
<td>78035</td>
</tr>
<tr>
<td></td>
<td>78045</td>
</tr>
<tr>
<td></td>
<td>78055</td>
</tr>
<tr>
<td></td>
<td>78065</td>
</tr>
<tr>
<td>98251</td>
<td>78010</td>
</tr>
<tr>
<td></td>
<td>78011</td>
</tr>
<tr>
<td></td>
<td>79021</td>
</tr>
<tr>
<td>98253</td>
<td>78013</td>
</tr>
<tr>
<td></td>
<td>79023</td>
</tr>
<tr>
<td>98255</td>
<td>78015</td>
</tr>
<tr>
<td></td>
<td>79025</td>
</tr>
<tr>
<td>98271</td>
<td>78010</td>
</tr>
<tr>
<td></td>
<td>78011</td>
</tr>
<tr>
<td></td>
<td>78013</td>
</tr>
<tr>
<td></td>
<td>78015</td>
</tr>
<tr>
<td></td>
<td>79070</td>
</tr>
<tr>
<td></td>
<td>79071</td>
</tr>
<tr>
<td></td>
<td>79072</td>
</tr>
<tr>
<td></td>
<td>79073</td>
</tr>
<tr>
<td></td>
<td>79074</td>
</tr>
<tr>
<td>98283</td>
<td>78033</td>
</tr>
<tr>
<td></td>
<td>78103</td>
</tr>
<tr>
<td>98284</td>
<td>78094</td>
</tr>
<tr>
<td></td>
<td>78104</td>
</tr>
<tr>
<td>98285</td>
<td>78095</td>
</tr>
<tr>
<td></td>
<td>78105</td>
</tr>
<tr>
<td>98281</td>
<td>78091</td>
</tr>
<tr>
<td></td>
<td>78101</td>
</tr>
<tr>
<td>98282</td>
<td>78092</td>
</tr>
<tr>
<td></td>
<td>78102</td>
</tr>
<tr>
<td>98293</td>
<td>78113</td>
</tr>
<tr>
<td>98311</td>
<td>78020</td>
</tr>
<tr>
<td></td>
<td>78130</td>
</tr>
<tr>
<td></td>
<td>79053</td>
</tr>
<tr>
<td></td>
<td>79060</td>
</tr>
<tr>
<td>98313</td>
<td>78023</td>
</tr>
<tr>
<td></td>
<td>78133</td>
</tr>
<tr>
<td></td>
<td>78443</td>
</tr>
<tr>
<td>98314</td>
<td>78024</td>
</tr>
<tr>
<td>98315</td>
<td>78025</td>
</tr>
<tr>
<td></td>
<td>78135</td>
</tr>
<tr>
<td>98373</td>
<td>78513</td>
</tr>
<tr>
<td></td>
<td>79023</td>
</tr>
<tr>
<td></td>
<td>79043</td>
</tr>
<tr>
<td>98383</td>
<td>79023</td>
</tr>
<tr>
<td></td>
<td>79043</td>
</tr>
<tr>
<td>98513</td>
<td>79093</td>
</tr>
</tbody>
</table>

S-Link™ is a trademark of Star1889 Headlight & Lantern Co.; Scan-Lock™ is a trademark of Whelen Engineering

All product and company names are trademarks™ or registered® trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.