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

78010	LED Amber/Blue Beacon w/ Clear Dome	*MULTI*
78011	LED Clear Beacon w/ Clear Dome	*MULTI*
78013	LED Amber Beacon w/ Clear Dome	*MULTI*
78015	LED Blue Beacon w/ Clear Dome	*MULTI*
79070	LED Amber/Green Beacon w/Clear Dome	*MULTI*

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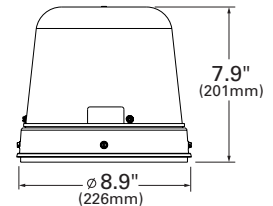**VMRS Code:** 034-006-056

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

79071	LED Clear Beacon w/Clear Dome	*MULTI*
79073	LED Amber Beacon w/Clear Dome	*MULTI*
79075	LED Blue Beacon w/Clear Dome	*MULTI*
79074	LED Green Beacon w/Clear Dome	*MULTI*

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

78013

78010

78015

7.9"
(201mm)

⌀ 8.9"
(226mm)

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.
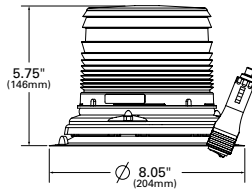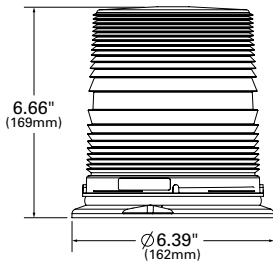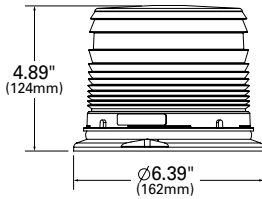
LED

78031

78053

78045

4.89"
(124mm)

Ø6.39"
(162mm)

6.66"
(169mm)

5.75"
(146mm)

Ø 8.05"
(204mm)

Ø6.39"
(162mm)

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

78030	LED Beacon Amber LED Clear Short Dome	MULTI
78031	LED Beacon Clear Short Dome	MULTI
78032	LED Beacon Red Short Dome	MULTI
78033	LED Beacon Amber Short Dome	MULTI
78034	LED Beacon Green Short Dome	MULTI
78035	LED Beacon Blue Short Dome	MULTI
78050	LED Beacon Amber LED Clear Tall Dome	MULTI
78051	LED Beacon Clear Tall Dome	MULTI
78052	LED Beacon Red Tall Dome	MULTI
78053	LED Beacon Amber Tall Dome	MULTI
78054	LED Beacon Green Tall Dome	MULTI
78055	LED Beacon Blue Tall Dome	MULTI

MAGNET MOUNT WITH AUXILIARY ADAPTER:

78041	LED Beacon Clear Vac-Mount
78043	LED Beacon Amber Vac-Mount
78045	LED Beacon Blue Vac-Mount

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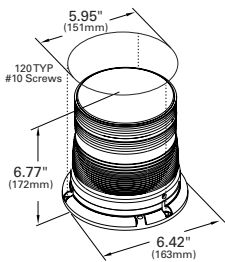   Not SAE approved (78034, 78054)
Volts/Amps: 12–24V, 0.5A at 12V
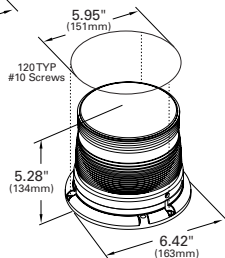**Accessory:** 6" Branch Guard 98460, 4" Branch Guard 98470
Lens: 98171, 98173, 98175, 98171, 98221, 98223, 98225, 98174, 98224
VMRS Code: 034-006-056

LED

5.95"
(151mm)

120 TYP
#10 Screws

6.77"
(172mm)

6.42"
(163mm)

5.95"
(151mm)

120 TYP
#10 Screws

5.28"
(134mm)

6.42"
(163mm)

76253

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

76253	LED Beacon Amber Short Dome	
76263	LED Beacon Amber Short Dome	24 VOLT
77953	LED Beacon Amber Tall Dome	
77963	LED Beacon Amber Tall Dome	24 VOLT

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

LED

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

76683   LED Rotating Beacon Amber Tall Dome   *MULTI*
76685   LED Rotating Beacon Blue Tall Dome   *MULTI*

Material: Polycarbonate
Standards: SAE J845™ Class I (Amber); Class II (Blue)
Volts / Amps: 12–24V / 1.7A
VMRS Code: 034-006-056

76683

6.2" (157mm)
120° TYP
6.3" (160mm)
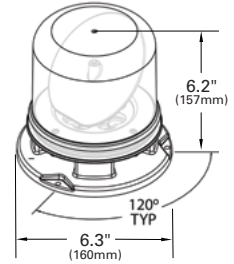
LED DUAL COLOR BEACONS, CLASS I

LED

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

78070   LED Beacon Amber/Green Short Lens   *MULTI*
78071   LED Beacon Amber/Clear Short Dome   *MULTI*
78075   LED Beacon Amber/Blue Short Dome   *MULTI*
78080   LED Beacon Amber/Green Tall Lens   *MULTI*
78081   LED Beacon Amber/Clear Tall Dome   *MULTI*
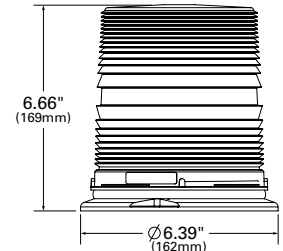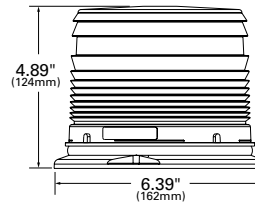**78085**   LED Beacon Amber/Blue Tall Dome   *MULTI*

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

78075

78081

4.89" (124mm)
6.39" (162mm)

6.66" (169mm)
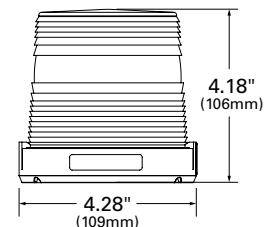∅ 6.39" (162mm)

LED COMPACT BEACON, CLASS I

LED

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

79093   LED Beacon, Amber, Compact Base 12–24V   *MULTI*
98513   7909 Amber Replacement Lens

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

79093

4.18" (106mm)
4.28" (109mm)

| **WWW.GROTE.COM**   **193**

LED

78853

78863

5.75"
(146mm)

8.05"
(204mm)

4.89"
(124mm)

6.39"
(162mm)

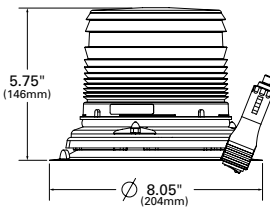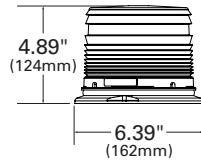## LED BEACONS, CLASS II, SHORT DOME

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	MULTI
78853	LED Beacon Amber Short Dome	MULTI
78855	LED Beacon Blue Short Dome	MULTI

MAGNET MOUNT WITH AUXILIARY ADAPTER:

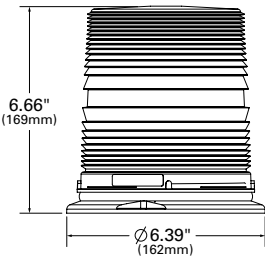|	
78861	LED Beacon Clear Vac-Mount
78863	LED Beacon Amber Vac-Mount
78865	LED Beacon Blue Vac-Mount

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: 98221, 98223, 98225
VMRS Code: 034-006-056

LED

6.66"
(169mm)

6.39"
(162mm)

78063

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	MULTI
78063	LED Beacon Amber Tall Dome, Amber	MULTI
78065	LED Beacon Blue Tall Dome, Blue	MULTI

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

77813

77833

5.31"
(135mm)

6.44"
(163mm)

6.81"
(173mm)

6.44"
(164mm)

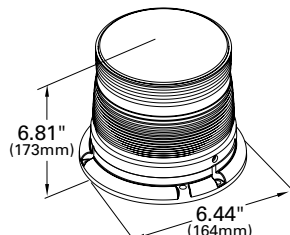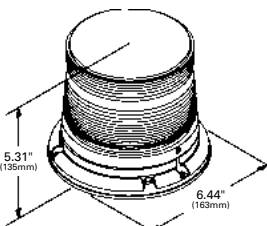## LED BEACON, CLASS II

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

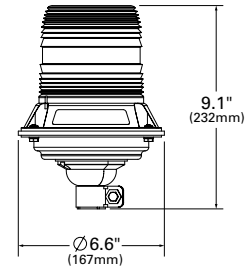Lightweight and durable polycarbonate base with flexible DIN mount • Modular circuit completely encapsulated for increased shock/weather resistance • Quad flash pattern

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

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

78123

9.1"
(232mm)

⌀6.6"
(167mm)

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

MAGNET MOUNT WITH AUXILIARY ADAPTER:

|	
78101	LED White Compact Mag Mount
78102	LED Red Compact Mag Mount
78103	LED Amber Compact Mag Mount
78104	LED Green Compact Mag Mount
78105	LED Blue Compact Mag 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

LED

78093

3.47"
(88mm)

5.12"
(130mm)

78103

3.82"
(97mm)

5.12"
(130mm)
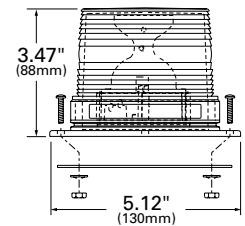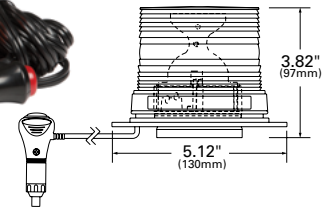
MIGHTY MINI LED BEACON, CLASS III

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

LED

77473

3.75"
(95mm)

5"
(127mm)

3.63"
(92mm)

77103

5.18"
(130mm)

(3) holes
for #10 screws
on 4.63" B.C.
(117mm)
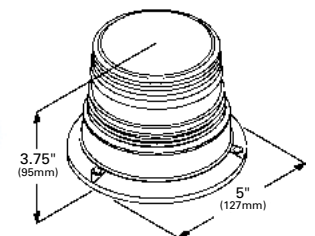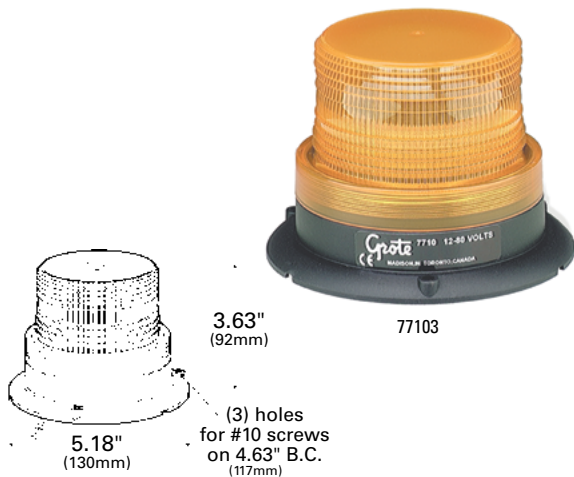
MIGHTY MINI STROBE

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

SINGLE FLASH, PERMANENT MOUNT:

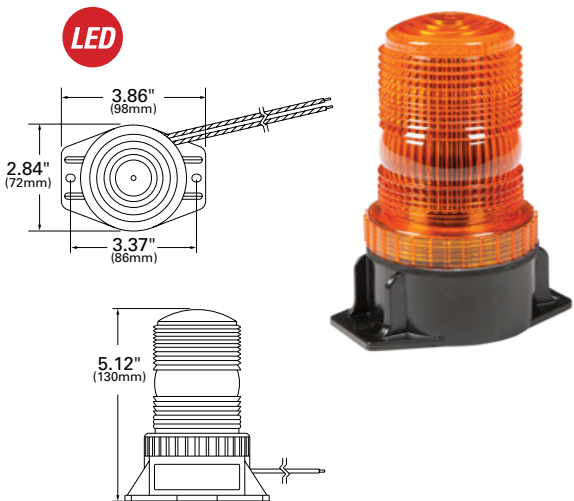|		
77101	White	*MULTI*
77102	Red	*MULTI*
77103	Amber	*MULTI*
77105	Blue	*MULTI*

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

3.86"
(98mm)

2.84"
(72mm)

3.37"
(86mm)

5.12"
(130mm)

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.

78113 LED Amber Material Handling Beacon *MULTI*

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

3.19" (81mm)
spacing for
#10 screws

5.5"
(140mm)

2.75"
(70mm)

3.94"
(100mm)

77013

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	*MULTI*
77013	Amber Material Handling Beacon	*MULTI*

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

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   *MULTI*

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

5.13"
(130mm)

3.63"
(92mm)

120° TYP.
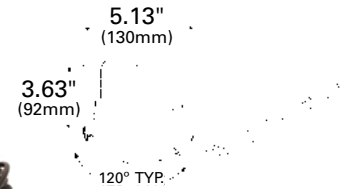
360° PORTABLE BATTERY OPERATED LED WARNING LIGHT

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

LED

77913   77912

4.88"
(122mm)

4.25"
(107mm)
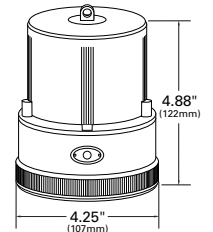
DIRECTIONAL, PORTABLE, BATTERY-OPERATED LED WARNING LIGHT

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

LED

4.38"
(110mm)

4.88" – 5.2"
(122mm–131mm)

1.63"
(41mm)

4.38"
(110mm)
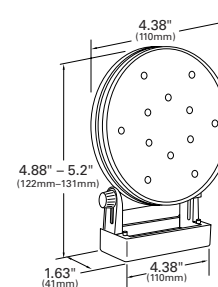
ECONOMY 360° FLASHING AUXILIARY WARNING LAMP KIT

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 / 3 A
Lens: 90353
VMRS Code: 034-001-021

(3) holes
for #8 screws
on 5.5" (140mm)
B.C.

6.13"
(156mm)

6.38"
(162mm)
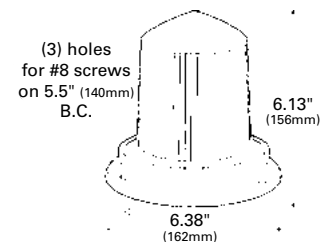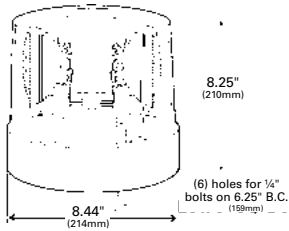
TWO SEALED-BEAM ROTO-BEACON, CLASS I

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

76223   Amber

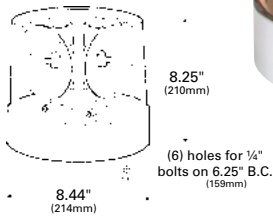**Material:** Stainless Steel / Aluminum / Acrylic / Polycarbonate
Bulb: 7400 SB, 33,000 CP
Standards: SAE J845™ Class I
Volts / Amps: 12V / 5.9A
Lens: 90373
VMRS Code: 034-006-056

8.25"
(210mm)

8.44"
(214mm)

(6) holes for ¼"
bolts on 6.25" B.C.
(159mm)

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
Standards: SAE J845™
Bulb: 7400 SB, 33,000 CP
Volts / Amps: 12V / 11.7A
Lens: 90373
VMRS Code: 034-006-056

8.25"
(210mm)

8.44"
(214mm)

(6) holes for ¼"
bolts on 6.25" B.C.
(159mm)

TEARDROP "KOJAK" LIGHT

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

76033   Amber   `RETAIL`

Material: Acrylic
Bulb: 67, 4 CP
Volts / Amps: 12V / 1.64A
VMRS Code: 034-001-021

5.38"
(137mm)

5"
(127mm)

7.25"
(184mm)
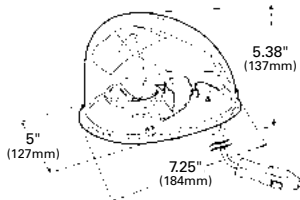
LED MINI LIGHT BARS, CLASS I

S-Link™ System* synchronizing capabilities with up to six other units
• Allows 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

78020	LED Amber/Blue Minibar w/ Clear Lens	MULTI
78023	LED Amber Minibar	MULTI
78024	LED Green Minibar	MULTI
78025	LED Blue Minibar	MULTI
79053	LED Amber Minibar w/ Clear Lens	MULTI

MAGNET MOUNT WITH AUXILIARY ADAPTER:

|	
78130	LED Amber/Blue Minibar Vac-Mount
78133	LED Amber Minibar Vac-Mount
78135	LED Blue Minibar Vac-Mount
78443	LED Amber Minibar Mag-Mount
79060	LED Amber Minibar w/ Clear Lens

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

LED

78023

78130

3.2"
(61mm)

14.3"
(363mm)

8.4"
(213mm)

16.5"
(419mm)
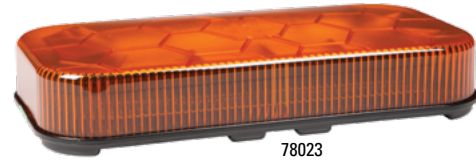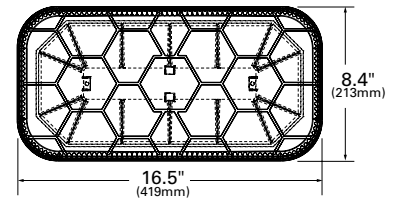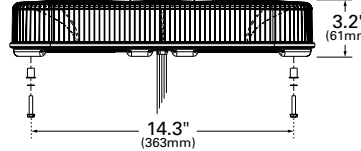
AMBER TOW BARS, CLASS I

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.

79153	58" Amber Towbar with S/T/T and Worklights
79143	51" Amber Towbar with S/T/T and Worklights
79133	51" Amber Towbar

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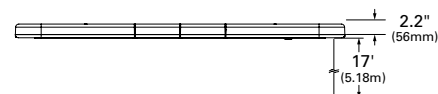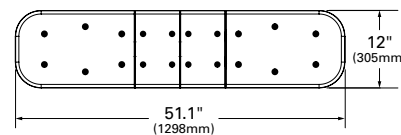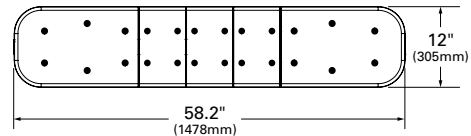**Standards:** SAE J845™ Class I
Volts / Amps: 12V
Accessories: 98542 - Tow Bar Bracket for Spotlight, 98532 - Optional Roof Mount Bracket, 42400 - 4.6" Flex Gutter Kit, 42410 - 6.2" Flex Gutter Kit, 42420 - 8.4" Flex Gutter Kit
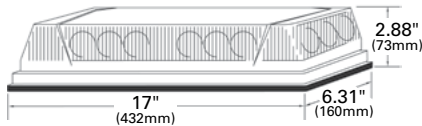**VMRS Code:** 034-001-021

LED

79153

12"
(305mm)

58.2"
(1478mm)

2.2"
(56mm)

17'
(5.18m)

12"
(305mm)

51.1"
(1298mm)

2.2"
(56mm)

17'
(5.18m)

LED

76983

76990

2.88"
(73mm)

17"
(432mm)

6.31"
(160mm)

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 6" 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

LED

77223

77803

1.46"
(37mm)

1.46"
(37mm)

6.77"
(172mm)

9.76"
(248mm)

6.77"
(172mm)

9.76"
(248mm)

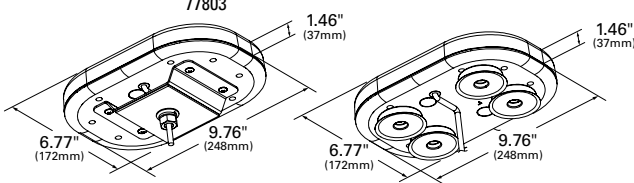## COMPACT MINI BAR ULTRA-LOW PROFILE, CLASS I

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 | *MULTI* |
| **77803** | Magnet Mount | *MULTI* |

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

LED

4.7"
(120mm)

22"
(559mm)
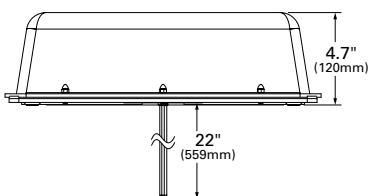
LED MINI STROBE LIGHT BARS, CLASS II

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 | *MULTI* |

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

INCANDESCENT 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
Volta / Amps: 12V / 8A at 12V
Lens: 98373, 98383
VMRS Code: 034-001-021
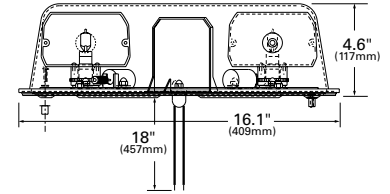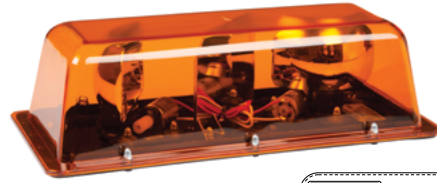
LED DIRECTIONAL WARNING LIGHTS, CLASS I/II

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

78140	LED Amber/Green Directional	*MULTI*
78141	LED Clear Directional	*MULTI*
78142	LED Red Directional	*MULTI*
78143	LED Amber Directional	*MULTI*
78144	LED Green Directional	*MULTI*
78145	LED Blue Directional	*MULTI*
78146	LED Amber/Blue Directional	*MULTI*
78460	LED Amber/Clear Directional	*MULTI*
78460-5	LED Amber/Clear Directional	*MULTI* *RETAIL*
79080	LED Red/White Directional	*MULTI*

3-DIODE

|	
78161	LED Clear Directional
78162	LED Red Directional
78163	LED Amber Directional
78163-1	Display pack (4 LED Amber 78163)
78164	LED Green Directional
78165	LED Blue Directional

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	*MULTI*
79110	LED Amber/Green/White Directional	*MULTI*
79120	LED Amber/Red/White Directional	*MULTI*

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

3.6" (91mm)
1.3" (33mm)
1.32" (34mm)
3.25" (83mm)
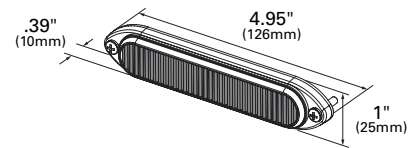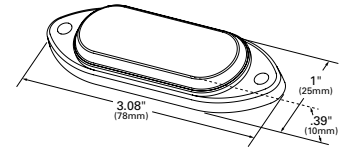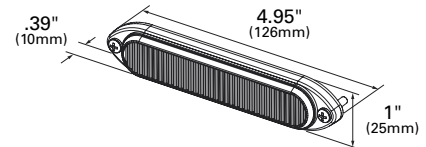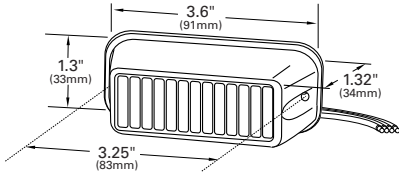
LED DIRECTIONAL WARNING LAMP, CLASS I

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

77461   Clear
77462   Red
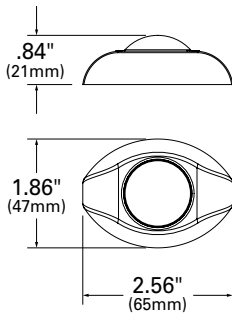**77463**   Amber
77465   Blue

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

LED

.84" (21mm)
1.86" (47mm)
2.56" (65mm)

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

79033   Mini LED Amber W/Bezel   *MULTI*
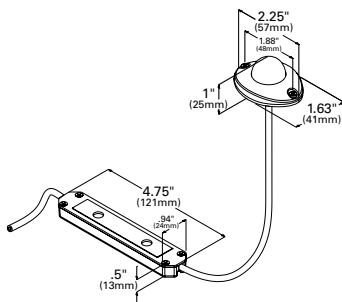**79033-5**   Mini LED Amber W/Bezel   *MULTI* *RETAIL*

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

LED

2.25" (57mm)
1.88" (48mm)
1" (25mm)
1.63" (41mm)
4.75" (121mm)
.94" (24mm)
.5" (13mm)

97942 Flange

97943 Flange

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

77931   Clear
77932   Red
77933   Amber

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	*MULTI*
76793	Amber	*MULTI*
76793-5	Amber	*MULTI* *RETAIL*
76795	Blue	*MULTI*

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

LED
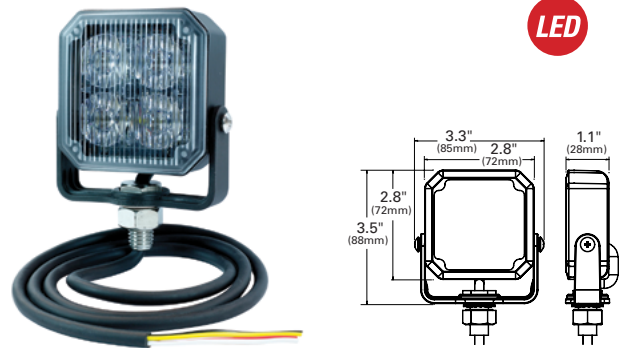
WING-TIP LED SNOWPLOW WARNING LAMP, CLASS I

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

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

LED

LED

4.31"
(110mm)

.75"
(19mm)

77353
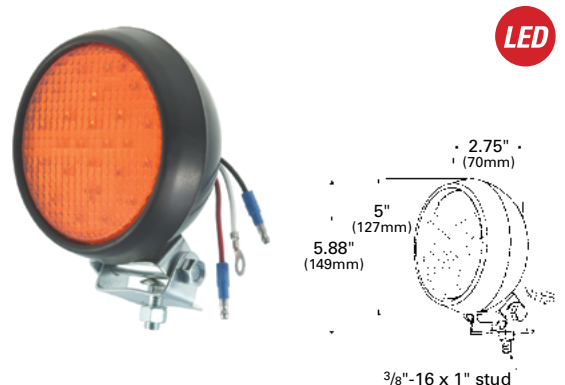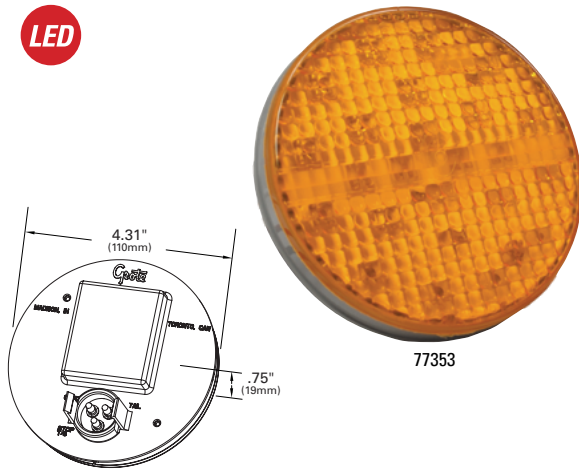
4" LED AUXILIARY WARNING LAMP, CLASS II/III

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

LED

6.5"
(165mm)

.87"
(22mm)

2.27"
(58mm)

77363

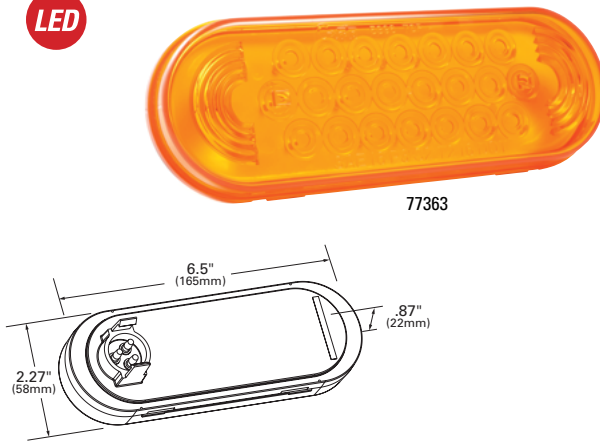## OVAL LED AUXILIARY WARNING LAMPS, CLASS II/III

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

78195

78193

2.31"
(59mm)

6.46"
(164mm)

7.5"
(191mm)

.69"
(17mm)

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

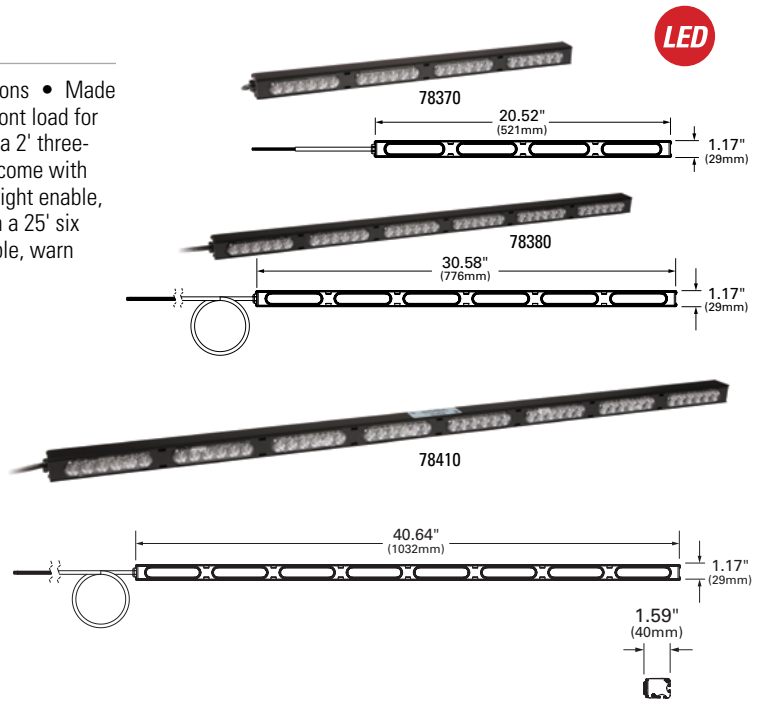|		
78190	LED 6" Oval Amber/Blue, Clear Lens	*MULTI*
78191	LED 6" Oval Clear, Clear Lens	*MULTI*
78193	LED 6" Oval Amber, Amber Lens	*MULTI*
78194	LED 6" Oval Green, Clear Lens	*MULTI*
78195	LED 6" Oval Blue, Clear Lens	*MULTI*

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, pattern 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

78370
20.52" (521mm)
1.17" (29mm)

78380
30.58" (776mm)
1.17" (29mm)

78410
40.64" (1032mm)
1.17" (29mm)
1.59" (40mm)

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

LED

78200
47.9" (1218mm)
1.8" (47mm)

78210
12.9" (327mm)

78270
18.8" (478mm)

98522

66650
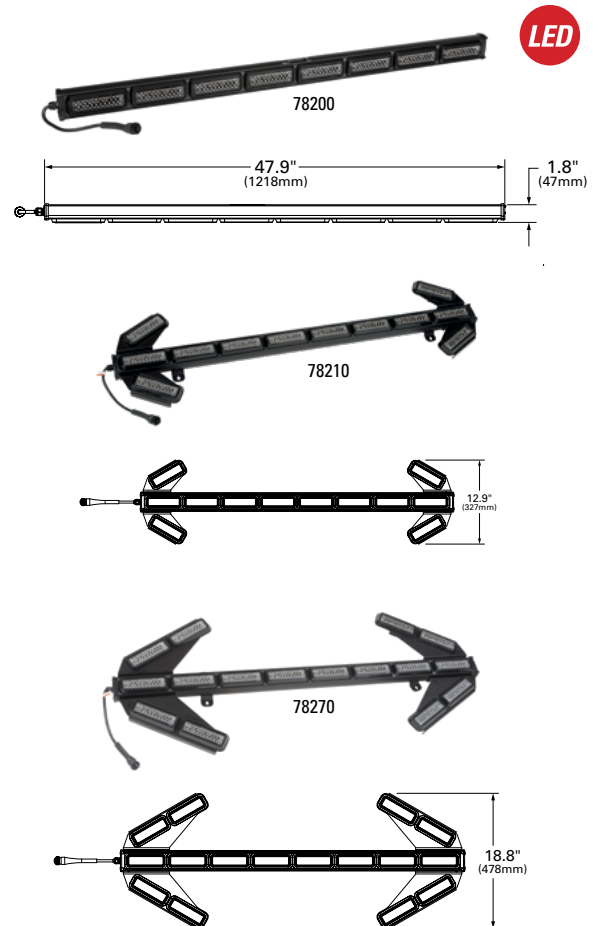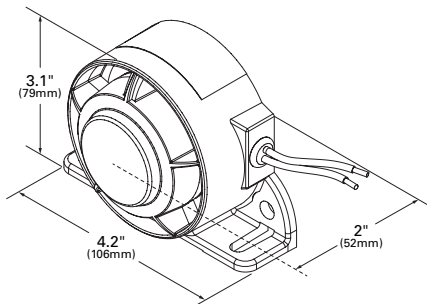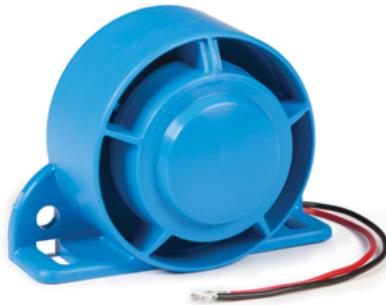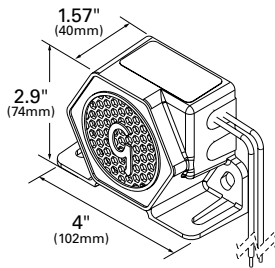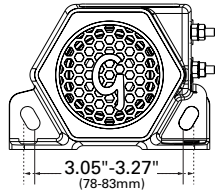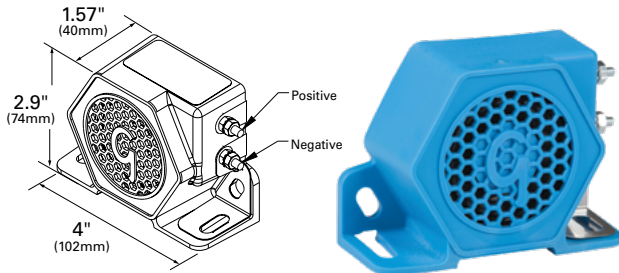
MEDIUM / LOW NOISE SURROUND BACK-UP ALARM

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

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

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

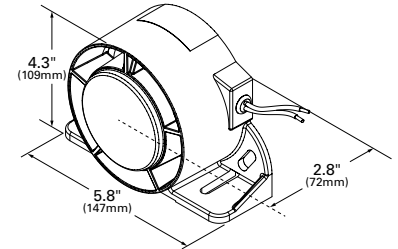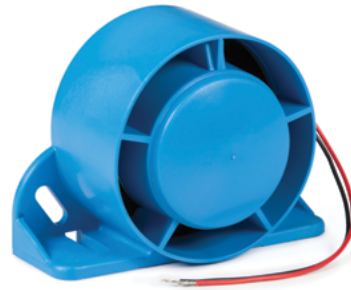|		
73030	107–112 Selectable dB	*MULTI*
73070	112 dB	*MULTI*
73080	87–112 dB, Self-Adjusting	*MULTI*

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	*MULTI*
73310	97 dB, Multi-Freq	*MULTI*

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
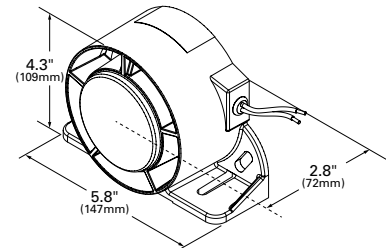
4" GROMMET MOUNTED BACK-UP ALARM

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

73160	107 dB	*MULTI*
73220	97 dB	*MULTI*

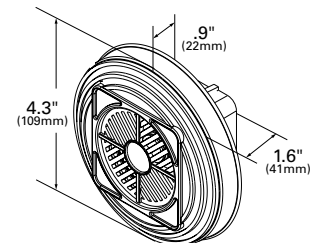**Material:** Glass-Filled Nylon
Standards: SAE J994™ Type B (73160); Type C (73220)
Finish: Black
Volts / Amps: 12–24V / .4A at 12V
Grommet: 91740
VMRS Code: 054-002-001

3.75" (95mm)

3" (76mm)
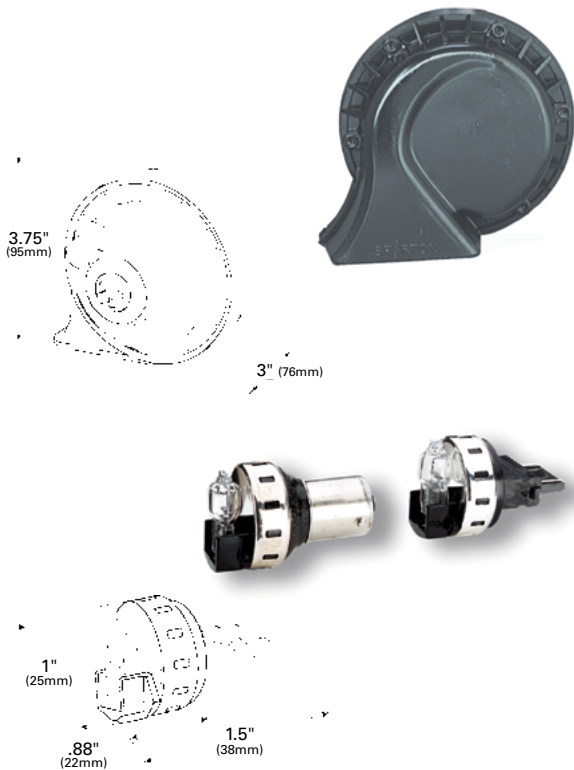
ELECTRIC AUTOMOTIVE HORNS

Complete with mounting bracket

FOR IMPORT VEHICLES:

72010-5 High Tone, 135 dB *RETAIL*

FOR DOMESTIC VEHICLES:

72100-5 High Tone, 125 dB *RETAIL*
72110-5 Low Tone, 125 dB *RETAIL*

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

1" (25mm)

.88" (22mm)

1.5" (38mm)

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 *RETAIL*

WEDGE BASE: (3156 REPLACEMENT)

73150-5 *RETAIL*

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

2.4" (61mm)

1.27" (32mm)

11" (279mm)

5.44" (138mm)

26" (660mm)

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

(2) plcs. terminal screw w/ #8-32 washer

3.44" (87mm)

2.5" travel (64mm)

1.5" (38mm)

.63" (16mm)

1.19" (30mm)

(2) holes #10-32 threaded
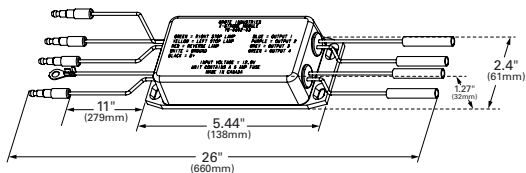
ACTUATION SWITCH

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

44134   Switch   *MULTI*

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
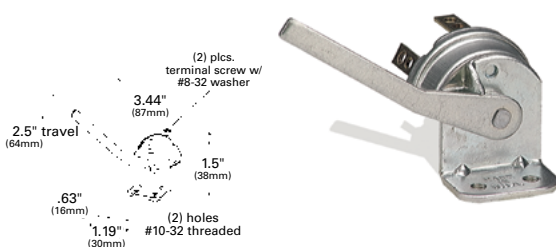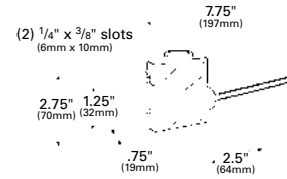
44421   Switch   *MULTI*

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

(2) ¹/₄" x ³/₈" slots
(6mm x 10mm)

7.75"
(197mm)

2.75"
(70mm)

1.25"
(32mm)

.75"
(19mm)

2.5"
(64mm)

REPLACEMENT LENSES

LENS MODEL NUMBER	FITS LAMP	LENS MODEL NUMBER	FITS LAMP	LENS MODEL NUMBER	FITS LAMP
90353	76083	**98225**	78035	**98282**	78092
90373	76203		78045		78102
	76223		78855	**98293**	78113
	76283		78865	**98311**	78020
98171	**78050**	**98251**	78010		78130
	78051		78011		79053
	78061		79021		79060
	78080	**98253**	78013	**98313**	78023
	78081		79023		78133
	78085	**98255**	78015		78443
98173	78053		79025	**98314**	78024
	78063	**98271**	78010	**98315**	78025
	78503		78011		78135
98175	78055		78013	**98373**	78513
	78065		78015		79023
98221	78030		79070		79043
	78031		79071	**98383**	79023
	78041		79072		79043
	78070		79073	**98513**	79093
	78071		79074		
	78075	**98283**	78093		
	78851		78103		
	78861	**98284**	78094		
	78015		78104		
98223	78033	**98285**	78095		
	78043		78105		
	78493	**98281**	78091		
	78853		78101		
	78863				

90353

90373

98171, 98173, 98175

98221, 98223, 98225

98251, 98253, 98255

98271

98281, 98282, 98283, 98284, 98285

98293

98311, 98313, 98314, 98315

98373

98383

98513

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