# WARNING & HAZARD SOLUTIONS

# AVERTISSEMENT ET DANGER ÉCLAIRAGE

# ADVERTENCIA Y PELIGRO ILUMINACIÓN







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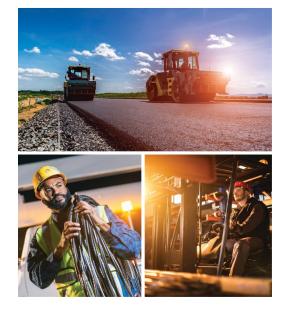
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# VISIBILITY & SAFETY MATTERS





#### ELECTRO-MAGNETIC COMPLIANCE

No need to worry about Electro-Magnetic Compliance (EMC). Grote's new line of LED Lighting products have been put through rigorous Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) testing to help ensure our customers will have years of worry-free operation.

# **CHOOSE THE RIGHT PRODUCT FOR** YOUR SPECIFIC APPLICATION AND NEED.

#### YOUR SAFETY AND THE SAFETY OF OTHERS DEPENDS ON IT!

#### Not all warning lights are created equal.

Know the certification and regulations for your application and choose the products that will work as hard as you do! Safety first and foremost! Choose from a variety of mounting options, including Permanent mount, Magnet mount and Vacuum/Magnet mount solutions.

#### Select the proper mounting option for your specific needs and application.

Permanent-mount lighting should be used for vehicles that will be utilized in over-the-road applications. Magnet or Vacuum/Magnet mounted lighting options should only be used on vehicles that are not in motion, ie: stationary at a job site, off to the side of the road, etc.

You need to be seen while you are working and others need to see you be visible at all times!

#### When it comes to audible warning devices, not all backup alarms are the same.

Choose the backup alarm that best suits the conditions that the alarm will be used in. Grote offers a wide variety of alarms, including heavy duty, medium duty and light duty options. Our alarms are available in a variety of audible tones, from standard beeping to the newest multi-frequency output. Adjustable volume levels allow for coverage in all conditions and applications.

Grote's versatile backup alarms are available in both surface mount and grommet mount options and are designed to reliably perform in a wide variety of difficult environments and harsh conditions.

Choose the right alarm that will best suit your unique environments.

### SAE STANDARDS/CERTIFICATIONS WHAT WE NEED TO KNOW AND WHY

There are two primary SAE Certifications to be aware of:



#### SAE J845 – Omnidirectional Optical Warning Device

A flashing optical warning device that projects light in a horizontal 360 degree arc and vertically from 5 degrees up to 5 degrees down. It will appear to project flashes of light to an observer positioned at a fixed location. The flashes of light may be a repetitive signal or a non-repetitive signal. If a non-repetitive signal is used, it shall be a block of repetitive signals that have been characterized. This includes all 360° beacons.



#### SAE J595 – Directional Flashing Optical Warning Device A flashing optical warning device, in which the light source produces flashes of light, which is directionally aimed and will project a signal over a minimum area from 20° right to 20° left in a horizontal plane and from 10° up to 10° down in a vertical plane. The flashes of light may be a repetitive signal or a non-repetitive signal. If a non-repetitive signal is used, it shall be a block of repetitive signals that have been characterized.

#### S-LINK<sup>™</sup> TECHNOLOGY

S-Link<sup>™</sup> System is a proprietary technology that allows similar S-Link products to be synchronized. This would allow 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 together. Refer to user installation manuals for details on S-Link Synchronization.



# CLASS I, II, III WHICH IS TO BE USED AND WHERE?



#### **Class I Optical Warning Devices**

Engineered to capture the attention of motorists and pedestrians and warn of a potentially hazardous activity or situation, these optical warning devices can be used in many applications, including on authorized emergency vehicles traveling faster than the speed of traffic.

#### **Typical Usage:** First Responders, Utility and Service, Snow Removal, **Towing and Construction**





#### **Class II Optical Warning Devices** Engineered for use on authorized maintenance or service vehicles to warn

of traffic hazards such as a lane blockage or a slow-moving vehicle, these devices are designed for visibility while traveling at the speed of traffic or while stopped on the side of the road.

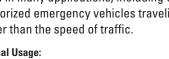
#### **Typical Usage:** Utility and Service, Roadside Assistance, Construction, Snow Removal and Agriculture



#### **Class III Optical Warning Devices**

Engineered for use on vehicles authorized to display an optical warning device for identification only, these devices are designed to provide extra visibility and safety to equipment and vehicles used on private property.

**Typical Usage:** Forklifts, Property Maintenance and Construction









#### **BACKUP ALARMS**



73040



73080

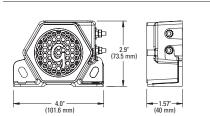


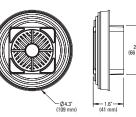
#### **FEATURES & BENEFITS**

- Rugged construction with glass-filled nylon housings
- Universal mounting including grommet mounted products
- Available in a range of decibel output levels to fit wide variety of application needs
- Select the output volume based on the ambient noise levels of the environment where the alarms will be in use

#### Voltage: 12 to 24 VDC

Amp Draw: 0.1 amps – 0.5 amps @ 12 VDC





73040Backup Alarm, Medium Duty97 dB12/24 VSAE J994 Type C73090Backup Alarm, Medium Duty107 dB12/24 VSAE J994 Type B73110Backup Alarm, Self Adjusting82 dB to 102 dB12/24 VSAE J994 Type F73250Backup Alarm, Reverse Mounted Speaker107 dB12/24 VSAE J994 Type F73070Backup Alarm, Reverse Mounted Speaker107 dB12/24 VSAE J994 Type B73070Backup Alarm, Reverse Mounted Speaker112 dB12/24 VSAE J994 Type A73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type B7320Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B7320Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type B7330Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C7330Backup Alarm, Jual Function97 dB12/24 VSAE J994 Type C7330Backup Alarm, Jual Function97 dB12/24 VSAE J994 Type C	PART	DESCRIPTION	DECIBELS	VOLTAGE	APPROVALS
73090Backup Alarm, Medium Duty107 dB12/24 VSAE J994 Type B73110Backup Alarm, Self Adjusting82 dB to 102 dB12/24 VSAE J994 Type F73250Backup Alarm, Reverse Mounted Speaker107 dB12/24 VSAE J994 Type B73070Backup Alarm, Reverse Mounted Speaker112 dB12/24 VSAE J994 Type F73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type B73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm102 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V			DEGIDEEG	TOEINGE	ATTROVALO
73110Backup Alarm, Self Adjusting82 dB to 102 dB12/24 VSAE J994 Type F73250Backup Alarm, Reverse Mounted Speaker107 dB12/24 VSAE J994 Type B73070Backup Alarm, Reverse Mounted Speaker112 dB12/24 VSAE J994 Type A73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Sele table107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type B73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type B73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm102 dB12/24 VSAE J994 Type C	73040	Backup Alarm, Medium Duty	97 dB	12/24 V	SAE J994 Type C
73250Backup Alarm, Reverse Mounted Speaker107 dB12/24 VSAE J994 Type B73070Backup Alarm, Reverse Mounted Speaker112 dB12/24 VSAE J994 Type A73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type B73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73090	Backup Alarm, Medium Duty	107 dB	12/24 V	SAE J994 Type B
73070Backup Alarm, Reverse Mounted Speaker112 dB12/24 VSAE J994 Type A73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B73220Backup Alarm, Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type B73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73110	Backup Alarm, Self Adjusting	82 dB to 102 dB	12/24 V	SAE J994 Type F
73240Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 107 dB12/24 VSAE J994 Type F73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F7310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B73220Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type B73350Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type B73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73250	Backup Alarm, Reverse Mounted Speaker	107 dB	12/24 V	SAE J994 Type B
73080Backup Alarm, Reverse Mounted Speaker, Self Adjusting87 dB to 112 dB12/24 VSAE J994 Type F73030Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F73310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type F73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B73220Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type B73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type B73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 VSAE J994 Type C	73070	Backup Alarm, Reverse Mounted Speaker	112 dB	12/24 V	SAE J994 Type A
73030Backup Alarm, Reverse Mounted Speaker, Selectable107 dB or 112 dB12/24 VSAE J994 Type F73310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type C73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73240	Backup Alarm, Reverse Mounted Speaker, Self Adjusting	87 dB to 107 dB	12/24 V	SAE J994 Type F
73310Backup Alarm, Spectrum Multi Frequency, Reverse Mount97 dB12/24 VSAE J994 Type C73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type C73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type C73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73080	Backup Alarm, Reverse Mounted Speaker, Self Adjusting	87 dB to 112 dB	12/24 V	SAE J994 Type F
73170Backup Alarm, Spectrum Multi Frequency, Reverse Mount107 dB12/24 VSAE J994 Type B73220Backup Alarm, 4" Grommet Mount97 dB12/24 VSAE J994 Type C73160Backup Alarm, 4" Grommet Mount107 dB12/24 VSAE J994 Type B73350Backup Alarm, Dual Function97 dB12/24 VSAE J994 Type C73360Dual-Tone Warning Alarm97 dB12/24 VSAE J994 Type C73370Dual-Tone Warning Alarm102 dB12/24 V	73030	Backup Alarm, Reverse Mounted Speaker, Selectable	107 dB or 112 dB	12/24 V	SAE J994 Type F
73220         Backup Alarm, 4" Grommet Mount         97 dB         12/24 V         SAE J994 Type C           73160         Backup Alarm, 4" Grommet Mount         107 dB         12/24 V         SAE J994 Type C           73350         Backup Alarm, Dual Function         97 dB         12/24 V         SAE J994 Type C           73360         Dual-Tone Warning Alarm         97 dB         12/24 V         SAE J994 Type C           73370         Dual-Tone Warning Alarm         102 dB         12/24 V         SAE J994 Type C	73310	Backup Alarm, Spectrum Multi Frequency, Reverse Mount	97 dB	12/24 V	SAE J994 Type C
73160         Backup Alarm, 4" Grommet Mount         107 dB         12/24 V         SAE J994 Type B           73350         Backup Alarm, Dual Function         97 dB         12/24 V         SAE J994 Type B           73360         Dual-Tone Warning Alarm         97 dB         12/24 V         SAE J994 Type C           73370         Dual-Tone Warning Alarm         102 dB         12/24 V	73170	Backup Alarm, Spectrum Multi Frequency, Reverse Mount	107 dB	12/24 V	SAE J994 Type B
73350         Backup Alarm, Dual Function         97 dB         12/24 V         SAE J994 Type C           73360         Dual-Tone Warning Alarm         97 dB         12/24 V           73370         Dual-Tone Warning Alarm         102 dB         12/24 V	73220	Backup Alarm, 4" Grommet Mount	97 dB	12/24 V	SAE J994 Type C
73360         Dual-Tone Warning Alarm         97 dB         12/24 V           73370         Dual-Tone Warning Alarm         102 dB         12/24 V	73160	Backup Alarm, 4" Grommet Mount	107 dB	12/24 V	SAE J994 Type B
73370         Dual-Tone Warning Alarm         102 dB         12/24 V	73350	Backup Alarm, Dual Function	97 dB	12/24 V	SAE J994 Type C*
	73360	Dual-Tone Warning Alarm	97 dB	12/24 V	
73420 Dual-Tone Warning Alarm, 4" Grommet Mount 102 dB 12/24 V	73370	Dual-Tone Warning Alarm	102 dB	12/24 V	
	73420	Dual-Tone Warning Alarm, 4" Grommet Mount	102 dB	12/24 V	

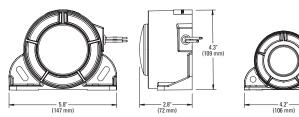
\* Meets SAE J994 in Single Tone Mode (red wire to power, black wire to ground)



#### **FEATURES & BENEFITS**

- "White noise" function reduces noise pollution (ideal for use in residential areas)
- Rugged construction with glass-filled nylon housings
- Universal mounting including grommet mounted products
- Available in a range of decibel output levels to fit wide variety of application needs
- Select the output volume based on the ambient noise levels of the environment where the alarms will be in use

#### Voltage: 12 to 24 VDC Amp Draw: 0.1 amps – 0.5 amps @ 12 VDC



PART	DESCRIPTION	DECIBELS	VOLTAGE	APPROVALS
73340	Backup Alarm, Multi Frequency, "White Noise", Standard Mount	97 dB	12/24 V	SAE J994 Type C
73320	Backup Alarm, Multi Frequency, "White Noise", Reverse Mount	102 dB	12/24 V	SAE J994 Type B
73430	Backup Alarm, Multi Frequency, Smart Alarm, "White Noise", Reverse Mount	87-107 dB	12/24 V	SAE J994 Type F
73440	Backup Alarm, Multi Frequency, Smart Alarm, "White Noise", Reverse Mount	77-97 dB	12/24 V	SAE J994 Type F
73480	Backup Alarm, Multi Frequency, "White Noise", Grommet Mount	97 dB	12/24 V	SAE J994 Type C
73490	Backup Alarm, Multi Frequency, "White Noise", Smart Alarm, Grommet Mount	97-107 dB	12/24 V	SAE J994 Type F

#### "WHITE NOISE" BACKUP ALARMS





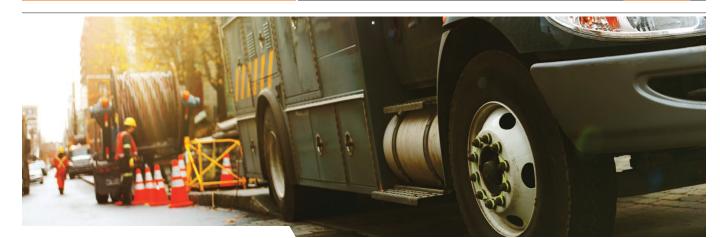






LED BEACON, CLASS I, TALL DOME

PERMANENT MOUNT









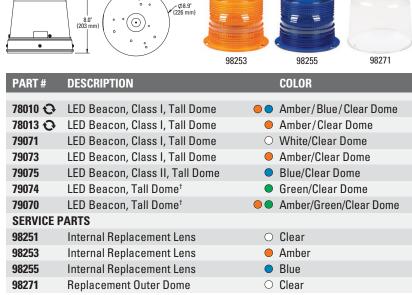
**FEATURES & BENEFITS** 

- 12 different selectable flash patterns in either of two phases, plus steady-on
- Durable polycarbonate inner lens and outer dome
- Clear, smooth outer dome for easy cleaning and inner lens protection
- Heavy-duty, spun aluminum base with plastic base insert
- Designed for a wide range of light-duty and heavy-duty vehicles
- S-Link<sup>™</sup> System allows for flash pattern synchronization with up to six other S-Link compatible units (for hardwire models only)
- High-Low power available on single color beacons
- · Ability to isolate colors on dual-color models
- 5-year warranty

#### Voltage: 12 to 24 VDC

Amp Draw: 0.6 amps @ 12 VDC, 0.3 amps @ 24 VDC

APPROVALS: SAE J845 CLASS I O AMBER O WHITE	SAE J845 CLASS II 🔵 BLUE
NOT SAE APPROVED: • GREEN • AMBER GREEN	



• Rotating Flash Pattern <sup>†</sup> Not SAE approved

#### PERMANENT MOUNT, VACUUM MAGNET MOUNT

#### **FEATURES & BENEFITS**

- compatible units (for hardwire models only)

PERMANENT MOUNT	VAC
Voltage: 12 to 24 VDC	Vol
Amp Draw: 0.5 amps @ 12 VDC	Am



SHORI	LEINS	
78031	LED Beacon, Class I, Short Lens	Permanen
78041	LED Beacon, Class I, Short Lens	Vacuum N
78033	LED Beacon, Class I, Short Lens	Permanen
78043	LED Beacon, Class I, Short Lens	Vacuum N
78035	LED Beacon, Class II, Short Lens	Permanen
78045	LED Beacon, Class II, Short Lens	Vacuum N
78030	LED Beacon, Class I, Short Lens	Permanen
78032	LED Beacon, Class I, Short Lens	Permanen
78034	LED Beacon, Class I, Short Lens $^{\dagger}$	Permanen
TALL LE	NS	
78051	LED Beacon, Class I, Tall Lens	Permanen
78053	LED Beacon, Class I, Tall Lens	Permanen
78055	LED Beacon, Class II, Tall Lens	Permanen
78050	LED Beacon, Class I, Tall Lens	Permanen
78052	LED Beacon, Class I, Tall Lens	Permanen
78054	LED Beacon, Class I, Tall Lens†	Permanen
SERVICE	E PARTS	
98221	Replacement Short Lens	
98223	Replacement Short Lens	
98225	Replacement Short Lens	
98222	Replacement Short Lens	
98224	Replacement Short Lens	
98171	Replacement Tall Lens	
98173	Replacement Tall Lens	
98175	Replacement Tall Lens	
98172	Replacement Tall Lens	
98174	Replacement Tall Lens	
98470	Branch Guard (Low Profile)	
98460	Branch Guard (High Profile)	
t Not CAE	approved	

<sup>†</sup>Not SAE approved

LED BEACONS 02 BALISES À DEL • BALIZAS LED

#### LED BEACON, CLASS I





#### LED MINI BEACON, CLASS I





#### LED BEACON, CLASS II, SHORT LENS







#### PERMANENT MOUNT, MAGNET MOUNT

#### **FEATURES & BENEFITS**

- 12 customer selectable flash patterns in either of two phases, plus steady-on
- S-Link<sup>™</sup> System allows for flash pattern synchronization with up to six other S-Link compatible units (for hardwire models only)
- Polycarbonate lens and base (Ultrasonic welded); Polarity protected
- Three-hole, permanent mount and magnet mount with pattern select aux. plug

#### Voltage (Permanent Mount): 9 to 32 VDC | Voltage (Magnet Mount): 12 VDC Amp Draw: 0.4 amps @ 12 VDC

#### APPROVALS: SAE J845 CLASS I

PART #	DESCRIPTION	MOUNT	COLOR	
79243	LED Mini Beacon, Class I	Permanent	Amber w/Amber Lens	
79240	LED Mini Beacon, Class I	Permanent	Amber w/Clear Lens	
79241	LED Mini Beacon, Class I	Permanent	$\odot$ White w/Clear Lens	
79253	LED Mini Beacon, Class I	Magnet	Amber w/Amber Lens	
79250	LED Mini Beacon, Class I	Magnet	Amber w/Clear Lens	
79251	LED Mini Beacon, Class I	Magnet	$\odot$ White w/Clear Lens	
93605	Mounting Bracket for LED Mini Beacon			

#### PERMANENT MOUNT, VACUUM MAGNET MOUNT

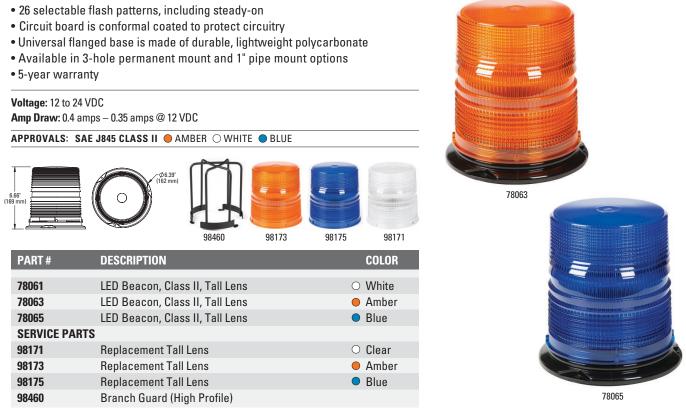
#### **FEATURES & BENEFITS**

- 26 selectable flash patterns, plus steady-on
- Circuit board is conformal coated to protect circuitry
- Durable, lightweight polycarbonate base, comes in three mounting options: flanged 3-hole permanent mount, 1" pipe mount, vacuum magnet mount with aux. plug (on/off and pattern select switch)

• 5-year warranty	
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PERMANENT MOUNT       VACUUM MAGNET         Voltage: 12 to 24 VDC       Amp Draw: 0.4 amps – 0.35 amps @ 12 VDC       Amp Draw: 0.4 amps – 0.35 amps @ 12 VDC         APPROVALS:       SAE J845 CLASS II       AMBER       WHITE       SAE J845 CLASS III       BLUE         Image: 12 to 24 VDC       Image: 12 VDC       Amp Draw: 0.4 amps – 0.35 amps @ 12 VDC         APPROVALS:       SAE J845 CLASS II       AMBER       WHITE       SAE J845 CLASS III       BLUE         Image: 12 VDC         Amp Draw:       0.4 amps – 0.35 amps @ 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Amp Draw:       0.4 amps – 0.35 amps @ 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Amp Draw:       0.4 amps – 0.35 amps @ 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Amp Draw:       0.4 amps – 0.35 amps @ 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Image: 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Image: 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC       Image: 12 VDC         Image: 12 VDC       Image: 12 VDC       Image: 12 VDC       I						
ABY       COLOR         ABY       COLOR         ABY       COLOR         Ideam       COLOR         PART #       DESCRIPTION         MOUNT       COLOR         78851       LED Beacon, Class II         Permanent       Owner         78853       LED Beacon, Class II         Permanent       Amber         78855       LED Beacon, Class II         Permanent       Blue         78861       LED Beacon, Class II         Vacuum Magnet       White         78865       LED Beacon, Class II         Vacuum Magnet       Amber         78865       LED Beacon, Class III         Vacuum Magnet       Blue         SERVICE PARTS       O Clear         98221       Replacement Short Lens       O Clear         98223       Replacement Short Lens       Amber         98225       Replacement Short Lens       Blue	Voltage: 12 to 24 VDC Voltage: 12 VDC					
Adder Trade       Description       Mount       Color         PART #       DESCRIPTION       MOUNT       Color         78851       LED Beacon, Class II       Permanent       White         78853       LED Beacon, Class II       Permanent       Amber         78855       LED Beacon, Class III       Permanent       Blue         78861       LED Beacon, Class II       Vacuum Magnet       White         78863       LED Beacon, Class II       Vacuum Magnet       Amber         78865       LED Beacon, Class III       Vacuum Magnet       Blue         78865       LED Beacon, Class III       Vacuum Magnet       Blue         98221       Replacement Short Lens       O Clear         98223       Replacement Short Lens       Amber         98225       Replacement Short Lens       Blue	APPROVALS:	SAE J845 CLASS II 🔴 AMBER	OWHITE SAE J845 CL	ASS III 🔵 BLUE		
78851LED Beacon, Class IIPermanentWhite78853LED Beacon, Class IIPermanentAmber78855LED Beacon, Class IIIPermanentBlue78861LED Beacon, Class IIVacuum MagnetWhite78863LED Beacon, Class IIVacuum MagnetAmber78865LED Beacon, Class IIIVacuum MagnetBlue78865LED Beacon, Class IIIVacuum MagnetBlueSERVICE PARTS98221Replacement Short LensO Clear98225Replacement Short LensBlue	4.89 124 mm)	(152 mm)	5.75°.	(204 mm)		
78853LED Beacon, Class IIPermanentAmber78853LED Beacon, Class IIIPermanentBlue78861LED Beacon, Class IIVacuum MagnetWhite78863LED Beacon, Class IIVacuum MagnetAmber78865LED Beacon, Class IIIVacuum MagnetBlue78865LED Beacon, Class IIIVacuum MagnetBlue8ERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	PART #	DESCRIPTION	MOUNT	COLOR		
78855LED Beacon, Class IIIPermanentBlue78861LED Beacon, Class IIVacuum MagnetWhite78863LED Beacon, Class IIVacuum MagnetAmber78865LED Beacon, Class IIIVacuum MagnetBlue78865LED Beacon, Class IIIVacuum MagnetBlue8ERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78851	LED Beacon, Class II	Permanent	○ White		
78861LED Beacon, Class IIVacuum MagnetO White78863LED Beacon, Class IIVacuum MagnetAmber78865LED Beacon, Class IIIVacuum MagnetBlueSERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78853	LED Beacon, Class II	Permanent	Amber		
78863LED Beacon, Class IIVacuum MagnetAmber78865LED Beacon, Class IIIVacuum MagnetBlueSERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78855	LED Beacon, Class III	Permanent	Blue		
78865LED Beacon, Class IIIVacuum MagnetBlueSERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78861	LED Beacon, Class II	Vacuum Magnet	○ White		
SERVICE PARTS98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78863	LED Beacon, Class II	Vacuum Magnet	Amber		
98221Replacement Short LensO Clear98223Replacement Short LensAmber98225Replacement Short LensBlue	78865	LED Beacon, Class III	Vacuum Magnet	Blue		
98223Replacement Short LensAmber98225Replacement Short LensBlue	SERVICE PA	RTS				
98225 Replacement Short Lens • Blue	98221	<b>Replacement Short Lens</b>		$\odot$ Clear		
· ·	98223	Replacement Short Lens		Amber		
98470 Branch Guard (Low Profile)	98225	Replacement Short Lens		Blue		
	98470	Branch Guard (Low Profile	)			





PART #	DESCRIPTION
78061	LED Beacon, Class II, Tall Lens
78063	LED Beacon, Class II, Tall Lens
78065	LED Beacon, Class II, Tall Lens
SERVICE PARTS	
98171	Replacement Tall Lens
98173	Replacement Tall Lens
98175	Replacement Tall Lens
98460	Branch Guard (High Profile)

#### **FEATURES & BENEFITS**

- 79093: 12 different selectable flash patterns, plus steady-on
- 79183 & 79193: 26 different selectable flash patterns, including steady-on
- Compact design with super bright LED light output that conforms to SAE J845
- Durable, lightweight polycarbonate construction featuring either a permanent mount base with ½" pipe mount or a magnet mount with auxiliary plug
- Auxiliary plug (with on/off and pattern select switch)
- Ideal for mirror-mount applications or where low-profile lamps are beneficial

79093/79183 Voltage: 12 to 24 VDC 79093/79183 Amp Draw: 0.4 amps @ 12 VDC	79193 Voltage: 12 79193 Amp Draw:			
APPROVALS: SAE J845 CLASS I, SAE J845 CLASS II				

PART #	DESCRIPTION	MOUN		
79093	LED Compact Beacon, Class I	Perma		
79183	LED Compact Beacon, Class II	Perma		
79193	LED Compact Beacon, Class II	Magn		
ACCESSORIES				
98513	7909 Amber Replacement Lens			
93604	1/2" Mirror Mounting Bracket			
93604-KIT	1/2" Mirror Mounting Bracket, Wiring &	Connect		

# LED BEACONS 02 BALISES À DEL • BALIZAS LED

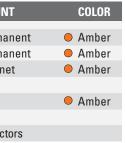


#### **PERMANENT MOUNT**

#### LED BEACON, CLASS II, TALL LENS

#### PERMANENT MOUNT, MAGNET MOUNT

- 2 VDC : 0.4 amps @ 12 VDC





Permanent Mount



LED COMPACT BEACON





#### LED BEACON, CLASS I







78081

DUAL COLOR, PERMANENT MOUNT

#### **FEATURES & BENEFITS**

- 12 selectable flash patterns, including steady-on
- S-Link<sup>™</sup> System allows for flash pattern synchronization with up to six other S-Link compatible units (for hardwire models only)
- Change color selection with the flip of a switch
- Available in 3-hole permanent mount and 1" pipe mount options
- Circuit boards are conformal coated to protect circuitry
- 5-year warranty

#### Voltage: 12 to 24 VDC

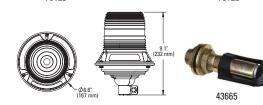
#### Amp Draw: 0.6 amps @ 12 VDC, 0.3 amps @ 24 VDC

#### APPROVALS: SAE J845 CLASS I

6.66°		0633' (162 mm) 98460 98470
PART #	DESCRIPTION	COLOR
78071 😯	LED Beacon, Class I, Short Lens	• • Amber/White w/Clear Lens
78075 😯	LED Beacon, Class I, Short Lens	Amber/Blue w/Clear Lens
78070 🕂	LED Beacon, Short Lens <sup>†</sup>	Amber/Green w/Clear Lens
98470	Branch Guard (Low Profile)	
78081 😯	LED Beacon, Class I, Tall Lens	O Amber/White w/Clear Lens
78085 🕂	LED Beacon, Class I, Tall Lens	Amber/Blue w/Clear Lens
78080 😯	LED Beacon, Tall Lens <sup>†</sup>	Amber/Green w/ Clear Lens
98460	Branch Guard (High Profile)	
SERVICE P	ARTS	
98171	Replacement Tall Lens	$\odot$ Clear
98221	Replacement Short Lens	○ Clear
		<sup>†</sup> Not SAE approved

**DIN MOUNT LED BEACON** 





#### **FEATURES & BENEFITS**

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

Voltage:	12 to	24	VDC

Amp Draw: 0.4 amps @ 12 VDC

PART #	DESCRIPTION	COLOR
78122	LED Beacon, Class III, DIN Mount	Red
78123	LED Beacon, Class II, DIN Mount	Amber
78125	LED Beacon, Class II, DIN Mount	Blue
SERVICE PA	RTS	
43665	Mounting Stem	

#### **FEATURES & BENEFITS**

SHORT LENS	SHORT LENS, MAGNET MOUNT	NT   T			
Voltage: 12 to 72 VDC	Voltage: 12 VDC	12			
Amp Draw:	Amp Draw:	A			
.17 amps @ 12 VDC	.22 amps @ 12 VDC	1.			





7	8095		78094		9
RIPTIO	N				MOU
		0			
aterial	Handling,	Class	II, Short	Lens	Perm
aterial	Handling,	Class	II, Short	Lens	Mag
aterial	Handling,	Class	III, Tall L	.ens	Perm
aterial	Handling,	Class	III, Shor	t Lens	Perm

2	LED Material Handling, Class III, Short Lens	Per
4	LED Material Handling, Short Lens <sup>†</sup>	Per
5	LED Material Handling, Class III, Short Lens	Per
)1	LED Material Handling, Class III, Short Lens	Mag
2	LED Material Handling, Class III, Short Lens	Mag
4	LED Material Handling, Short Lens <sup>†</sup>	Mag
5	LED Material Handling, Class III, Short Lens	Mag
VICE	PARTS	
3	7809 Replacement Lens – 3" Height	
3	7809 Replacement Lens – 3.9" Height	
1	7809-7810 Replacement Lens – 3" Height	
2	7809-7810 Replacement Lens – 3" Height	

- 7809-7810 Replacement Lens 3" Height 98285

<sup>†</sup> Not SAE approved

# LED BEACONS 02 BALISES À DEL • BALIZAS LED

#### LED MATERIAL HANDLING BEACONS

78113



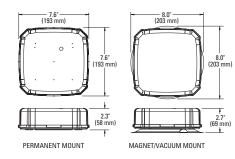


#### **SQUARE LED MINIBAR, CLASS I**



79220





#### **FEATURES & BENEFITS**

- With four bright LED heads producing 360° output, this powerful unit is also the smallest Minibar Grote offers
- 12 customer selectable flash patterns plus steady-on, and the permanent mount version offers two phases of output, high or low
- S-Link<sup>™</sup> 2.0 System offers synchronizing capabilities with other Grote LED S-Link units
- Available in permanent mount option and a vacuum/magnet mount with pattern select switch and 11' power cord
- All models are rated to SAE Class I to provide optimum safety for your vehicles and equipment
- Base material: 33% Glass Filled Nylon, Lens Material: Polycarbonate
- 5-year Warranty

#### Voltage: 12 VDC

Amp Draw: 1.2 amps

APPROVALS: SAE J845 CLASS I

PART #	DESCRIPTION	MOUNT	COLOR	
PERMANENT MOUNT				
79220	Square LED Minibar	Permanent	Amber w/Clear Lens	
79221	Square LED Minibar	Permanent	○ White w/Clear Lens	
79223	Square LED Minibar	Permanent	Amber w/Amber Lens	
VACUUN	I MOUNT			
79230	Square LED Minibar	Vacuum/Magnet	Amber w/Clear Lens	
79231	Square LED Minibar	Vacuum/Magnet	○ White w/Clear Lens	
79233	Square LED Minibar	Vacuum/Magnet	Amber w/Amber Lens	

#### **COMPACT LED LIGHT BAR, CLASS I**



77803







#### **FEATURES & BENEFITS**

- 22 selectable flash patterns via external pattern-select wire on permanent models
- Ultra-low profile reduces drag and friction
- · Magnet mount products come complete with an auxiliary plug for on/off function and 22 selectable flash patterns
- For use in various applications, such as pick-up trucks, cars or heavy-duty vehicles

#### Voltage: 12 to 24 VDC

Amp Draw: 2.5 amps @ 12 VDC, 1.25 amps @ 24 VDC

#### APPROVALS: SAE J845 CLASS I

PART #	DESCRIPTION	MOUNT	COLOR
77223 😳	Class I Compact LED Light Bar	Permanent	<ul> <li>Amber w/Clear Lens</li> <li>Amber w/Clear Lens</li> </ul>
77803 📀	Class I Compact LED Light Bar	Magnet	

#### **FEATURES & BENEFITS**

- pattern-select wire

- for on/off function and 20 selectable flash patterns

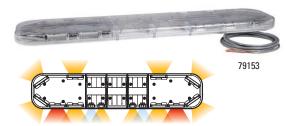


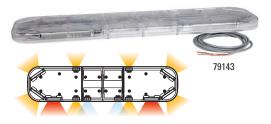
PART #	DESCRIPTION	MOUNT
78020	LED Mini Light Bar	Permanent O
78021 😳	LED Mini Light Bar	Permanent O
78023	LED Mini Light Bar	Permanent
78025	LED Mini Light Bar	Permanent
78130	LED Mini Light Bar	Vacuum Magnet 🛛 😐
78133	LED Mini Light Bar	Vacuum Magnet
78135	LED Mini Light Bar	Vacuum Magnet
78443	LED Mini Light Bar	Magnet
78024	LED Mini Light Bar <sup>†</sup>	Permanent
79053	LED Mini Light Bar	Permanent
78020-DC 😯	LED Mini Light Bar	Permanent O
SERVICE PA	RTS	
98311	Replacement Lens	(
98313	Replacement Lens	(
98315	Replacement Lens	
98314	Replacement Lens	
42390	Ford F-Series Mounting	g Bracket for trucks with
42391	Ford F-Series Mounting	g Bracket for trucks with
42392	Steel Mounting Plate for	or Magnet Mounted Lam

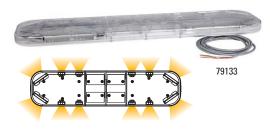
#### LED MINI LIGHT BAR, CLASS I



#### LED AMBER TOW BARS, CLASS I







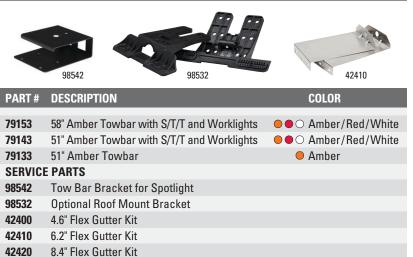
#### **FEATURES & BENEFITS**

- 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
- Materials: aluminum base, polycarbonate lens

#### Voltage: 12 VDC

# Amp Draw: 6.2 amps





#### **AUXILIARY STROBE & STOP LAMPS, CLASS II**





#### **FEATURES & BENEFITS**

- Available in two mounting styles to fit a wide array of vehicles
- Several wiring options to fit all harness systems
- Five amber flashes in four seconds, followed by a solid red burn
- Studies show that flashing brake lights can reduce rear-end accidents by more than 33%

#### Voltage: 12 VDC

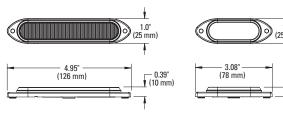
78462 Amp Draw: 0.4 amps 79212 Amp Draw: 0.125 amps @ 12.8 VDC

#### APPROVALS: SAE J845 CLASS II

PART #	DESCRIPTION	COLOR	
SURFACE	MOUNT		
78462	Compact Aux Strobe & Stop Lamp	Amber/Red	
78462-3	Compact Aux Strobe & Stop Lamp (Bulk)	Amber/Red	
BRACKET/GROMMET MOUNT			
79212	6" Oval Aux Strobe & Stop Lamp	Amber/Red	
79212-3	6" Oval Aux Strobe & Stop Lamp (Bulk)	Amber/Red	

# **FEATURES & BENEFITS**

<ul> <li>FEATURES &amp; BENEFITS</li> <li>Ultra-low profile; Single and split-color models</li> <li>12 different selectable flash patterns in either of two phases, plus steady-on</li> <li>Robust design, die-cast aluminum base, optional chrome or white bezels available</li> <li>Standard four wire hook-up, endless mounting possibilities</li> <li>S-Link<sup>™</sup> System allows for flash pattern synchronization with up to six other S-Link compatible units (for hardwire models only)</li> <li>5-year Warranty</li> </ul>				78143
	AMP DRAW	<b>FR</b> : 0.0 @ 10.V		79033
	ED: 0.8 amps @ 12 V 6 Diode LED: 0.55 amps @ 12 V 3 Diode LI S: SAE J595 CLASS I	-		78164
		MBER/BLUE/WHITE		
APPROVAL	S: SAE J595 CLASS II 🛛 🔵 AMBER/BLUE 🛛 🖯 AMBER/WHITI	E ORED/WHITE		•
NOT SAE A	PPROVED: • GREEN • AMBER GREEN		•	
	(25 mm) (25 mm) (10 mm) (10 mm)	(47 mm) (47 mm) (47 mm) (47 mm) (47 mm) (55 mm) (55 mm) (21 mm) (21 mm) (21 mm)	C	98360 98390 98390
D407 //			01.1.00	98400
PART #	DESCRIPTION	VOLTAGE	CLASS	COLOR
	-COLOR LED		Class	
79120 79110	8 Diode LED Full Tri-Color Directional Warning Light 7 Diode LED Full Tri-Color Directional Warning Light	14 to 24 VDC 13 to 24 VDC	Class I Class I	<ul> <li>Full Amber/Full Red/Full White</li> <li>Full Amber/Full Green/Full White</li> </ul>
79100	6 Diode LED Full Tri-Color Directional Warning Light	12 to 24 VDC	Class I	<ul> <li>Full Amber/Full Blue/Full White</li> </ul>
	JAL COLOR LED	12 10 24 000	618551	
78140	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	_	Split Amber/Green
78146	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class II	Split Amber/Blue
78460	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class II	<ul> <li>Split Amber/White</li> </ul>
79080	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class II	• Split Red/White
	COLOR LED		01400 11	
78141	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class I	○ White
78142	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class I	Red
78143	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class I	Amber
78144	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	_	Green
78145	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class I	Blue
79033	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	Class I	Amber
78161	3 Diode LED Directional Light, Surface Mount	12 VDC	Class I	○ White
78162	3 Diode LED Directional Light, Surface Mount	12 VDC	Class I	Red
70100	3 Diode LED Directional Light, Surface Mount	12 VDC	Class I	Amber
78163	3 Diode LED Directional Light, Surface Mount	12 VDC	—	Green
78164		12 VDC	Class I	Blue
78164 78165	3 Diode LED Directional Light, Surface Mount			
78164 78165 SERVICE	•			
78164 78165 SERVICE 98350	PARTS License Plate Bracket			Black
78164 78165 SERVICE 98350 98360	PARTS License Plate Bracket L Bracket			Black
78164 78165 SERVICE 98350	PARTS License Plate Bracket			



#### SURFACE MOUNT

#### LED DIRECTIONAL LIGHT



# **LED DIRECTIONAL WARNING LIGHTS** FEUX D'AVERTISSEMENT DIRECTIONNELS À DEL • LUZ LED DIRECCIONAL DE ADVERTENCIA





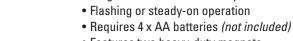
#### **LED WARNING LIGHTS, CLASS I** SURFACE & GROMMET MOUNT **FEATURES & BENEFITS** • 12 different selectable flash patterns in either of two phases, plus steady-on • Only .69" thick • S-Link<sup>™</sup> System allows for flash pattern synchronization with up to six other S-Link compatible units (for hardwire models only) • Grommet mount can be converted to surface mount with optional chrome or black bezels 78193 5-year Warranty Voltage: 12 to 24 VDC Amp Draw: 0.3 amps @ 12 VDC, 0.2 amps @ 24 VDC APPROVALS: SAE J595 CLASS I OMBER BLUE ○ WHITE ● ● AMBER/BLUE 78194 98410 98480 PART # DESCRIPTION VOLTAGE COLOR LED 6" OVAL

78190	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	Amber/Blue
78191	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	○ White
78193	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	Amber
78194	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	Green w/Clear Lens
78195	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	Blue w/Clear lens
SERVICE PARTS			
98410	6" Oval Black Surface Mount Bezel		
98480	6" Oval Chrome Surface Mount Bezel		

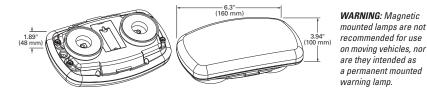
#### **BATTERY-OPERATED LED WARNING LAMPS**

#### MAGNET MOUNT FEATURES & BENEFITS





• Features two heavy-duty magnets



Mag mount attaches securely to back of vehicle or optional galvanized bracket

#### PART # DESCRIPTION COLOR 79202-5 LED Magnetic Warning Lamp Red 79203-5 LED Magnetic Warning Lamp Amber ACCESSORY 42380 Galvanized Bracket

# **FEATURES & BENEFITS**

- Integrated sensor detects ambient temperature and activates heating element to melt snow and prevent ice buildup
- Heavy-duty construction ideal for the harshest environments
- Housing: Die-cast aluminum; Lens: Glass
- Mounting: Single Post Swivel Mount
- 6G Vibration 8 hours; Reverse voltage protection
- Pigtail: Integrated 6-pin DT connector with blunt-cut adapter (included)
- Regulations/Standards: FMVSS 571.108; DOT; SAE UB3; LB: SAE LB3V, SAE J577, IP67
- 2-year warranty

#### Voltage: 12 to 30 VDC

PART #	DESCRIPTION
84661-4	LED Heated Snow Plow Lamps, Automatic Me
SERVICE PA	RTS
84631-5	LED Heated Snow Plow Lamps, Automatic Me
84641-5	LED Heated Snow Plow Lamps, Automatic Me

#### **FEATURES & BENEFITS**

- Heated lens is designed to melt snow and ice in minutes
- Improves the driving experience by providing better detail and reducing eye fatigue, decreasing the chance for accidents
- Long-lasting LEDs outperform OEM halogen and incandescent bulbs in longevity, light output, and pattern
- 64H81-5, 64H71-5: heated function activates automatically to melt snow and ice
- 64H81-5, 64H71-5: designed for a standard H4 connection, no additional wiring needed for vehicles featuring standard H4 wiring
- 64H81-5, 64H71-5: utilizes industry-standard H4 plug - 2-year warranty

#### Voltage: 12 to 30 VDC

64H81-5: Low Beam: Heat On: 3.2 amps at 12 V, 39 W, Heat Off: 0.92 amps at 12 V, 11 W High Beam: Heat On: 4.5 amps at 12 V, 54 W, Heat Off: 2.7 amps at 12 V, 32 W, Parking: 0.09 at 12 V, 3 W

64H71-5: Low Beam: Heat On: 3.0 amps at 12 V, 36 W, Heat Off: 0.94 amps at 12 V, 11 W High Beam: Heat On: 4.5 amps at 12 V, 54 W, Heat Off: 2.7 amps at 12 V, 32 W Parking: 0.09 at 12 V, 3 W

64J61-5, 64J71-5: Low Beam: Heat On: 3.2 amps at 12 V, 38 W, Heat Off: 0.75 amps at 12 V,9 W High Beam: Heat On: 3.9 amps at 12 V, 47 W, Heat Off: 1.4 amps at 12 V, 17 W

PART #	DESCRIPTION
64H81-5	Heated 5"x7" LED "Sealed Beam" Headlight
64H71-5	Heated 7" LED "Sealed Beam" Headlight
64J71-5	Heated 4"x6" LED Headlamp, Low Beam
64J61-5	Heated 4"x6" LED Headlamp, High Beam

79203-5

#### HEATED LED SNOW PLOW LAMPS

PAIR PACK 84661-4 222 8.43' HEATED elt, Pair Pack elt, Driver/Left only elt, Passenger/Right only

#### **HEATED LED HEADLAMPS**





HFATFD

64H71-5 222

64J71-5 **???** 



64J61-5 **???** 



#### LED TRAFFIC DIRECTORS, CLASS I





98524 (not included)

#### **FEATURES & BENEFITS**

- 34 selectable warning flash patterns, plus five 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)
- Ideal for front push bumpers, pickup trucks, headache rack, running board lights
- Weatherproof interior or exterior mount
- 5-year warranty

#### Voltage: 12 VDC

7

Amp draw: 2 amps average (4 head), 3 amps average (6 head), 4 amps average (8 head) @ 12 V

#### APPROVALS: SAE J575 CLASS I

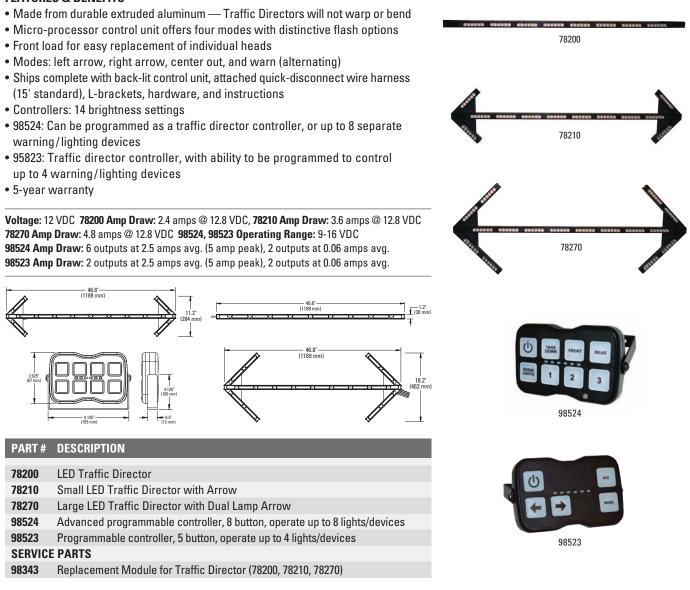
PART #	DESCRIPTION	COLOR
78370	20" LED 4 Module Warning Stick	Amber
78380	30" LED 6 Module Traffic Director	Amber
78410	40" LED 8 Module Traffic Director	Amber
SERVICE PARTS		
98343	Replacement Module	🗕 Amber
98345	Replacement Module	Blue
98341	Replacement Module	$\odot$ White
98342	Replacement Module	🔍 Red
98344	Replacement Module	Green
98524	Advanced Programmable Controller, 8-Button	





#### **FEATURES & BENEFITS**

- (15' standard), L-brackets, hardware, and instructions
- warning/lighting devices
- up to 4 warning/lighting devices



78200	LED Traffic Director
78210	Small LED Traffic Director with Arrow
78270	Large LED Traffic Director with Dual Lamp Arrow
98524	Advanced programmable controller, 8 button, opera
98523	Programmable controller, 5 button, operate up to 4 li
SERVICE	PARTS
98343	Replacement Module for Traffic Director (78200-782

# 

#### LED TRAFFIC DIRECTORS/ARROWS



#### GROTE S-LINK<sup>™</sup> SYSTEM





S-Link System is a proprietary technology that will allow similar S-Link products to be synchronized. This would allow for a user to define the flash patterns on multiple devices for a customized, tailored look on a vehicle.

Only S-Link compatible products can be synchronized together. "S-Link" allows you sync up to 6 products. "S-Link 2.0" allows you sync up to 10 products. If all of your products have "S-link 2.0"; that system will also have "hot swapping" capability, meaning any product replaced or added to the system will automatically sync without reprogramming. Refer to user installation manuals for details on S-Link System synchronization.

#### WARNING & HAZARD RETAIL PRODUCTS



Grote delivers with innovative and eye-catching retail display solutions, including spinning racks, shelf talkers, aisle stoppers, end caps, and more. When it comes to selling, knowledge is power.



Grote's Warning & Hazard products feature refreshed and retail-friendly full-color boxes. This "best-in-class" retail packaging informs your customers of all the critical safety features and key product benefits, to help them make a correct purchase decision for their application. Our consistent carton sizes, with large images, make them easy to display and organize on your shelves.

Add a Grote Warning and Hazard retail section to your showroom today!

# WE KNOW THE **POVVER** of a good **CONNECTION**



#### MANY WAYS TO CONNECT, MANY WAYS TO GROW TOGETHER

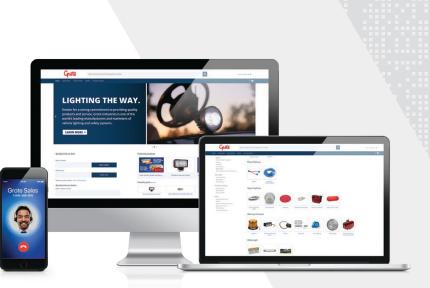
From our updated website with instant-search and live technical help, to our completely refreshed G24/7 ONLINE CUSTOMER SERVICE PLATFORM,

Grote's experienced team of sales and customer solutions experts are never more than a click or a phone call away. Let us help you connect with your customers, with our digital tools, best-in-class customer service and innovative safety solutions.

# **CONTACT US**



At Grote Industries, **WE ARE COMMITTED TO TAKING CARE OF OUR CUSTOMERS** by ensuring that they receive the information and products they need, when they need them. That's why we are continually investing in industry-leading technology that allows us to connect to our valued customers.





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#### **GROTE MANUFACTURING LTD.**

230 TRAVAIL ROAD MARKHAM, ONTARIO L3S 3J1 CANADA T 905-209-9744 800-268-5612 F 905-209-9757 800-267-9024

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