



ECCO®

PRODUCT GUIDE

warning lights back-up alarms camera systems



JOMON
PERSADA
NUSANTARA

2008



Our Commitment

Our consuming passion is to provide you with products and services so outstanding that you are delighted by every contact with our company.

To support this passion we have dedicated our resources to innovative manufacturing processes, and world-class customer service. We treat your business and profitability as if it were our own.

Whether you are an old friend or a first-time buyer, you have our commitment to exceeding your expectations. If we ever fall short,

President & Chief Operating Officer

Chris Thompson

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All of us pictured above look forward to fulfilling this commitment.

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Profile Inside back Cover



AMECA Certification - ECCO's Engineering Test Lab is certified by the Automotive Manufacturers Equipment Compliance Agency (AMECA) to perform testing on warning lights per the Society of Automotive Engineers (SAE) requirements. ECCO test reports are reviewed by AMECA and a Notice of Equipment Compliance is issued which is then noted here as AMECA certified.

Lighting Symbol Guide

LIGHT SOURCE SYMBOLS



LED Indicates LED (Light emitting diode) lights



LED HYBRID Indicates 360° LED/Rotator hybrid lights



STROBE Indicates gaseous discharge strobe lights (Xenon)



ROTATOR Indicates 360° rotating halogen lights



FLASHERS Indicates either incandescent or halogen solid state flashers

SAE CLASS METER



Class I Meets SAE Class I (All Class I lights meet SAE Class II & III)



Class II Meets SAE Class II (All Class II lights meet SAE Class III)



Class III Meets SAE Class III

NOTE: Where a symbol shows Class I and II, the product features self adjusting (Smart Strobe®) operation and the lower intensity mode meets Class II.

NEW Products In This Catalog

Welcome to ECCO's 2008 Product Guide, within this catalog you will find our full line of products displayed in what we hope you will find an easy to reference format. Of special significance in this guide is the exciting line up of new products available this year.

Beacons

See pages 3-7 & 14 for six new LED beacons included in this guide. Our 7100 Series – Reflex™ beacon features reflector technology, multiple flash patterns, synchronization capability and meets SAE Class I and California Title 13 requirements. The 7400 Series – Profile™ beacon also features a LED/Reflector design in a single flash pattern light that is highly compact yet offers SAE Class I light output. The 7600 Series – RotoLED™ beacon features a hybrid LED/Rotator design, offering the best of both worlds, as well as meeting SAE Class I. The new SAE Class II 7940 and 6460 Series industrial LED are additions to existing popular light series.

Minibars

Three LED additions to the minibar line are featured on pages 35, 38 & 39. The 5180 Series – Blaze® II is an addition to our highly popular low profile line while the all new 5280 Series - RotoLED™ features hybrid LED/Rotator technology. Both meet SAE Class I requirements. The 5000 Series adds another highly capable yet budget conscious LED minibar to our offering.

Directional Lights

On page 44 the new 3510 Series surface mount directional LED provides SAE Class I warning, premium functionality, and the power of 24 1-watt LEDs in a super slimline housing. See page 46-47 for two new additions to the 3700 Series product line, a California Title 13 approved, 3760 grommet mount model, and a smaller 3730 model. Both offer similar functionality to the original 3710, the 3760 meets SAE Class I while 3730 meets Class II. Further additions are the 9010, 9011, 9012, 9021 & 9031 Series – HIDE-A-LED™ concealed warning lights on pages 50 & 51 that eliminate the need for remote power supplies and offer multiple flash patterns and synchronization capability.

Camera Systems

ECCO's new Gemineye™ line of camera systems is featured on pages 74-83. Choose from 3 sizes of LCD monitor from 3.5" up to 7.0" widescreen, 5 camera styles including automatic shutter and eyeball models as well as controller and DVR options. Gemineye™ Camera Systems offer a configuration to suit any application.

ECCO®'S LINE OF BEACONS

ECCO offers a beacon to suit any user application, on or off road, industrial or agricultural we have the product to suit your needs. Strobe, rotator, LED and incandescent versions are available with a variety of intensity, flash rate and mounting options to choose from.

7100 Series REFLEX™



Page 3



- ▶ SAE Class I, Title 13, CE, e
- ▶ 12-24 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ Multi Flash, Hi/Lo Intensity, Sync
- ▶ 5 year warranty

7400 Series

PROFILE™



Page 4



- ▶ SAE Class I, CE
- ▶ 12-36 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ Pulse8
- ▶ 5 year warranty

7600 Series

ROTOLED™



Page 5



- ▶ SAE Class I, CE, e
- ▶ 12-24 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ 125 FPM LED Hybrid Rotator
- ▶ 5 year warranty

7900 Series

pulse



Page 6 & 7



- ▶ SAE Class I or Class II, CE, e
- ▶ 12-24 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ Double/Quad, Hi/Lo Intensity
- ▶ 5 year warranty

6900 Series



Page 8 & 9



- ▶ SAE Class I, CE, e
- ▶ 12-24 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ Smart, Double/Quad, Hi/Lo Intensity
- ▶ 2 year warranty

6700 Series



Page 10



- ▶ SAE Class II, CE, e
- ▶ 12-24 or 12-48 VDC
- ▶ Aluminum or Nylon Base
- ▶ 3 Bolt / 1" Pipe
- ▶ Double/Quad
- ▶ 2 year warranty

6600 Series



Page 11



- ▶ SAE Class II, CE, e
- ▶ 12-24 VDC
- ▶ 3 Bolt / 1" Pipe / Mag
- ▶ Smart, Double/Quad, Hi/Lo Intensity
- ▶ 2 year warranty

6500 Series



Page 12



- ▶ SAE Class II, CE
- ▶ 12-48 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ Double/Quad
- ▶ 2 year warranty

6500 - J Bolt



Page 13



- ▶ SAE Class II, CE, UL
- ▶ 12-48 VDC
- ▶ J Bolt / Flush / Mag / 3/4" Pipe / 1" Pipe
- ▶ Single/Double or Triple/Quad
- ▶ 2 year warranty

6400 Series



Page 14 & 15



- ▶ CE, e, UL
- ▶ 12-80 VDC
- ▶ 3 Bolt / Mag
- ▶ Pulse8/Rotate (LED), Single (strobe)
- ▶ 5 year (LED) 6 month/2 year (strobe) warranty

6200 Series



Page 16 & 17



- ▶ CE, e, UL
- ▶ 12-80 VDC
- ▶ 2 Bolt / 1/2" Pipe
- ▶ Pulse8 (LED), Single (strobe)
- ▶ 5 year warranty

5800 Series



Page 18 & 19



- ▶ SAE Class I, CE, e, E
- ▶ 12 VDC
- ▶ 1 Bolt Flexi / 3 Bolt / Flexi Pole / Mag
- ▶ 160 FPM Belt Drive Rotator
- ▶ 1 year warranty

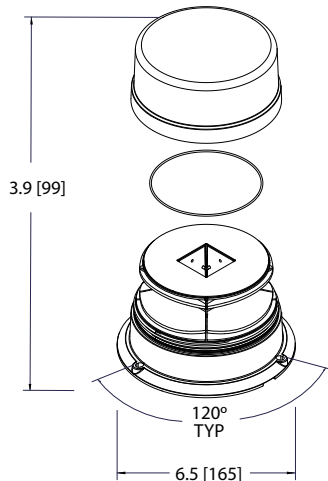
5700 Series



Page 20



- ▶ SAE Class I
- ▶ 12 or 24 VDC
- ▶ 3 Bolt / 1" Pipe / Vac Mag
- ▶ 135 FPM Gear Drive Rotator
- ▶ 2 year warranty



Coated aluminum heat sink is specifically designed to efficiently dissipate heat from the LEDs throughout the entire beacon base.

Eight high intensity, 3-watt LEDs combined with unique reflectors provide powerful 360° SAE Class I light output.

- 5 wire connection allows easy flash pattern and hi/lo intensity selection and synchronization



Features

- Eight 3-watt LEDs and reflector technology produce a high intensity warning signal.
- Steady burn, Double (2), Quad, Quint, Pulse8, Rotating (3), Title 13 (3), and Cycle (3) flash patterns.
- Hi/lo intensity control.
- Multiple units can be synchronized.
- Die cast aluminum base is coated against corrosion and designed for vibration resistance and heat dissipation. Permanent mount models are sealed in epoxy for added protection.
- Warranty: 5 years
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J845 Class I (except green)
- California Title 13 (except green)
- CE, e
- IP Rating 66 (3 bolt mount)



- 7160 Series SAE Class I LED

NEW



The 7160 Series - Reflex™ LED beacon provides the ultimate level of power, versatility and style available in an LED beacon. The latest high intensity LEDs combined with reflector technology produce a powerful, SAE Class I/Cal Title 13, warning signal in a light that also offers premium features including multiple flash patterns, hi/lo intensity control and synchronization capability. Low amp draw, zero maintenance and an extended life backed by a 5 year warranty make this light an obvious choice to replace strobe or rotating lights.

Replace X in part number with desired lens or LED color: A = amber, B = blue, C = clear, G = green, R = red

Reflex™ - Multi Flash (15)						
PART NO.	VOLTAGE	COLOR		AMPS	FPM	3 BOLT/ 1" PIPE
		LENS	ILLUMINATION			
7160X	12-24	SPECIFY COLOR	MATCHES LENS COLOR	3.2	VARIES BY PATTERN	
7160CX		CLEAR	SPECIFY COLOR			
7160X-VM	12-24	SPECIFY COLOR	MATCHES LENS COLOR	3.2	VARIES BY PATTERN	
7160CX-VM		CLEAR	SPECIFY COLOR			

Multi Flash (15): Flash intensity, flash pattern and synchronization is user selected at time of installation.

7160 Series Replacement Parts



Lens				
AMBER	BLUE	CLEAR	GREEN	RED
R7160LA	R7160LB	R7160LC	R7160LG	R7160LR

7460 Series - PROFILE™ SAE Class I LED

NEW



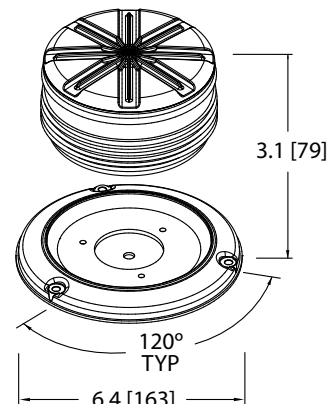
The compact and unobtrusive 7460 Series Profile™ LED Beacon incorporates a simple yet highly effective and robust design featuring an overhead heatsink that also allows removal of the flange when the unit is pipe mounted. The 7460 features a 'Pulse8' flash pattern that human vision is highly sensitive to in the periphery, increasing potential visibility where vehicle hazards are not in direct line of sight. A 5 year warranty and the usual maintenance free, low amp draw benefits of LED technology make this an ideal light for any application.

Features

- Eight 3-watt LEDs and a parabolic reflector produce attention getting SAE Class I light output.
- Human peripheral vision is highly sensitive to Pulse8 pattern that features 8 flashes per cycle (75FPM).
- Overhead heatsink design allows for unobtrusive pipe mounting with flange removed
- Warranty: 5 years
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J845 Class I (except green)
- CE
- IP Rating 67



- Detachable flange design allows easy and unobtrusive pole mounting. Pole not included. See page 21.

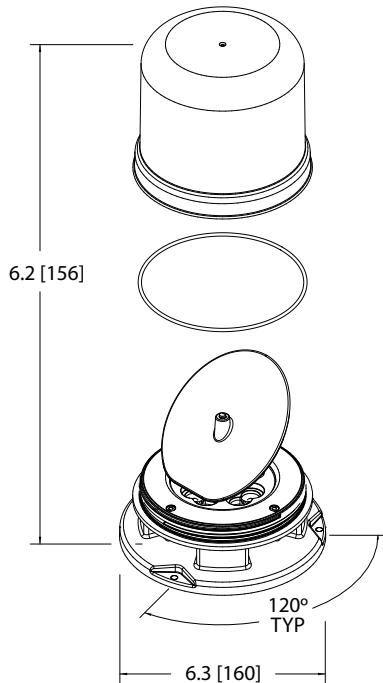
Replace X in part number with desired lens or LED color: A = amber, B = blue, C = clear, G = green, R = red

Profile™ - Pulse8 Flash



3 BOLT FLANGE / 1" PIPE	PART NO.	VOLTAGE	COLOR		AMPS	FPM
			LENS	ILLUMINATION		
	7460X	12-36	SPECIFY COLOR	MATCHES LENS COLOR	1.0	75 Pulse8
	7460CX		CLEAR	SPECIFY COLOR		
VACUUM MAGNET	7460X-VM	12-36	SPECIFY COLOR	MATCHES LENS COLOR	1.0	75 Pulse8
	7460CX-VM		CLEAR	SPECIFY COLOR		

Pulse8 Flash: 8 flashes per cycle (75FPM)



Features

- ▶ LED Hybrid technology provides a high intensity rotating warning signal with no gears, brushes or bulbs to wear out.
- ▶ Eight 3-watt LEDs combined with a TIR optic produce an exceptionally bright warning beam.
- ▶ Polycarbonate lens features a UV hard coating to greatly reduce cracking, hazing, abrasion and fading.
- ▶ 1" pipe mount flange accessory available (order separately A7660PF).
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- ▶ SAE J845 Class I (except B, CA, CG & G)
- ▶ CE, e
- ▶ IP Rating 67

ROTOLED™ - 7660 Series SAE Class I LED Hybrid



The 7660 Series RotoLED™ beacon combines all the major benefits of the latest LEDs with the unmistakable warning signal of a rotator, without compromising reliability. LED hybrid technology uses a brushless magnetic drive system to spin the reflector disk, reducing noise and eliminating the typical motor/gear drawbacks associated with conventional rotators. The 7660 also features eight 3-watt LEDs and a TIR optic to provide SAE Class I light output. Additional benefits include an extended, service free life, low amp draw and a 5 year warranty.

45° angled reflector driven by a quiet brushless magnetic drive system provides an exceptional warning beam without compromising reliability.

Eight high intensity, 3-watt LEDs combined with a unique TIR optic project light onto the reflector to provide SAE Class I light output.

Unique base design efficiently dissipates heat from the LEDs



Replace X in part number with desired lens or LED color:
A = amber, B = blue, C = clear, G = green, R = red




RotoLED™

PART NO.	VOLTAGE	COLOR		AMPS	FPM	3 BOLT FLANGE 
		LENS	ILLUMINATION			
7660X	12-24	SPECIFY COLOR	MATCHES LENS COLOR	1.7	125	
7660CX		CLEAR	SPECIFY COLOR			
7660X-VM	12-24	SPECIFY COLOR	MATCHES LENS COLOR	1.7	125	VACUUM MAGNET 
7660CX-VM		CLEAR	SPECIFY COLOR			

7960 Series - pulse®

SAE Class I LED



7960CX-VM

7960A

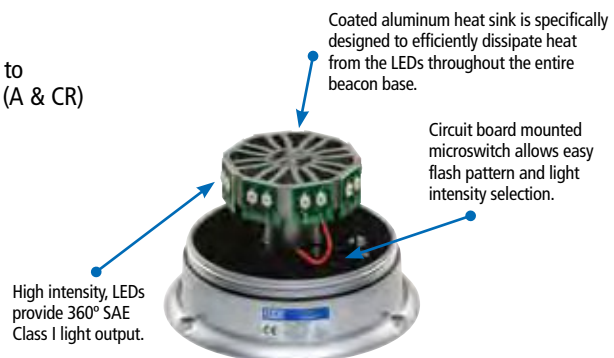
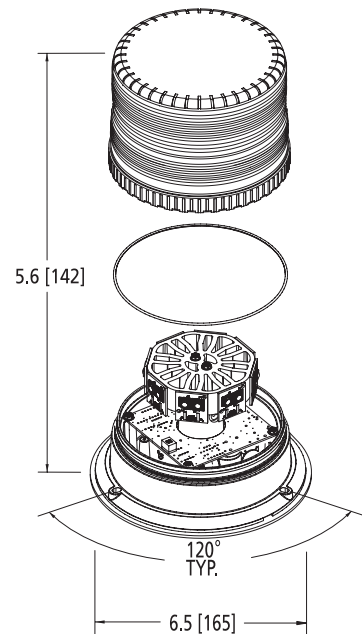
ECCO's 7960 Series LED Beacons feature 16 of the latest high intensity 3-watt LEDs providing SAE Class I light output. Double or quad flash operation and hi/lo intensity control combined with a long maintenance free service life and low amp draw make this beacon the perfect choice for both on and off-road applications. Easily replaces old rotating or strobe beacons with the latest technology so no ongoing maintenance is required.

Features

- ▶ Sixteen 3-watt LEDs provide unrivalled flash intensity
- ▶ Double or quad flash operation with hi/lo intensity control
- ▶ Die cast aluminum base is coated against corrosion. Permanent mount models are sealed in epoxy for added protection
- ▶ Thread-on polycarbonate lens allows easy flash mode selection without tools
- ▶ Reverse polarity, voltage spike and surge protected
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- ▶ AMECA certified to SAE J845 Class I (A & CR)
- ▶ CE, e
- ▶ IP Rating 56



Replace X in part number with desired lens or LED color: A = amber, B = blue, C = clear, R = red

Pulse® - Double / Quad Flash						LED®	1
3 BOLT FLANGE / 1" PIPE	PART NO.	VOLTAGE	COLOR		AMPS	FPM	
			LENS	ILLUMINATION			
	7960X	12-24	SPECIFY COLOR	MATCHES LENS COLOR	3.7	80 Double or 65 Quad	
	7960CX		CLEAR	SPECIFY COLOR			
VACUUM MAGNET	PART NO.	VOLTAGE	LENS	ILLUMINATION	AMPS	FPM	
	7960X-VM	12-24	SPECIFY COLOR	MATCHES LENS COLOR	3.7	80 Double or 65 Quad	
	7960CX-VM		CLEAR	SPECIFY COLOR			

Double/Quad Flash: Flash Intensity and Double or Quad flash mode are user selectable via on-board switch.



- 7940 Series SAE Class II LED

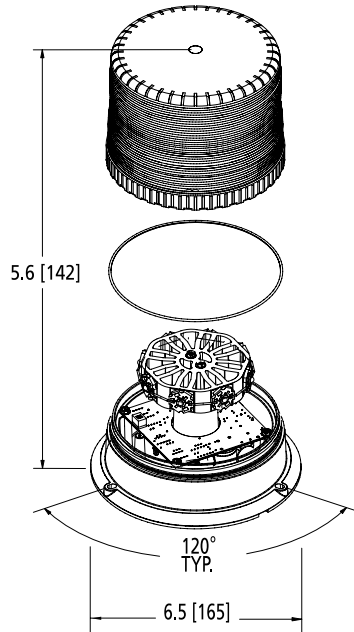
NEW



7940CX-VM

7940A

ECCO's 7940 Series LED Beacons feature 8 of the latest high intensity 1-watt LEDs providing SAE Class II light output. Double or quad flash operation combined with a long maintenance free service life and low amp draw make this beacon a cost effective choice for many applications. Easily replaces old rotating or strobe beacons with the latest technology so no ongoing maintenance is required.



Features

- ▶ Eight 1-watt LEDs provide high intensity light output
- ▶ Double or quad flash operation
- ▶ Die cast aluminum base is coated against corrosion
- ▶ Thread-on polycarbonate lens allows easy flash mode selection without tools
- ▶ Reverse polarity, voltage spike and surge protected
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- ▶ SAE J845 Class II
- ▶ CE, e
- ▶ IP Rating 56

Replace X in part number with desired lens or LED color: A = amber, B = blue, C = clear, R = red

Pulse® - Double /Quad Flash						
PART NO.	VOLTAGE	COLOR		AMPS	FPM	3 BOLT FLANGE / 1" PIPE
		LENS	ILLUMINATION			
7940X	12-24	SPECIFY COLOR	MATCHES LENS COLOR	1.5	80 Double or 65 Quad	
7940CX		CLEAR	SPECIFY COLOR			
7940X-VM	12-24	SPECIFY COLOR	MATCHES LENS COLOR	1.5	80 Double or 65 Quad	
7940CX-VM		CLEAR	SPECIFY COLOR			

Double/Quad Flash: Double or Quad flash mode are user selectable via on-board switch.

7940/7960 Series Replacement Parts



Lens			
AMBER	BLUE	CLEAR	RED
R7960LA	R7960LB	R7960LC	R7960LR

6900 Series SAE Class I Strobe



Medium 6970A-VM



ECCO's 6900 Series strobes feature our patented i.beam® LED technology. i.beam® constantly monitors circuit board and flashtube performance on each flash cycle. If the lamp fails and the circuit board LED is still flashing the user immediately knows that only the flashtube needs replacing.

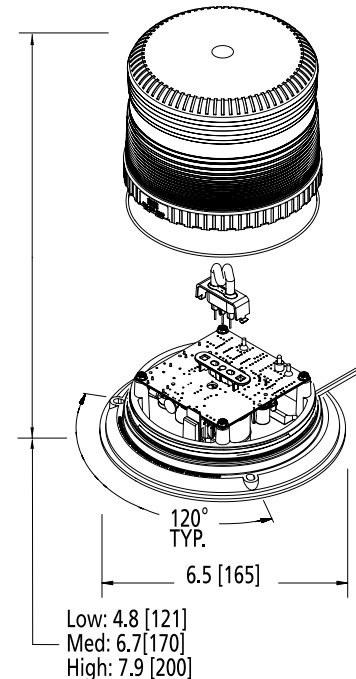
Smart Strobe® versions feature automatic adjustment for day/night operating intensity and double or quad flash rate is selectable at installation. Non-smart models operate constantly at the SAE Class I output level and feature double or quad flash modes (selectable during installation).

Features

- ▶ Die-cast aluminum base is coated against corrosion and designed for vibration resistance and heat dissipation.
- ▶ Thread-on polycarbonate lens and snap-fit flashtube allows easy field service without tools.
- ▶ Shock-resistant circuit board mounting incorporates 7 support points.
- ▶ Circuit board is conformal coated to prevent corrosion.
- ▶ Consistent operation during voltage and temperature changes.
- ▶ Reverse polarity, voltage spike and surge protected.
- ▶ Warranty: Strobe = 2 years / Flashtube = 6 months
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- ▶ AMECA certified to SAE J1318 Class I (A & C)
- ▶ CE, e
- ▶ IP Rating 66



i.Beam® on-board LED diagnostic indicator constantly monitors circuit board and flashtube operation. LED illuminates on each flash cycle enabling easy flashtube fault detection.

Convenient snap-fit flashtube and screw on lenses means no tools are required for tube replacements.

Circuit board mounting incorporates 7 "pressure points" to combat vibration.

Smart Strobe® models automatically adjust light intensity for day or night time operation using an on-board photocell to sense ambient light on each flash cycle.

Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

Smart Strobe®			i.beam®			
3 BOLT FLANGE / 1" PIPE	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
	6955X	LOW	12-24	2.9	10 to 15 Double or 16 to 20 Quad	75 Double or 65 Quad
	6975X	MEDIUM				
	6995X	HIGH				

Smart Strobe®: On-board photo cell automatically adjusts flash intensity for day or night operation. Double or Quad flash mode is user selected at time of installation.

(continued) 6900 Series

Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

  						Double / Quad Flash
PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM	3 BOLT FLANGE / 1" PIPE
6950X	LOW	12-24	2.9	15 Double or 20 Quad	75 Double or 65 Quad	  
6970X	MEDIUM					
6990X	HIGH					
6950X-VM	LOW	12-24	2.9	15	75 Double	 
6970X-VM	MEDIUM					

Double/Quad Flash: Double or Quad flash mode is user selected at time of installation on 6950 & 6970 models. High intensity flash output on all models.



6900 Series Replacement Parts

Flashtube		Lenses				
PART NO.	PROFILE	AMBER	BLUE	CLEAR	GREEN	RED
R6501FT	LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR
	MEDIUM / HIGH	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR



6700 Series SAE Class II Strobe Severe Vibration Applications



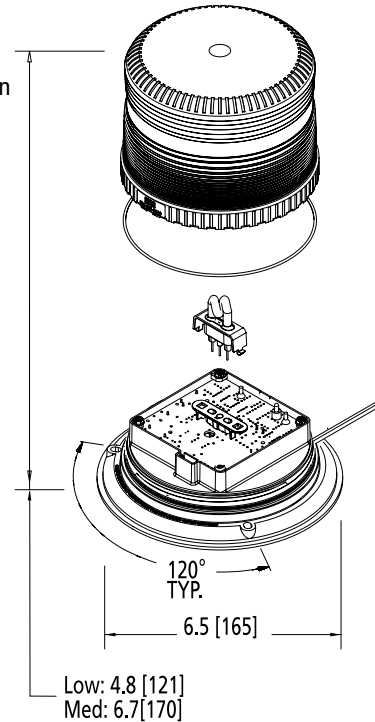
Designed to meet all the harsh operational requirements of heavy mobile equipment. Both versions of the 6700 Series strobe are built to withstand the toughest applications, severe vibration, pressure washing and steam cleaning. Power supplies are completely encapsulated in epoxy resin and 6750/6770 versions feature ECCO's patented i.beam® flash technology to monitor circuit board and flashtube operation.

Features

- Circuit board is completely encapsulated in epoxy resin for protection against moisture, dust and vibration.
- Choice of base types: Powder coated aluminum or reinforced nylon.
- 6750 and 6770 models feature i.beam® LED diagnostic indicator.
- Thread-on polycarbonate lens and snap-fit flashtube allows easy field service without tools.
- Consistent operation during voltage and temperature changes.
- Reverse polarity, voltage spike and surge protected.
- Warranty: Strobe = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J1318 Class II (A & C)
(6750/70 models are AMECA certified)
- CE, e
- IP Rating 66



Replace X in part number with desired color:
A = amber, B = blue, C = clear, G = green, R = red

Double / Quad Flash

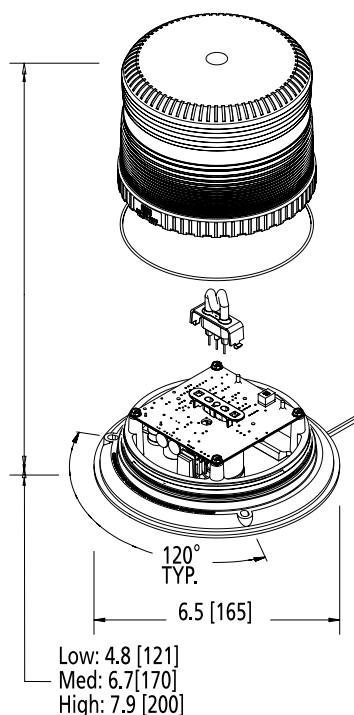
ALUMINUM BASE	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
3 BOLT FLANGE / 1" PIPE Low Medium	6750X	LOW	12-24	2.3	10 Double or 16 Quad	75 Double or 65 Quad
	6770X	MEDIUM				
REINFORCED NYLON BASE	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
3 BOLT FLANGE / 1" PIPE 	6710X	LOW	12-48	1.5	7 Double or 10 Quad	75 Double or 65 Quad
	6720X	MEDIUM				

Double/Quad Flash: Double or Quad flash mode is user selected at time of installation.

6600, 6700 Series Replacement Parts



Lenses						Flashtube
PROFILE	AMBER	BLUE	CLEAR	GREEN	RED	PART NO.
LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR	R6501FT
MEDIUM / HIGH	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR	



Features

- Die-cast aluminum base is coated against corrosion and designed for vibration resistance and heat dissipation.
- Thread-on polycarbonate lens and snap-fit flashtube allows easy field service without tools.
- Shock-resistant circuit board mounting incorporates 7 support points.
- Circuit board is conformal coated to prevent corrosion.
- Consistent operation during voltage and temperature changes.
- Reverse polarity, voltage spike and surge protected.
- Warranty: Strobe = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- AMECA certified to SAE J1318 Class II (A, B, C & R)
- CE, e

Replace X in part number with desired color:
A = amber, B = blue, C = clear, G = green, R = red

6600 Series SAE Class II Strobe



6600 Series strobes are available in two versions to suit a wide variety of applications. Smart Strobe® versions offer self adjustment for day/night operating intensity and manual flash rate switching. Double/Quad flash versions feature manual control of light intensity and flash rate using a circuit board mounted microswitch.

Smart Strobe®						3 BOLT FLANGE / 1" PIPE		
PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM			
6655X	LOW	12-24	2.0	8 to 13 Double or 12 to 17 Quad	65 Double or 65 Quad	High	Medium	Low
6675X	MEDIUM							
6695X	HIGH							

Smart Strobe®: On-board photo cell automatically adjusts flash intensity for day or night operation. Double or Quad flash mode is user selectable via on-board switch.

Double / Quad Flash						3 BOLT FLANGE / 1" PIPE		
PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM			
6650X	LOW	12-24	2.0	8 or 13 Double or 12 or 17 Quad	65 Double or 65 Quad	High	Medium	Low
6670X	MEDIUM							
6690X	HIGH							
6650X-MG	LOW	12-24	2.0	8 or 13 Double or 12 or 17 Quad	65 Double or 65 Quad	MAGNET		
6670X-MG	MEDIUM					Medium	Low	

Double/Quad Flash: Flash Intensity and Double or Quad flash mode are user selectable via on-board switch.

6500 Series SAE Class II Strobe



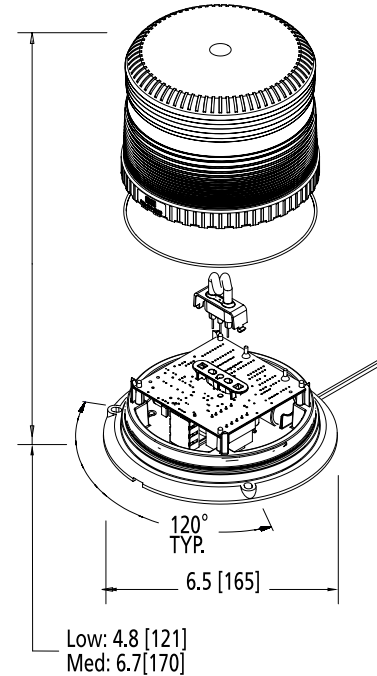
ECCO's 6500 Series strobe light offers outstanding value when a cost effective SAE Class II light is required. Featuring a shock-resistant 5-point power supply mounting and robust reinforced nylon base, this series of lights are suitable for both on or off highway applications.

Features

- Robust glass filled nylon base.
- Thread-on polycarbonate lens and snap-fit flashtube allows easy field service without tools.
- Shock-resistant circuit board mounting incorporates 5 support points.
- Circuit board is conformal coated to prevent corrosion.
- Consistent operation during voltage and temperature changes.
- Warranty: Strobe = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- AMECA certified to SAE J1318 Class II (A, B, C & R)
- CE



Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

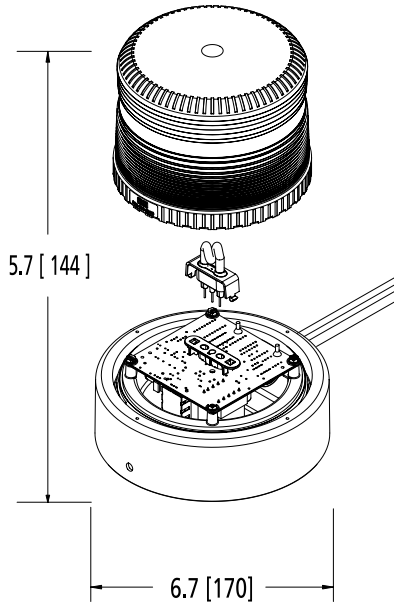
Double / Quad Flash  						
3 BOLT FLANGE / 1" PIPE	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
Low  Medium 	6550X	LOW	12-48	1.5	7 Double or 10 Quad	80 Double or 65 Quad
	6570X	MEDIUM				
VACUUM MAGNET	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
Low  Medium 	6550X-VM	LOW	12-48	1.5	7	80 Double
	6570X-VM	MEDIUM				

Double/Quad Flash: Double or Quad flash mode is user selected at time of installation on 6550 & 6570 models.

6500 Series / 6500 J-Bolt Replacement Parts



Lenses						Flashtube
PROFILE	AMBER	BLUE	CLEAR	GREEN	RED	PART NO.
LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR	R6501FT
MEDIUM / HIGH	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR	



Features

- Die-cast aluminum base is coated against corrosion and designed for vibration resistance and heat dissipation.
- Choice of 4 additional mounting options.
- Shock resistant circuit board housing incorporates 6 support points.
- Thread-on polycarbonate lens and snap-fit flashtube allows easy field service without tools.
- Consistent operation during voltage and temperature changes.
- Warranty: Strobe = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- AMECA certified to SAE J1318 Class II (A, B, C & R)
- CE,

6500 J-Bolt SAE Class II Strobe



All the great features of the 6500 Series with the added benefit of an easy and convenient J-Bolt mount for fast installation and/or removal. ECCO's J-Bolt mount also features a die cast aluminum base incorporating ECCO's exclusive built-in capacitor cradle providing even and efficient heat dissipation.

Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

  Single / Double Flash							
PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM		
6520X	LOW	12-48	1.5	5 Single or 7 Double	80 Single or 80 Double	 	
6530X	MEDIUM						

Single/Double Flash: Single or Double flash mode is user selected at time of installation.

Additional Mounting Options				
ECCO's popular J-Bolt mount strobes are available with a range of additional mounting options in order to satisfy any fleet requirements. Order separately.				
	Flush Mount Base A6520FM	Magnet Mount Base A6520MG	3/4" Pipe Mount Base A6520PM	1" Pipe Mount Base A6521PM

6460 Series Low Intensity LED Industrial Applications



6460A-MG

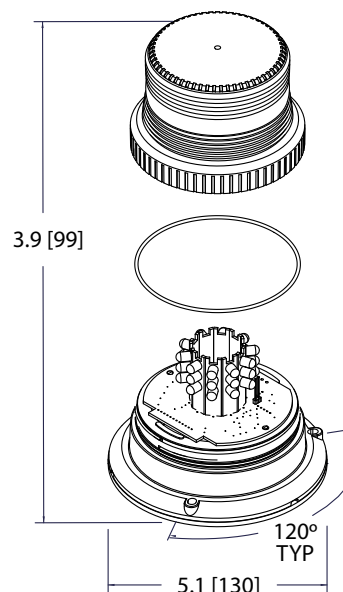
ECCO's maintenance free 6460 Series LED Beacon features 30 1/4-watt LEDs and offers a choice of rotating or Pulse8 operation, producing a warning signal that is ideal for industrial type applications. The long, maintenance free service life of LED technology, backed by a 5 year warranty, make this a perfect replacement solution for existing strobe beacons. This cost effective light features a wide 12-80V operating range that also makes it perfect for use on electrically powered vehicles and equipment.

Features

- ▶ 30 1/4-watt LEDs.
- ▶ 12-80v Pulse8 or rotating operation.
- ▶ Reinforced nylon base and polycarbonate lens.
- ▶ Reverse polarity, voltage spike & surge protected.
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F - +122°F (-30°C - +50°C)

Approvals

- ▶ CE, e,



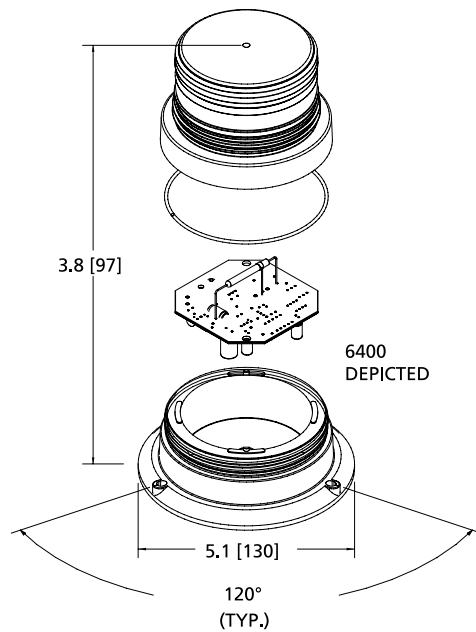
Replace X in part number with desired color:
A = amber, B = blue, C = clear, G = green, R = red

Pulse8 / Rotating Flash 				
3 BOLT FLANGE	PART NO.	VOLTAGE	AMPS	FPM
	6460X	12-80	0.3	45 Pulse8 or 120 Rotating
MAGNET	PART NO.	VOLTAGE	AMPS	FPM
	6460X-MG	12-80	0.3	45 Pulse8 or 120 Rotating



Pulse8/Rotating Flash: Pulse8 (8 flashes per cycle (45 FPM)) or rotating flash mode are user selectable via on-board jump pins.

6400 Series Low Intensity Strobe Industrial Applications



Features

- Compact and economical low intensity strobe ideal for industrial applications.
- Rugged glass filled nylon base and polycarbonate lens.
- 6410 and 6410-MG models feature field replaceable snap-fit flashtube.
- Reverse polarity, voltage spike and surge protected.
- Warranty: 6410, 6410-MG = 2 years
6400 = 6 months / Flashtube = 6 months
- Temperature Range: -22°F to +122°F
(-30°C to +50°C)

Approvals

- CE, e,



ECCO's low profile 6400 Series strobes are designed specifically for forklift and other material handling/industrial applications. The 6400 series offers a cost effective, high quality product that will operate consistently in a full range of 12-80V applications.

Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

Single Flash						3 BOLT FLANGE
PART NO.	FLASHTUBE	VOLTAGE	AMPS	JOULES	FPM	
6400X	NON REPLACEABLE FLASHTUBE	12-80	0.3	1.5	70 Single	
6410X	REPLACEABLE 'U' FLASHTUBE					
6410X-MG	REPLACEABLE 'U' FLASHTUBE	12-80	0.3	1.5	70 Single	MAGNET

Single Flash: Low intensity industrial strobe light.

6400/6460 Series Replacement Parts



Lenses					Flashtube
AMBER	BLUE	CLEAR	GREEN	RED	PART NO.
R6400LA	R6400LB	R6400LC	R6400LG	R6400LR	R6410FT

6260 Series Low Intensity LED Industrial Applications



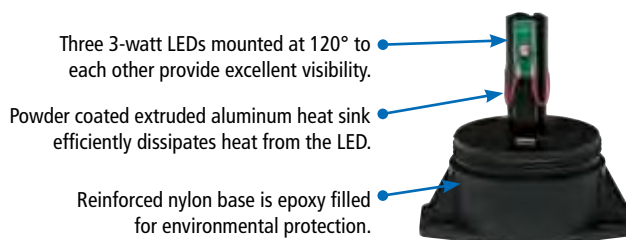
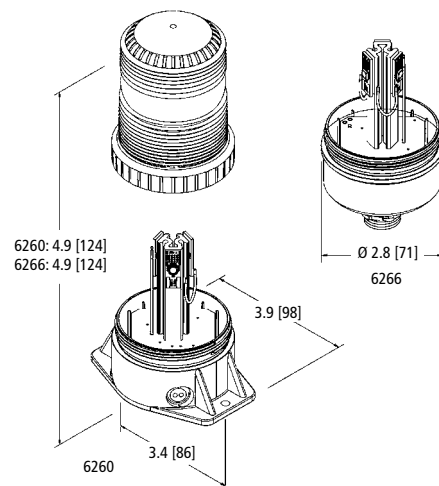
ECCO's maintenance free 6260 Series LED Beacons feature three of the latest 3-watt LEDs and Pulse8 flash operation (70FPM), producing a warning signal ideally suited to industrial applications. This cost effective unit has a wide operating range of 12-80V making it the perfect light for use on electric vehicles. The long, trouble free service life and low amp draw characteristics of LED technology make this an ideal replacement solution for rotating or strobe beacons.

Features

- Utilizes three 3-watt LEDs.
- 12-80V, Pulse8 flash operation (70FPM).
- Reinforced nylon base with epoxy sealed electronics provides superior environmental protection.
- Robust polycarbonate lens.
- Reverse polarity, voltage spike and surge protected.
- Warranty: 5 years
- Temperature Range: -40°F to +158°F (-40°C to +70°C)

Approvals

- CE, e,
- IP Rating 66/67

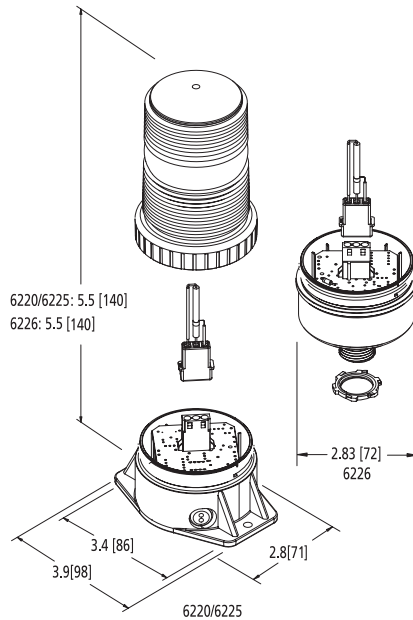


Replace X in part number with desired color:
A = amber, R = red

Pulse8 Flash 				
2 BOLT	PART NO.	VOLTAGE	AMPS	FPM
	6260X	12-80	0.3	70 Pulse8
1/2" PIPE	PART NO.	VOLTAGE	AMPS	FPM
	6266X	12-80	0.3	70 Pulse8

Pulse8 Flash: 8 flashes per cycle (70FPM)





Features

- Compact and economical low intensity strobe ideal for industrial applications.
- Rugged glass filled nylon base and polycarbonate lens.
- Epoxy encapsulated circuit board protects against moisture, dust and vibration.
- Field replaceable snap-fit flashtube.
- Reverse polarity, voltage spike and surge protected.
- Warranty: 6220, 6225 and 6226 = 5 years
Flashtube = 6 months
- Temperature Range: -22°F to +122°F
(-30°C to +50°C)

Approvals

- CE, e,
- IP Rating 66/67

6200 Series Low Intensity Strobe Industrial Applications



6200 Series strobes offer a high quality yet economical lighting solution specifically intended for use in the materials handling industry. These lights are ideal for use in a broad range of industrial applications.

Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

Single Flash					
PART NO.	VOLTAGE	AMPS	JOULES	FPM	
6220X	12-80	0.3	1.5	85 Single	 2 BOLT
6225X		0.5	2		
6226X	12-80	0.5	2	85 Single	 1/2" PIPE

Single Flash: Low intensity industrial strobe light.



6200 Series Replacement Parts

Flashtube	Lenses				
PART NO.	AMBER	BLUE	CLEAR	GREEN	RED
R6200FT	R6220LA	R6220LB	R6220LC	R6220LG	R6220LR

5800 Series SAE Class I Rotator



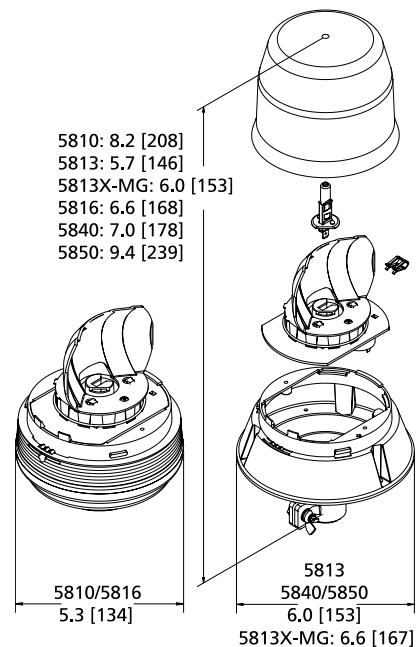
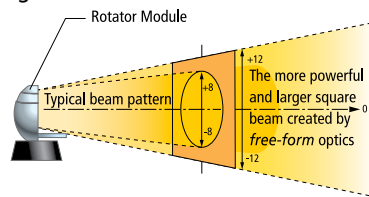
Available in a wide range of base mountings and two height profiles, ECCO's 5800 Series beacons feature smooth and quiet belt-driven rotators incorporating free-form optical reflectors to maximize beam pattern and light output.

Features

- Polycarbonate base and twist-on lens with locking screw.
- Unique Free-form optics rotator modules provide high intensity light output.
- Warranty: Rotator = 1 year / Bulb = 90 days
Belt = ECCOLIFE™
- Temperature Range: -22°F to +122°F
(-30°C to +50°C)

Approvals

- SAE J845 Class I
- E Approved to EC R65 (5840, 5850 only)
- CE, e, E
- IP Rating 54



Replace X in part number with desired color: A = amber, B = blue, R = red

Low Profile Rotator



FLEXI-POLE	PART NO.	VOLTAGE	AMPS	FPM	MOUNTING FEATURES
	5810X	12	5.2	160	FLEXIBLE MOUNT DESIGNED TO FIT DIN POLE MOUNT DIN #72591 (ORDER SEPARATELY)
3 BOLT 	5813X	12	5.2	160	3 BOLT MOUNT
MAGNET 	5813X-MG	12	5.2	160	FACTORY INSTALLED MAGNET WITH 15' STRAIGHT CABLE & CIGARETTE PLUG
1 BOLT FLEXI-BASE Flexible rubber base resists vibration and protects against minor impacts. Single wire thru bolt requires only one mounting hole for quick and easy installation.	5816X	12	5.2	160	1 BOLT MOUNT FEATURES THRU BOLT WIRING

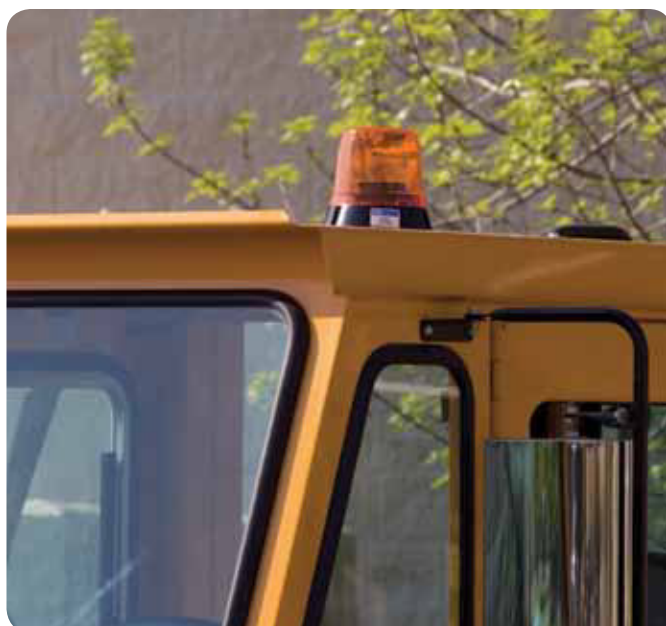
(continued) 5800 Series

Amber only available.

					High Profile Rotator
PART NO.	VOLTAGE	AMPS	FPM	MOUNTING FEATURES	3 BOLT
5840A	12	5.2	160	3 BOLT MOUNT	
5850A	12	5.2	160	DESIGNED TO FIT DIN POLE MOUNT DIN #72591 (ORDER SEPARATELY)	POLE 

 					5800 Series Replacement Parts	
Bulb	Lenses				DIN Poles	
PART NO.	PROFILE	AMBER	BLUE	RED	L	T
R5812BH	LOW	R5810LA	R5810LB	R5810LR	A5850LB	A5850TB
	HIGH	R5840LA	–	–		

Use with 5810 and 5850
(DIN #72591)



5700 Series SAE Class I Rotator

5715A



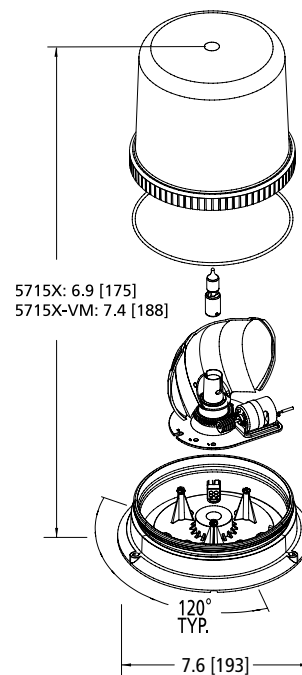
Oversized beacon design provides a solution for applications where a larger beacon shape is desirable. Features ECCO's heavy-duty gear drive rotator.

Features

- Twist-on lens allows easy bulb replacement.
- Self-lubricating heavy duty motor and gear assembly.
- Warranty: Rotator = 2 years / Bulb = 90 days
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- AMECA certified to SAE J845 Class I (A, B, C & R).
- California Title 13 (A, B & R).



Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

Rotator



3 BOLT FLANGE/1" PIPE	PART NO.	VOLTAGE	AMPS	FPM	MOUNTING FEATURES
	5715X	12	4.4	135	3 INTEGRAL MOUNTING OPTIONS: • 3 bolt internal • 3 bolt external • 1" pipe
VACUUM MAGNET 	5715X-VM	12	4.4	135	FACTORY INSTALLED VACUUM MAGNET WITH 17' STRAIGHT CABLE & CIGARETTE PLUG

5700 Series Replacement Parts



Lenses					Bulb	
AMBER	BLUE	CLEAR	GREEN	RED	TYPE	PART NO.
R5700LA	R5700LB	R5700LC	R5700LG	R5700LR	12V	R5012BH



A6400MB



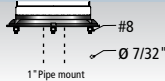
A6400MBP

ECCO's diverse line of beacons offers a wide range of base types and mounting options to suit a variety of applications. Choose from bolted, pipe, J-Bolt, pole and magnetic versions, aluminum or plastic bases. In addition our convenient mirror bracket offers a fast permanent mounting with no holes required. (6200 / 6400 / 6500 & 7400 Series only)

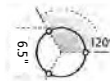
PART NO.	DESCRIPTION	USED WITH
A6400MB	1" Pipe Mirror Bracket	6500, 7400 Series
A6400MBP	Mirror Bracket Adapter Plate	6200, 6400 Series (use with A6400MB)

Beacon Mounting Guide

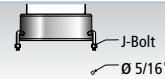
6500, 6600, 6700, 6900, 7100, 7400, 7600, 7900 Series



3 Bolt - 3 x 7/32" holes required (optional 4th wiring hole) Secure with #8 hardware, Pipe - 1" NPT thread

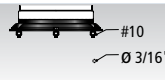


6500 J-Bolt



J Bolt - 2 x 5/16" holes required (plus 3rd wiring hole) Secure with J-Bolts. Accessories available for 1" & 3/4" NPT pipe mount, magnet or flush mount.

6400 / 6460



3 Bolt - 3 x 3/16" holes required (optional 4th wiring hole) Secure with #10 hardware



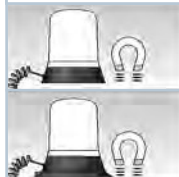
6200 / 6260



2 Bolt - 2 x 7/32" holes required (plus 3rd wiring hole) Secure with #8 hardware, Pipe - 1/2" NPT thread



MAGNETIC MOUNTS

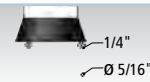


DO NOT FIT BEACON TO ANY ICE COVERED SURFACE
 · Always attach to clean, dry, smooth, non-porous, ferrous surface
 · Check beacon is secure BEFORE driving vehicle
 · Use tabs to release vacuum

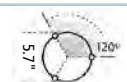
5800 Series



1 Bolt - Rubber Base
 1 x 9/16" hole required
 Secure with 1/2" hardware

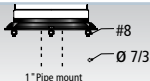


3 Bolt
 3 x 5/16" (plus 4th wiring hole)
 Secure with 1/4" hardware



Pole Fixing
 DIN#72591 accepts T or L fixing bracket

5700 Series



3 Bolt
 3 x 7/32" holes required (plus 4th wiring hole)
 #8 hardware, Pipe - 1" NPT thread



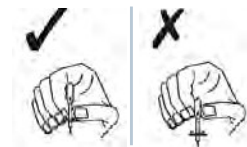
BEACON MOUNTING

Always mount beacons to the vehicle so the base is parallel to the ground as shown.



BULB / TUBE HANDLING

NEVER hold bulb or tube by the glass



BEACON BULB / TUBE GUIDE

R6501FT	R6410FT	R6200FT	R5812BH	R5012BH
6900 / 6700 / 6600 / 6500, 6500 J-Bolt / 6000 Series	6410	6200 Series	5800 Series	5700 Series

ECCO®'S LINE OF LIGHTBARS & MINIBARS



10 Series



15 Series



StreetLazer®



20 Series



30 Series



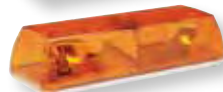
60 Series



EVOLUTION®



70 Series



5135/5150/5180 Series



5315/5350 Series



5280 Series



5000 Series



ECCO® - Leading in Lighting

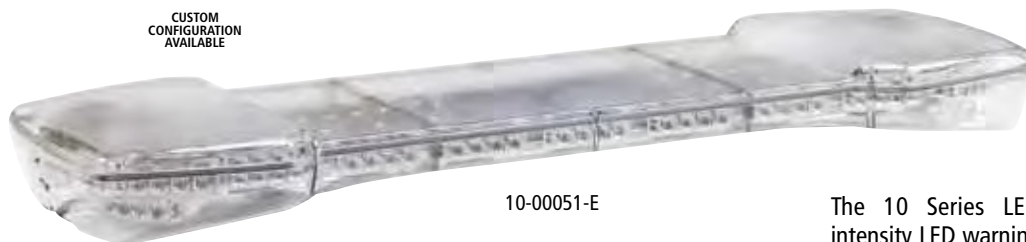
ECCO offers an extensive range of both minibars and full size lightbars, all manufactured with ECCO quality, delivered at ECCO speed and backed by ECCO customer service. Whatever your particular requirements, ECCO is sure to have the right product to suit your application and your budget.



Custom Lightbar Configuration

The lightbar configurations depicted in this catalog are only a small sample of our most popular models from the hundreds we have on file. Should you have a specific requirement that doesn't feature in this catalog you can always call us for additional specifications from our database. Alternatively ECCO offers a quick turnaround custom lightbar service enabling you to specify the exact components needed for your particular application. This service is available on 10, 15, 20, 30, 60 and 70 Series lightbars ensuring that whatever your need may be, ECCO can provide the solution. Check for the availability of custom configuration on the following pages, and call ECCO Customer Service at 1-800-635-5900 to order copies of our Faxback Lightbar Specifier or simply refer to the back of your ECCO price list.





10 Series LED Lightbar

Symbols / Features Guide

LED - ECCO's unique LED module uses four 1-watt LEDs and advanced optics to create a wide-angle beam pattern with industry leading light output. Quad flash (80FPM).

LED Corner Cluster - Utilizes 3 separate LED modules mounted at 30° to provide enhanced warning to the sides of the vehicle.

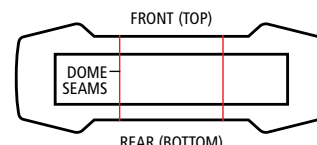
LED Safety Director™ - Built in to the 10 Series primary warning LEDs, when activated the rear LED modules are controlled via the touch-pad, all other modules maintain primary flash patterns. Features 7 flash patterns and hi/lo intensity control. Number of lighthead dependent on configuration (amber).

Cleversector™ - Pair of unique multifunction light modules can be used as takedown lights, an oscillating intersection clearing light, worklight and alley light (forward facing).



Back lit, rubber key touch-pad provides finger tip control of built in Safety Director™ (included with safety director models).

Chassis Diagram Key



H = 2" / 53 mm (center) W = 12" / 305mm

Warranty: Lightbar = 2 years / Electronic components = 5 years

Temperature Range: -22°F to +122°F (-30°C to +50°C)

47" / 1.2m									
PART NO.	VOLTS	COLOR	LED CONFIGURATION			AUX	AMPS	FPM	CHASSIS
			CORNER	FRONT	REAR				
10-00047-E	12	ILLUMINATES AMBER	12	2	5		3.8	80	
10-00051-E	12	ILLUMINATES AMBER	6	2	5		13.4	80	

52" / 1.33m									
PART NO.	VOLTS	COLOR	LED CONFIGURATION			AUX	AMPS	FPM	CHASSIS
			CORNER	FRONT	REAR				
10-00048-E	12	ILLUMINATES AMBER	12	2	6		4.0	80	
10-00049-E	12	ILLUMINATES AMBER	6	2	6		13.6	80	

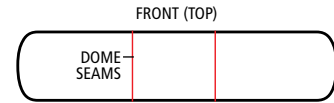
15 Series - *StreetLazer*® LED Lightbar



15-00039-E

CUSTOM
CONFIGURATION
AVAILABLE

Chassis Diagram Key



H = 2" / 53mm W = 12" / 305mm

The 15 Series lightbar offers the long, maintenance free service life of LED technology along with maximum light output due to the unique optics of ECCO's LED modules. Each LED module features four 1-watt LEDs providing high intensity warning with the benefit of low amp draw. The stylish, low profile lightbar features an aluminum base and clear weather-proof polycarbonate housing along with an encapsulated power supply to provide strength, durability and protection against the environment.



Back lit, rubber key touch-pad provides finger tip control of built in Safety Director™ (included with safety director models).

Symbols / Features Guide

LED LED - ECCO's unique LED module uses advanced optics to create a wide-angle beam pattern with industry leading light output. Quad flash (80FPM).

LED LED Safety Director™ - Built in to the 15 Series primary warning LEDs, when activated the rear LED modules are controlled via the touch-pad, all other modules maintain primary flash patterns. Features 7 flash patterns and hi/lo intensity control (number of lightheads dependent on configuration).

Warranty: Lightbar = 2 years / Electronic components = 5 years

Temperature Range: -22°F to +122°F (-30°C to +50°C)

39" / 0.98m - StreetLazer®



CHASSIS	PART NO.	VOLTS	COLOR	LED CONFIGURATION				AMPS	FPM
				CORNER	FRONT	REAR	LED		
	15-00035-E	12	ILLUMINATES AMBER	4	2	2		1.6	80

49" / 1.24m - StreetLazer®



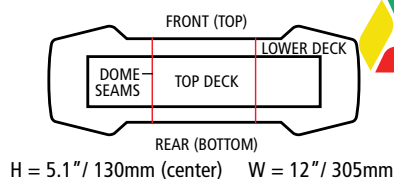
CHASSIS	PART NO.	VOLTS	COLOR	LED CONFIGURATION				AMPS	FPM
				CORNER	FRONT	REAR	LED		
	15-00036-E	12	ILLUMINATES AMBER	4	2	2		1.6	80
	15-00037-E	12	ILLUMINATES AMBER	4	4	8		3.2	80

54" / 1.37m - StreetLazer®



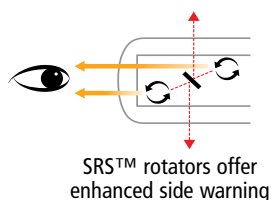
CHASSIS	PART NO.	VOLTS	COLOR	LED CONFIGURATION				AMPS	FPM
				CORNER	FRONT	REAR	LED		
	15-00038-E	12	ILLUMINATES AMBER	4	5	5		2.9	80
	15-00039-E	12	ILLUMINATES AMBER	4	4	7		3.0	80

Chassis Diagram Key

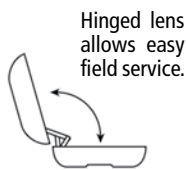


www.jomonindonesia.com

20 Series Twin Deck Lightbar



SRS™ rotators offer enhanced side warning



Hinged lens allows easy field service.



20-00042-E

The unique shape of the 20 Series lightbar ensures a smart, roof hugging fit for any car or pick-up truck application. The twin deck design features an aluminum base and hinged polycarbonate lens for durability and ease of maintenance, along with offering additional lighting options including an integral Safety Director™ and the unique Cleversector™ on the lower deck.



Back lit, rubber key touch-pad provides finger tip control of built in Safety Director™ (included with safety director models).

Symbols / Features Guide

TOP DECK:



Rotator - SRS™ Staggered Rotator System provides visibility of both rotators at each end of the lightbar. Features smooth operation, gear driven rotators. (55W Bayonet, RPM: Outboard = 150, Inboard = 90)



Mirrors - Diagonal mirrors reflect light to front and rear without obstructing visibility of rotators at the end of the lightbar.

LOWER DECK:



Halogen Safety Director™ - Controlled via touch-pad, multiple flash patterns available (35W). Number of lighthead dependent on configuration. (Amber)



Cleversector™ - Pair of unique multifunction light modules can be used as takedown lights, an oscillating intersection clearing light, worklight and alley light (forward facing).

Warranty: Lightbar = 2 years / Bulb = 90 days

Temperature Range: -22°F to +122°F (-30°C to +50°C)

47" / 1.2m									
PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AUXILIARY		AMPS	FPM	CHASSIS
20-00177-E	12						30.8	730	
20-00042-E	12						45.9	730	

52" / 1.33m									
PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AUXILIARY		AMPS	FPM	CHASSIS
20-00178-E	12						30.8	730	
20-00044-E	12						48.9	730	

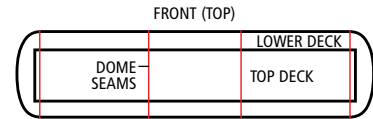
30 Series Twin Deck Lightbar



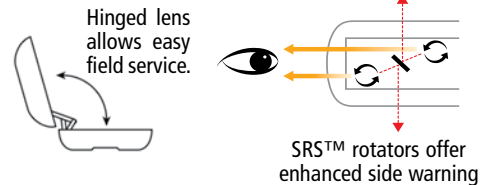
30-00110-E

CUSTOM
CONFIGURATION
AVAILABLE

Chassis Diagram Key



H = 5.1" / 130mm W = 12" / 305mm



Back lit, rubber key touch-pad provides finger tip control of built in Safety Director™ (included with safety director models).

The twin deck design of the 30 Series lightbar maximizes lighting options allowing unobstructed light output of the primary warning lights on the upper deck and offering various auxiliary lighting options on the lower deck. Featuring an aluminum base and hinged polycarbonate lens for durability and ease of maintenance, the 30 Series is available in a wide range of standard configurations.

Symbols / Features Guide

TOP DECK:

- Rotator** - SRS™ Staggered Rotator System provides visibility of both rotators at each end of the lightbar. Features smooth operation, gear driven rotators. (55W Bayonet, RPM: Outboard = 150, Inboard = 90)
- Linear Strobe** - V configuration, quad flash linear strobes provide high intensity 360° warning with no 'sun washout' (Quad flash 80FPM - fitted in fours, positioned at 45° to each corner).
- Mirrors** - Diagonal mirrors reflect light to front and rear without obstructing visibility of rotators at the end of the lightbar.
- Stop, Tail, Turn Lights** - Pair of rear facing high-level auxiliary signal lights
- Worklights** - Pair of rear facing 55W adjustable halogen worklights.

LOWER DECK:

- Alternating Halogens** - Front or rear (F/R) facing small amber alternating directional halogen lights, fitted in pairs (35W).
- Alternating LEDs** - Front or rear (F/R) facing amber alternating LEDs, fitted in pairs.
- Halogen Safety Director™** - Controlled via touch-pad, number of light heads dependent on configuration, multiple flash patterns available (Amber 35W).

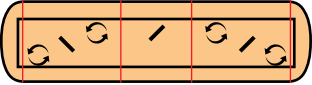
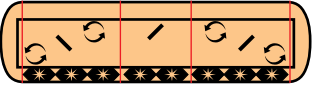
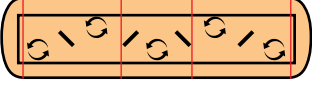
Warranty: Lightbar = 2 years / Bulb = 90 days / Flashtube = 6 months

Temperature Range: -22°F to +122°F (-30°C to +50°C)

49" / 1.24m

49" / 1.24m



CHASSIS	PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY				AMPS	FPM
												
	30-00012-E	12		4		3					20	730
	30-00053-E	12		4		3					44	730
	30-00052-E	12		5		4					25	820
	30-00054-E	12		5		4					49	1060
	30-00058-E	12			4						29	144

(continued) 30 Series

54" / 1.37m											
PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY			AMPS	FPM	CHASSIS
30-00081-E	12		4		3	2/0			36.6	840	
30-00082-E	12		4		3	2/2			39.6	840	
30-00079-E	12		5		4				25	820	

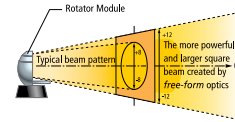
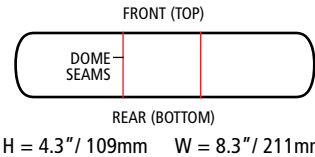
59" / 1.5m											
PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY			AMPS	FPM	CHASSIS
30-00116-E	12		4		3				37.6	730	
30-00106-E	12		4		3	0/2			40.6	730	
30-00107-E	12		4		3	2/0			40.6	840	
30-00110-E	12		4		3				61.6	730	



60 Series - *EVOLUTION*[®] SAE Class I - Single Deck Lightbar

Chassis Diagram Key

CUSTOM
CONFIGURATION
AVAILABLE



ECCO's 60 Series lightbars are available in a wide variety of configurations offering a high level of functionality in a compact, low profile and aerodynamic housing. 60 Series lightbars feature ECCO's low noise, belt-drive rotator incorporating free-form reflectors for a larger, more powerful beam pattern.

Symbols / Features Guide

	Rotator - In-line belt driven rotator modules provide smooth, quiet operation. Reflectors incorporate free-form optics for enhanced light output and beam spread. (55W H1 bulb / 160 FPM)		Alternating Halogens - Front or rear (F/R) facing large amber alternating directional halogen lights, fitted in pairs (50W).
	360° Strobe - Double/Quad flash 360° fresnel strobes with helical flashtubes, powered by heavy-duty ECCO power supplies. (User selectable: 70 Double / 65 Quad FPM & Hi/Lo intensity)		Stop, Tail, Turn Lights - Pair of rear facing high-level auxiliary signal lights
	Directional Strobe - Double/Quad flash front and rear large directional strobes with helical flashtubes. Powered by ECCO power supplies, fitted in fours. (User selectable: 70 Double / 65 Quad FPM & Hi/Lo intensity).		Worklights - Pair of rear facing 55W adjustable halogen worklights
	Mirrors - Stainless steel V and diamond mirrors (dependent on configuration).		DOT Lights - Maintenance free LED DOT strip

Warranty: Lightbar = 2 years / Bulb = 90 days / Flashtube = 6 months
Belt = ECCOLIFE[™]

Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals: SAE J845/1318 as listed, CE

36" / 0.91m - Evolution[®]



CHASSIS	PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AUXILIARY	AMPS	FPM
	6363001	12	Amber	3	2		15.6	1120
	6363003	12	Amber	2	2		3.9	260

48" / 1.2m - Evolution[®]



CHASSIS	PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AUXILIARY	AMPS	FPM
	6483001	12	Amber	2	2		10.2	640
	6483002	12	Amber	4	2		20.4	1280
	6483003	12	Amber	5	2	2	25.5	1760
	6483011	12	Amber	4	2		7.8	520

(continued) 60 Series

Evolution® - 54" / 1.37m												
PART NO.	VOLTS	COLOR	WARNING		MIRRORS		AUXILIARY			AMPS	FPM	CHASSIS
6543050	12		2			2		2/0				
6545001	12		3			4						
6543002	12		4				2					
6543020	12		4			4						
6543018	12		4			4						
6543001	12		5			2	2					

Evolution® - 60" / 1.5m												
PART NO.	VOLTS	COLOR	WARNING		MIRRORS		AUXILIARY			AMPS	FPM	CHASSIS
6603003	12		2		2/2	2		2/0				
6603060	12		2		2/2	2		2/0				
6605005	12		3			4		2/0				
6605003	12		4			4		2/0				
6605004	12		4			4		2/2				
6605055	12		4			4		2/2				

70 Series

SAE Class I

Single Deck Lightbar

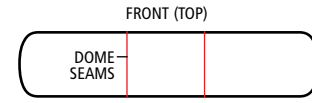


5483004

70 Series lightbars offer an economical yet highly effective lighting solution featuring ECCO's self-lubricating gear-drive rotator. Featuring a rugged aluminum base and polycarbonate lens the 70 Series is available in 5 standard configurations. If multiple colors are a requirement, clear dome versions with amber, blue and red filters are available.

CUSTOM
CONFIGURATION
AVAILABLE

Chassis Diagram Key



H = 5.8" / 147mm W = 8.3" / 211mm

Symbols / Features Guide



Rotator - Self-lubricating motor gear assembly, can accept colored filters if required (50W/100FPM).



Mirrors - Stainless steel V and diamond mirrors (dependent on configuration).

Warranty: Lightbar = 2 years / Bulb = 90 days

Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals: SAE J845 Class 1

36" / 0.91m

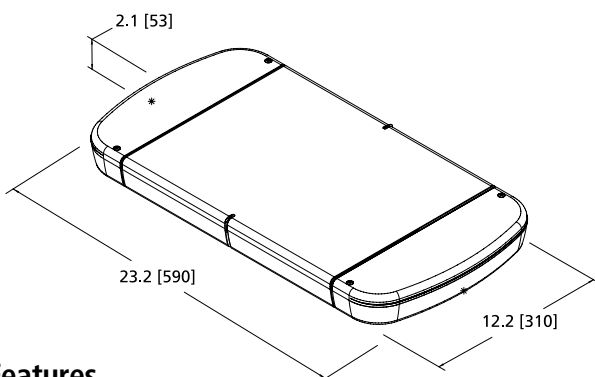


CHASSIS	PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AMPS	FPM
	5362001	12		2	2	8.8	400
	5363001	12		3	2	13.2	700
	5362002	12		4	2	17.6	800

48" / 1.2m



CHASSIS	PART NO.	VOLTS	COLOR	WARNING	MIRRORS	AMPS	FPM
	5483001	12		2	2	8.8	400
	5483004	12		4	3	17.6	1000



StreetLazer® - 15 Series 23" LED Minibar

CUSTOM
CONFIGURATION
AVAILABLE



Features

- Coated aluminum base and polycarbonate lens.
- LEDs rated to 100,000 hours operation.
- Choice of two user-selectable flash patterns (quad flash).
- Warranty: Lightbar = 2 years / Electronic components = 5 years
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

The Streetlazer® minibar offers a compact high intensity LED lighting solution. ECCO's unique LED modules feature four 1-watt LEDs and advanced optics creating a wide-angle beam with increased vertical light dispersion. The Streetlazer® offers low amp draw and features an encapsulated power supply for increased protection against the environment.

StreetLazer® - 23" / 0.59m								
PART NO.	VOLTS	COLOR	LED CONFIGURATION			AMPS	FPM	CHASSIS
			CORNER	FRONT	REAR			
15-00011-E	12	ILLUMINATES AMBER	4			0.8	80	PERMANENT MOUNT
15-00013-E	12	ILLUMINATES AMBER	4	1	1	1.2	80	PERMANENT MOUNT
15-00015-E	12	ILLUMINATES AMBER	4	2	2	1.6	80	PERMANENT MOUNT
15-00019-E	12	ILLUMINATES AMBER	4	3	3	2.0	80	PERMANENT MOUNT

15 Series Replacement Parts



Lens Clip	
PART NO.	
R109-927	



LED Modules	
FRONT/REAR	CORNER
R109-924X	R159-938X

Replace X in part number with desired color:
A – amber R – blue W – white R – red



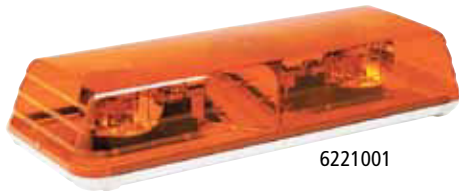

Lenses		
	END	CENTER
UPPER	R159-901X	R109-906X
LOWER	R309-902C	R209-907C

Replace X in part number with desired color:
A = amber, B = blue, W = white, R = red

Replace X in part number with desired color:
A = amber, B = blue, C = clear, R = red



60 Series - *EVOLUTION*[®] SAE Class I 22" Rotating Minibar



6221001

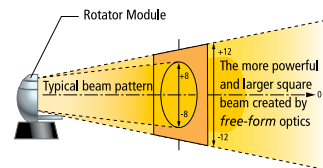
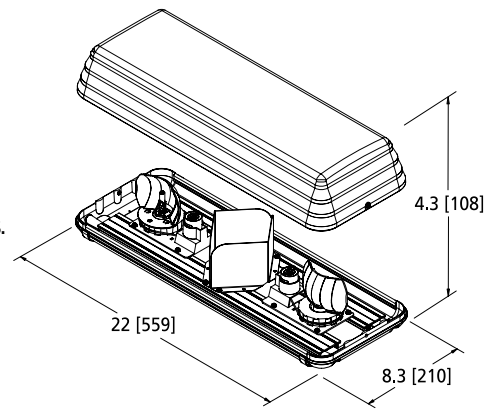
Featuring ECCO's low noise, belt-drive rotator incorporating free-form reflectors. This compact 22" minibar is a high performance yet economical lighting solution.

Features

- ▶ Coated aluminum base and low profile, ribbed polycarbonate lens.
- ▶ Belt driven rotator assembly with free-form optical reflector.
- ▶ Warranty: Minibar = 2 years
Belt = ECCOLIFE[®]
Bulb = 90 days
- ▶ Temperature Range:
-22°F to +122°F
(-30°C to +50°C)

Approvals

- ▶ SAE J845 Class I (6221001 only)
- ▶ CE



22" / 0.57m - Evolution[®]



CHASSIS		PART NO.	VOLTS	COLOR	AMPS	FPM
PERMANENT MOUNT		6221001	12		10.5	640
PERMANENT MOUNT		6221002				
PERMANENT MOUNT		6221003				
PERMANENT MOUNT		6221004				

ECCO[®] Trademarks & Patents



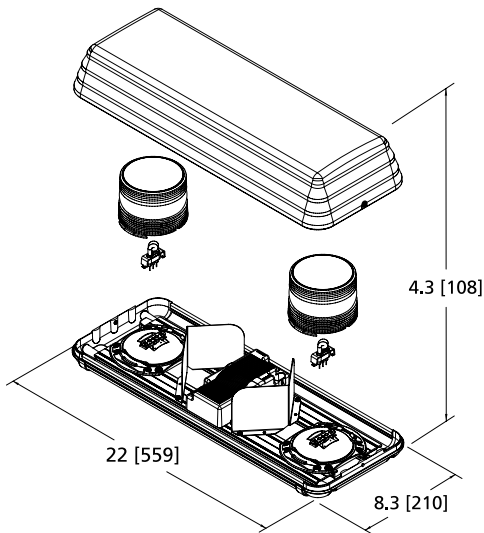
The above trademarks, trade dress and product designs are unique to ECCO. They are synonymous with innovation, product quality and conformance to industry standards and are the sole and exclusive property of ECCO. All rights reserved.

U.S. Trademark Registrations (Lighting): 2,576,680; 2,868,744; 2,449,869; 1,830,225; 2,868,763; 2,868,762; 2,866,295; 2,896,779; 2,969,210; 2,975,174; 2,975,175; 3,104,543

U.S. Patents (Lighting): 6,292,097; 6,720,883; 7,023,353 Other patents pending

For more information contact ECCO Customer Service.

EVOLUTION® - 60 Series SAE Class II 22" Strobe Minibar



Features

- ▶ Coated aluminum base and low profile, ribbed polycarbonate lens.
- ▶ High intensity double/quad flash warning signal.
- ▶ Warranty: Minibar = 2 years
Flashtube = 6 months
- ▶ Temperature Range:
-22°F to +122°F
(-30°C to +50°C)

Approvals

- ▶ SAE J1318 Class II (6221005 only)
- ▶ CE, e



Double or Quad flash operation powered by ECCO's heavy-duty power supplies, this compact 22" unit also features hi/lo intensity control.

Evolution® - 22" / 0.57m								
PART NO.	VOLTS	COLOR*		AMPS	JOULES	FPM		CHASSIS
		DOME	LENS			DOUBLE	QUAD	
6221005	12-24		AMBER / AMBER	3.8	7-13 Double or 11-15 Quad	70	65	PERMANENT MOUNT
6221006			CLEAR / CLEAR					PERMANENT MOUNT
6221007			AMBER / AMBER					PERMANENT MOUNT
6221009			AMBER / CLEAR					PERMANENT MOUNT

Double/Quad Flash: Double or Quad Flash, hi/lo intensity user selected at time of installation or manually switchable (switch not supplied).

*Additional Dome/Lens color configurations available.

60 Series Minibar Replacement Parts



Flashtube

PART NO.
R6501FT



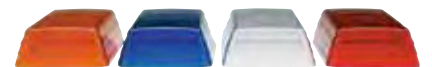
Lenses

AMBER	BLUE	CLEAR	RED
R5150LA	R5150LB	R5150LC	R5150LR



Bulb

PART NO.
R5812BH



Domes

AMBER	BLUE	CLEAR	RED
R5101LA	R5101LB	R5101LC	R5101LR

70 Series

SAE Class I - 22" Rotating SAE Class II - 22" Strobe



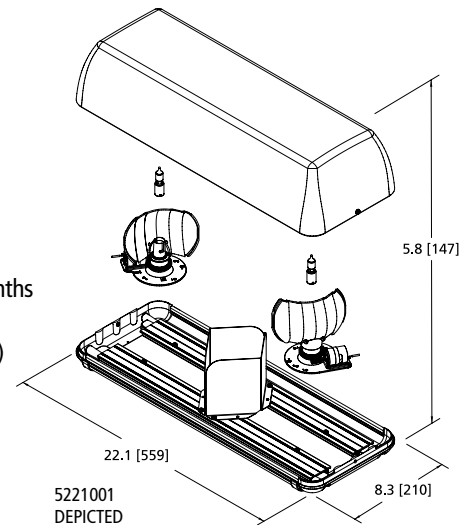
This economical minibar provides a robust, high visibility warning solution featuring ECCO's heavy-duty gear driven rotator or dual alternating strobes.

Features

- ▶ Coated aluminum base and polycarbonate lens.
- ▶ Self-lubricating motor and gear rotator assembly (rotating).
- ▶ Reverse polarity, voltage spike and surge protected (strobe).
- ▶ Warranty: Minibar = 2 years
Bulb (rotating) = 90 days
Flashtube (strobe) = 6 months
- ▶ Temperature Range: -22°F to +122°F
(-30°C to +50°C)

Approvals

- ▶ SAE J845 Class I (except 5221003)
- ▶ SAE J1318 Class II (AAA & CAA only)
- ▶ CE



22" / 0.57m - Rotating



CHASSIS	PART NO.	VOLTS	COLOR*		AMPS	FPM
			DOME	FILTER		
PERMANENT MOUNT	5221001	12		CLEAR / CLEAR	8.6	400
PERMANENT MOUNT	5221002			CLEAR / CLEAR		
PERMANENT MOUNT	5221003			CLEAR / CLEAR		
PERMANENT MOUNT	5221004			CLEAR / CLEAR		
PERMANENT MOUNT	5221005			AMBER / AMBER		

22" / 0.57m - Strobe



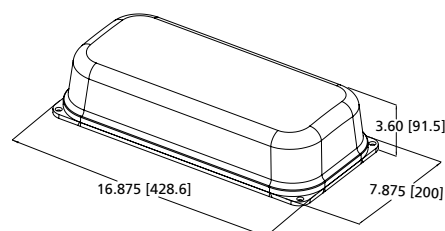
CHASSIS	PART NO.	VOLTS	COLOR**		AMPS	JOULES	FPM	
			DOME	LENS			DOUBLE	QUAD
PERMANENT MOUNT	5450AAA	12-48		AMBER / AMBER	3.0	7 Double or 10 Quad	80	65
PERMANENT MOUNT	5450ACC			CLEAR / CLEAR				
PERMANENT MOUNT	5450CAA			AMBER / AMBER				
PERMANENT MOUNT	5450CAC			AMBER / CLEAR				

*Additional dome / filter color configuration available. **Additional Dome/Lens color configurations available.

Double/Quad Flash: Double or Quad Flash, hi/lo intensity user selected at time of installation or manually switchable (switch not supplied).

Replacement Parts

Flashtube	Bulb	Lenses				Domes			
PART NO.	PART NO.	AMBER	BLUE	CLEAR	RED	AMBER	BLUE	CLEAR	RED
R6501FT	R5812BH	R6050LA	R6050LB	R6050LC	R6050LR	R5101LA	R5101LB	R5101LC	R5101LR



Features

- Permanent mount or magnet mount (with 12' cord and switched cigarette plug)
- Configurations:
8 head (2 end, 3 forward and 3 rear facing),
10 head (2 end, 4 forward and 4 rear facing)
- 7 flash patterns, selectable via trigger wire (push-button on magnet mount version)
- Warranty: 2 year
- Temperature Range: -22F to +122F (-30C to +50C)

5000 Series 17" LED Minibar



Amber illumination only available

This budget conscious LED minibar features 7 flash patterns and offers a choice of either 8 or 10 LED modules, each comprising 40 LEDs. The 5000 Series provides many benefits including its compact size, available magnet mounting option and multiple flash patterns, as well as all the usual LED benefits of low amp draw and a long, maintenance-free service life. The 5000 Series LED minibar provides a convenient, high output LED lighting solution in a compact and cost-effective package.

LED®						17" / 0.45m
PART NO.	HEADS	VOLTS	COLOR*		AMPS	CHASSIS
			DOME	ILLUMINATION		
5008A	8	12		AMBER	2.9	PERMANENT MOUNT
5010A	10				3.2	
5008A-MG	8			AMBER	2.9	MAGNET
5010A-MG	10				3.2	

Multi Flash (7): Flash pattern selection available via switch wire at installation on permanent mount models, via push-button on magnet mount models.

Multi Flash (7) Pattern Guide

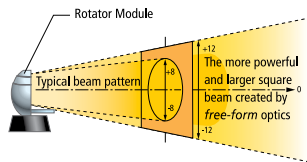
NO.	PATTERN	DESCRIPTION
1	Random	Randomly selects from patterns 2 through 7 and runs each pattern 5 times.
2	Double Flash	2 flash bursts. 500 double flashes per minute.
3	Quad Flash	4 flash bursts. 160 quad flashes per minute.
4	Single Flash	1 flash burst. 750 flashes per minute.
5	Fast Single Flash	1 flash burst. 1200 flashes per minute.
6	Deci Flash	10 flash bursts. All LEDs firing. 170 deci flashes per minute.
7	Single/Quad Flash	Single flash and quad flash combination flash pattern.

5135 Series SAE Class I 15" Rotating Minibar



5135A

This compact 15" minibar features ECCO's low noise, belt-drive rotator incorporating free-form reflectors.

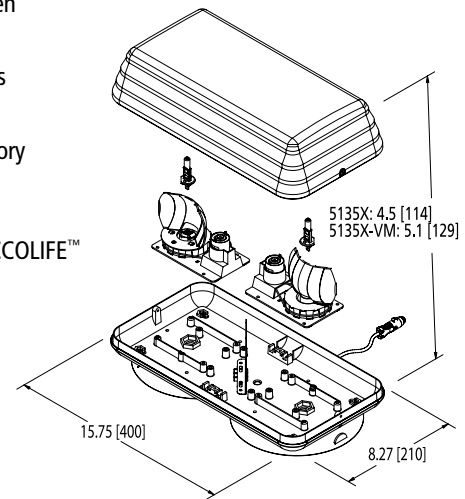


Features

- Low profile, high performance belt-driven minibar.
- Unique free-form optics rotator modules provide high intensity light output.
- Vacuum magnet version features 2 factory fitted vacuum magnets and 17' straight cigarette cord with plug.
- Warranty: Minibar = 2 years / Belt = ECCOLIFE™ Bulb = 90 days
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

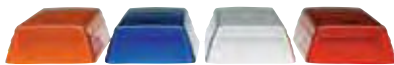
- SAE J845 Class I (A, B & R)
- CE, e
- IP Rating 54



Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

15" / 0.4m - Blaze® II  				
CHASSIS	PART NO.	VOLTAGE	AMPS	FPM
PERMANENT MOUNT 	5135X	12	10.5	480
VACUUM MAGNET 	5135X-VM	12	10.5	480

5135 Series Replacement Parts



Domes			
AMBER	BLUE	CLEAR	RED
R5100LA	R5100LB	R5100LC	R5100LR



Bulb
PART NO.
R5812BH





5150 Series SAE Class II 15" Strobe Minibar



5150A

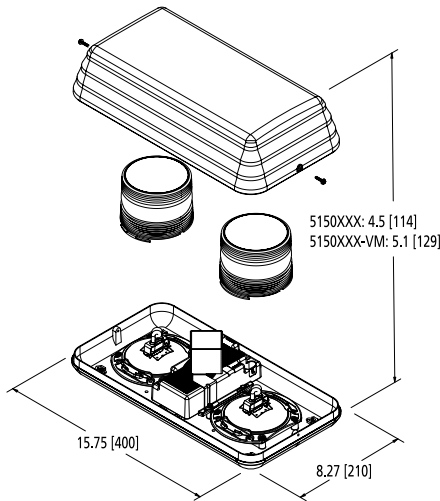
Driven by ECCO's ultra reliable power supply, this high performance aerodynamic 15" lightbar is feature packed with hi/lo intensity and Double/Quad flash functionality.

Features

- Compact, low profile and highly effective minibar.
- Super high intensity output driven by ECCO heavy duty power supply.
- Incorporates diamond mirror for increased secondary flash rate.
- Vacuum magnet version features 2 factory fitted vacuum magnets and 15' straight cigarette cord with plug.
- Reverse polarity, voltage spike and surge protected.
- Warranty: Minibar = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J1318 Class II (AAA versions only)
- CE, e, IP Rating 54



Blaze® II - 15" / 0.4m							
PART NO.	VOLTS	COLOR*		AMPS	JOULES	FPM	CHASSIS
		DOME	LENS				
5150AAA	12-24		AMBER / AMBER	3.8	7-13 Double or 11-15 Quad	70 Double or 65 Quad	PERMANENT MOUNT
5150ACC			CLEAR / CLEAR				
5150CAA			AMBER / AMBER				
5150CAC			AMBER / CLEAR				
5150AAA-VM	12-24		AMBER / AMBER	3.8	7-13	70 Double	VACUUM MAGNET
5150ACC-VM			CLEAR / CLEAR				
5150CAA-VM			AMBER / AMBER				
5150CAC-VM			AMBER / CLEAR				

Double/Quad Flash: Double or Quad Flash, hi/lo intensity user selected at time of installation or manually switchable (switch not supplied, permanent mount models only).

*Additional Dome/Lens color configurations available.

5150 Series Replacement Parts

Flashtube		Domes				Lenses			
PART NO.		AMBER	BLUE			AMBER	BLUE	CLEAR	RED
R6501FT		R5100LA	R5100LB			R5150LA	R5150LB	R5150LC	R5150LR
		CLEAR	RED						
		R5100LC	R5100LR						

5180 Series 15" LED Minibar



NEW

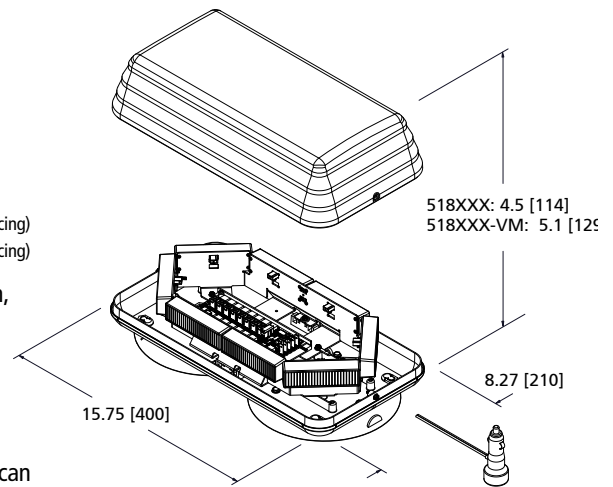


5188CA-VM

This versatile LED minibar offers many features and benefits including its compact size, available vacuum-magnet mounting option, multiple flash patterns and synchronization capability (permanent mount only). The Blaze™ II LED minibar is available in 6 or 8 head configurations, each featuring four high intensity 1-watt LEDs per head. Other major benefits include low amp draw and long, maintenance-free service life backed by a 5 year warranty. The Blaze™ II LED minibar provides a convenient, high performance LED lighting solution in a cost-effective package.

Features

- Compact, low profile, high intensity LED minibar.
- Configurations:
 - 6 head (4 corner, 1 forward and 1 rear facing)
 - 8 head (4 corner, 2 forward and 2 rear facing)
- Flash patterns: (vary by configuration, selectable via internal electronics)
 - Permanent Mount Models - 2 flash patterns
 - Vacuum-Magnet Models - 3 flash patterns
- Multiple permanent mount versions can be synchronized.
- Vacuum magnet versions feature 2 factory fitted vacuum magnets and 15' straight cigarette cord with switched plug.
- Warranty: 5 years (electronic components)
- Temperature Range: -22°F to +122°F (-30°C to +50°C)



Approvals

- CE, e

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Blaze® II - 15" / 0.4m



CHASSIS	PART NO.	HEADS	VOLTS	COLOR*		AMPS
				DOME	ILLUMINATION	
PERMANENT MOUNT 	5186A	6	12		AMBER	2.9
	5186CX				SPECIFY COLOR	
	5188A	8			AMBER	3.2
	5188CX				SPECIFY COLOR	
VACUUM MAGNET 	5186A-VM	6	12		AMBER	2.9
	5186CX-VM				SPECIFY COLOR	
	5188A-VM	8			AMBER	3.2
	5188CX-VM				SPECIFY COLOR	

Multi Flash: Flash patterns vary by configuration, selectable via internal electronics (flag terminals).

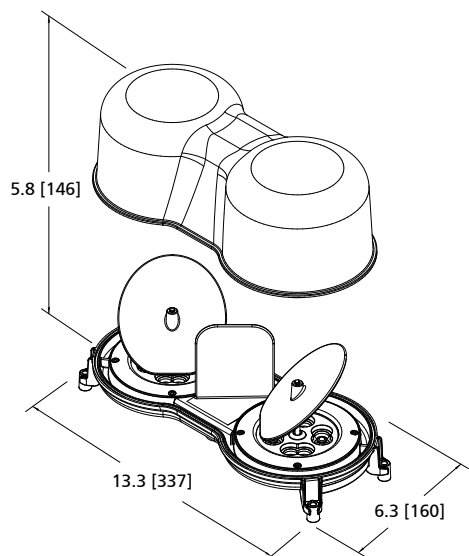
*Additional LED color combinations available.

5180 Series Replacement Parts



Domes

AMBER	CLEAR
R5100LA	R5100LC



Features

- LED Hybrid technology provides a high intensity rotating warning signal with no gears, brushes or bulbs to wear out.
- Polycarbonate lens features a UV hard coating to greatly reduce cracking, hazing, abrasion and fading.
- Warranty: 5 years
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J845 Class I (A, CBB & R)
- CE, e
- IP Rating 67

ROTOLED™ - 5280 Series SAE Class I 13" LED Hybrid Minibar



The 5280 Series RotoLED™ Minibar combines all the benefits of the latest LEDs with the unmistakable warning signal of a rotator, without compromising reliability. LED hybrid technology uses a brushless magnetic drive system to spin the reflector disk, reducing noise and eliminating the typical motor/gear drawbacks associated with conventional rotators. Each hybrid module also features eight 3-watt LEDs and TIR optic to provide SAE Class I light output. Additional benefits include an extended, service free life, low amp draw and a 5 year warranty.

RotoLED™ - 13" / 0.35m						
PART NO.	VOLTS	COLOR*		AMPS	FPM	CHASSIS
		DOME	ILLUMINATION			
5280A	12-24		AMBER / AMBER	2.6	360	 PERMANENT MOUNT
5280B			BLUE / BLUE			
5280G			GREEN / GREEN			
5280R			RED / RED			
5280CAA	12-24		AMBER / AMBER	2.6	360	 PERMANENT MOUNT
5280CAC			AMBER / CLEAR			
5280CBB			BLUE / BLUE			
5280CCC			CLEAR / CLEAR			
5280CGG			GREEN / GREEN			
5280CRB			RED / BLUE			
5280CRR			RED / RED			

5315 Series SAE Class I 15" Rotating Minibar



5315CAA

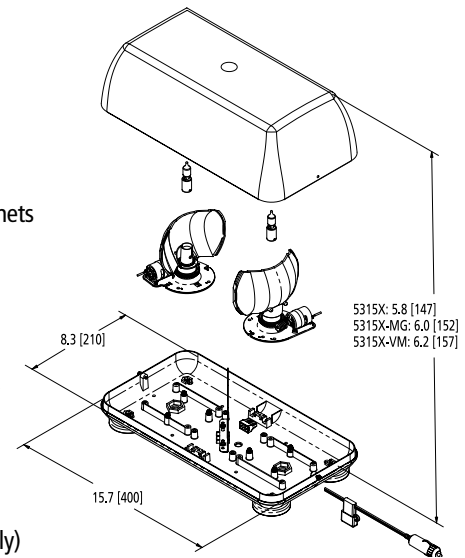
Featuring ECCO's heavy-duty gear drive rotator, this minibar is offered in a range of dome/filter color combinations.

Features

- Self-lubricating heavy duty motor and gear assemblies.
- Magnet version features 4 factory fitted magnets and 17' straight cigarette cord with plug.
- Vacuum magnet version features 2 factory fitted vacuum magnets and 17' straight cigarette cord with plug.
- Warranty: Minibar = 2 years / Bulb = 90 days
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- AMECA Certified to SAE J845 Class I (12V only)
(Clear dome with amber, clear and red filters)
(Amber, blue, clear and red domes with clear filters)
- California Title 13 (5315 A, B & R)



15" / 0.4m						
CHASSIS	PART NO.	VOLTAGE	COLOR*		AMPS	FPM
			DOMES	FILTER		
PERMANENT MOUNT 	5315A	12		CLEAR / CLEAR	8.6	300
	5325A	24			4.1	
	5315CAA	12		AMBER / AMBER	8.6	
MAGNET 	5315A-MG	12		CLEAR / CLEAR	8.6	300
VACUUM MAGNET 	5315A-VM	12		CLEAR / CLEAR	8.6	300
	5315CAA-VM			AMBER / AMBER		

*Other dome / filter color configurations available.

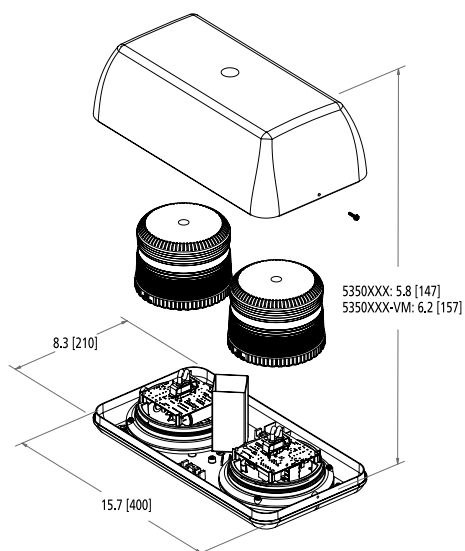
5315 Series Replacement Parts



Domes	
AMBER	BLUE
R5300LA	R5300LB
CLEAR	RED
R5300LC	R5300LR

Filters		
RED	BLUE	AMBER
A5000FR	A5000FB	A5000FA

Bulb	
VOLTS	PART NO.
12V	R5012BH
24V	R5024BH



Features

- Vacuum magnet version features 2 factory fitted vacuum magnets and 17' straight cigarette cord with plug.
- Reverse polarity, voltage spike and surge protected.
- Warranty: Minibar = 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J1318 Class II (CAA versions only)
- CE

5350 Series SAE Class II 15" Strobe Minibar



5350CAA

ECCO reliability in a compact and economical lightbar. Dual alternating strobes and easy mounting options offer the flexibility and cost effectiveness of a single strobe with the performance of a full size lightbar.

15" / 0.4m						
PART NO.	VOLTAGE	COLOR*		AMPS	JOULES	FPM
		DOME	FILTER			
5350AAA	12-48		AMBER / AMBER	3.0	7 Double or 10 Quad	80 Double or 65 Quad
5350ACC			CLEAR / CLEAR			
5350CAA			AMBER / AMBER			
5350CAC			AMBER / CLEAR			
5350AAA-VM	12-48		AMBER / AMBER	3.0	7	80 Double
5350ACC-VM			CLEAR / CLEAR			
5350CAA-VM			AMBER / AMBER			
5350CAC-VM			AMBER / CLEAR			

Double/Quad Flash: Double or Quad Flash mode is user selected at time of installation (permanent mount models only).

*Additional Dome/Lens color configurations available.

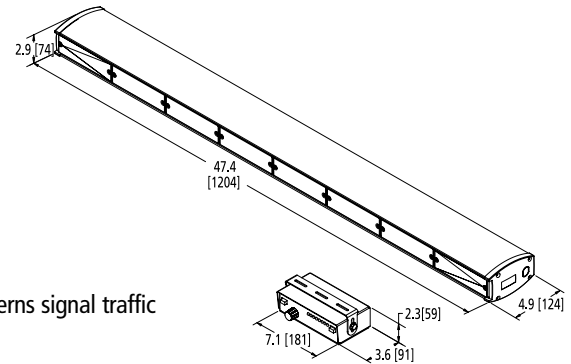


5350 Series Replacement Parts



Flashtube		Lenses					Domes	
PART NO.		AMBER	BLUE	CLEAR	GREEN	RED	AMBER	BLUE
R6501FT	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR		R5300LA	R5300LB
							CLEAR	RED
							R5300LC	R5300LR

3000 Series SAE Class II Safety Director™ Bar



Incandescent or halogen directional warning power with a choice of flash patterns and user-friendly control, the Safety Director™ is the ideal product to steer traffic away from work zones and other dangerous situations.

Features

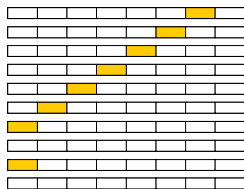
- ▶ 8 user selectable flash patterns signal traffic to avoid hazards.
- ▶ Hi/Lo intensity switch.
- ▶ Wig Wag and Alternating flash patterns are certified to California Title 13 (3015, 3035, 3055).
- ▶ Warranty: 2 years / Bulb = 90 days
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

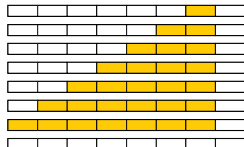
- ▶ SAE J845 Class II (halogen only)

Flash Patterns

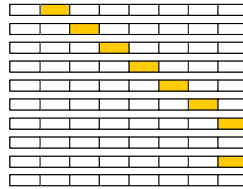
LEFT ARROW (L)



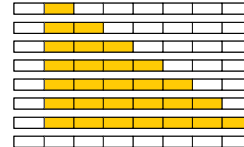
LEFT ARROW SOLID (LS)



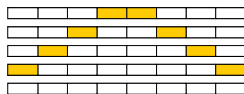
RIGHT ARROW (R)



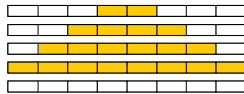
RIGHT ARROW SOLID (RS)



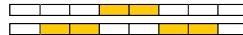
CENTER OUT (C)



CENTER OUT SOLID (CS)



WIG WAG (WW)



SINGLE FLASH (AF)



Safety Director™ System



LIGHT SOURCE	PART NO.	CABLE LENGTH	VOLTAGE	MAX AMPS	SAE
HALOGEN	3015H	15'	12	18	
	3035H	35'	12	18	
	3055H	55'	12	18	
INCANDESCENT	3015	15'	12	18	
	3035	35'	12	18	
	3055	55'	12	18	

3300 Series SAE Class I LED Safety Director™ Bar

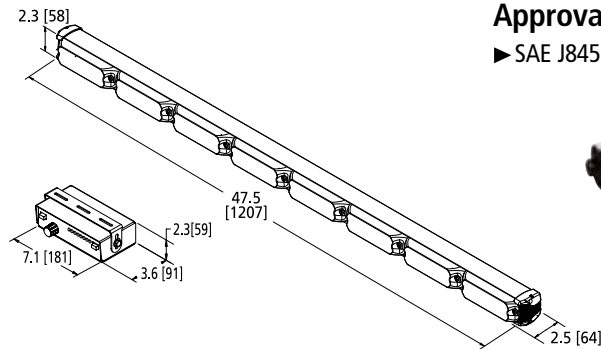
Features

- ▶ Extruded Aluminum housing and clear polycarbonate LED module (Illuminates amber).
- ▶ Epoxy sealed electronics for environmental protection.
- ▶ Controller features 15 amp auxiliary switch.

- ▶ Wig Wag and Alternating flash patterns are certified to California Title 13.
- ▶ Warranty: 2 years
- ▶ Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

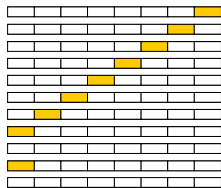
- ▶ SAE J845 Class I



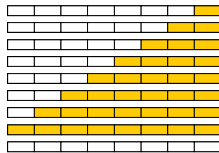
High output directional warning with the added benefits of low amp draw, maintenance free, and long-life LED light source. The LED Safety Director™ is the definitive traffic direction lighting solution.

Flash Patterns

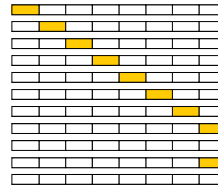
LEFT (L)



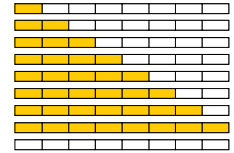
LEFT SOLID (LS)



RIGHT (R)



RIGHT SOLID (RS)



CENTER OUT (C)



CENTER OUT SOLID (CS)



WIG WAG (WW)



ALTERNATING QUAD FLASH (AQF)



LED Safety Director™ System

PART NO.	CABLE LENGTH	VOLTAGE	MAX AMPS*	SAE	LIGHT SOURCE
3315	15'	12	7.0		LED
3335	35'	12	7.0		
3355	55'	12	7.0		

* Excludes auxiliary output



3510 Series

SAE Class I Surface Mount LED Light Head



3510A

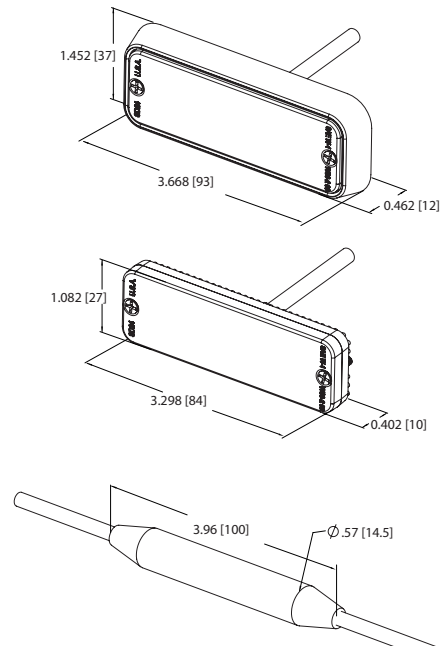
The 3510 surface mount LED warning light is designed to offer maximum performance with minimum size. This slimline LED measures only 3.3" x 1.1" and only 0.4" deep, comprising of 24 1-watt high-intensity LEDs in an ultra compact housing. This small footprint allows for mounting in almost any location on a vehicle body. Synchronizable with additional 3510s and any Hide-A-LED model, the 3510 includes multiple flash patterns and is available in amber, blue, clear and red (colorless when not illuminated).

Features

- 24 1-watt high-intensity LEDs provide exceptional warning.
- 16 flash patterns including single, double, triple, quad, deci and cycle all.
- Synchronizable with additional 3510s and any Hide-A-LED (see pages 50-51).
- In-line waterproof driver module allows for premium functionality and compact size.
- UV stabilized polycarbonate lens and pre-wired 9' cable.
- Colorless when not illuminated.
- Warranty: 5 years
- Temperature Range: -22°F - +122°F (-30°C - +50°C)

Approvals

- SAE J595 Class I



Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Multi Flash (16)			
SURFACE	PART NO.	VOLTAGE	AMPS
	 3510X	12	0.75

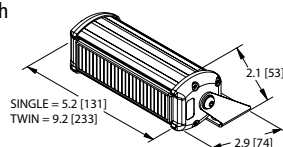
Multi Flash (16): Multiple unit synchronization and flash pattern selection available via switch wires at installation.

Multi Flash (16) Pattern Guide					
NO.	PATTERN	DESCRIPTION	NO.	PATTERN	DESCRIPTION
1	Quad Flash	75 Quad FPM	9	Cycle	Cycle through patterns 1-7
2	Double Flash	75 Double FPM	10	Double - Triple + Burst	2 Double, 2 Triple + Burst cycle
3	Triple Flash	92 Triple FPM	11	Cycle Classic	1 Double, 1 Quad, 2 Mega cycle
4	DeciBlast	85 Deci FPM	12	Quad - Mega	3 Quad, 4 Mega cycle
5	Single Flash	75 Single FPM	13	Single - Quad	2 Single, 2 Quad cycle
6	Mega Flash	114 Single FPM	14	DeciBlast - Quad	2 DeciBlast, Quad cycle
7	Triple + Burst	85 Triple + Burst FPM	15	Single - Triple - DeciBlast	2 Single, 2 Triple 2 DeciBlast cycle
8	Steady Burn	Always On	16	Mega - Triple + Burst	1 Mega, 1 Triple + Burst cycle

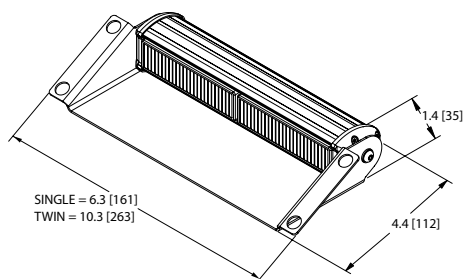
3600 Series (Single/Twin Head)

SAE Class I Grille/Deck/Dash & Window Mount LED Light Heads

Grille/Deck/Dash



Window



Features

- ▶ Extruded aluminum housing with epoxy encapsulated electronics.
- ▶ Steady Burn, Double, Fast Double, Quad and Quint Flash patterns, plus integral alternating flash modes (Single head models only).
- ▶ Discrete units are colorless until illuminated.
- ▶ LEDs offer a long, maintenance free service life.
- ▶ Multiple grille/deck/dash versions can be synchronized.
- ▶ Warranty: 5 year
- ▶ Temperature Range: -22F to +122F (-30C to +50C)

Approvals

- ▶ SAE J845 Class I (A, B & R)
- ▶ e



Utilizing ECCO's proven LED modules featuring four 1-watt LEDs each, these grille/deck/dash and window mount LED lights offer flexible mounting options for both permanent and temporary applications. Multiple hardwired, grille/deck/dash versions are synchronizable and are supplied with both temporary and permanent mounting hardware. Window mount versions feature flash pattern switch, 9' cable and switched cigarette plug adapters with 'on' light.

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

  Steady/Double/Quad/Quint Flash				
PART NO.	TYPE	VOLTAGE	AMPS	GRILLE/DECK/DASH
3610X	SINGLE	12	0.3	
3630XX	TWIN	12	0.6	
3615X	SINGLE	12	0.3	WINDOW 
3635XX	TWIN	12	0.6	 9' cord on cigarette plug

Grille/Deck/Dash: Multiple unit synchronization and flash pattern selection available via switch wires at installation.

Window: Flash patterns are user selectable at any time via switch mounted on housing.

3710/3760 Series SAE Class I Surface & Grommet Mount LED Light Heads

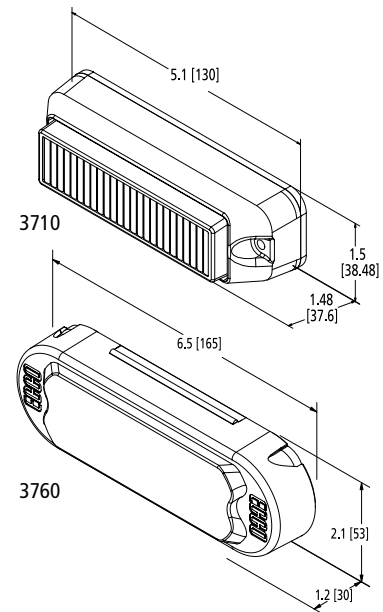


3710A

These versatile LEDs are available in either surface (3710) or grommet (3760) mount configurations. Both models feature four 1-watt LEDs, offer multiple flash patterns, synchronization capability and SAE Class I operation. The surface mount model features lambertian LEDs and a unique optic while the grommet mount version uses side-emitting LEDs and unique reflector design to provide outstanding light output. The 3760 model also has the added benefit of two California Title 13 flash patterns.

Features

- ▶ Robust die-cast coated aluminum housing with epoxy encapsulated electronics (3710, surface mount model).
- ▶ Tough clear polycarbonate lens with reinforced nylon housing and urethane encapsulated electronics (3760, grommet mount model).
- ▶ Grommet mount model fits standard oval rear lighting grommet (order separately).
- ▶ Steady Burn, Double, Fast Double, Quad and Quint flash patterns plus four integral alternating flash modes. 3760, grommet mount model also features two Cal. T13 flash patterns.
- ▶ Discrete units are colorless when not illuminated.
- ▶ Multiple units can be synchronized.
- ▶ LEDs offer a long, maintenance free service life.
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F - +122°F (-30°C - +50°C)



Approvals

- ▶ SAE J845 Class I
- ▶ California Title 13 (3760)
- ▶ CE, e

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Multi Flash (9) + Title 13 (3760 only)			
	PART NO.	VOLTAGE	AMPS
SURFACE 	3710X	12	0.3
GROMMET 	3760X	12	0.3

Multi Flash (9) + Title 13: Multiple unit synchronization and flash pattern selection available via switch wires at installation. (T13 only available on 3760 models)

3760 Series Accessories



Grommet

PART NO.

R2160GO

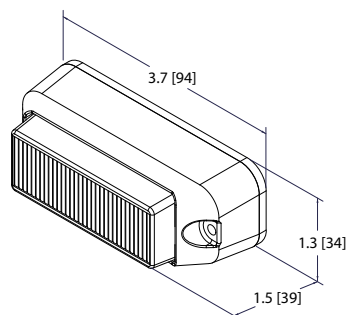


Mounting Box

PART NO.

A9895





Features

- ▶ Rugged die-cast coated aluminum housing with urethane encapsulated electronics.
- ▶ 14 flash patterns including 3 integral alternating flash modes.
- ▶ Discrete units are colorless when not illuminated.
- ▶ Multiple units can be synchronized.
- ▶ LEDs offer a long, maintenance free service life.
- ▶ Warranty: 5 years
- ▶ Temperature Range: -22°F - +122°F (-30°C - +50°C)

Approvals

- ▶ SAE J845 Class II (A, B & R)
- ▶ CE, e
- ▶ IP Rating 67

3730 Series SAE Class II Surface Mount LED Light Head



3730A

This compact LED has very similar features to the 3710 Series but is considerably smaller, comprising only three 1-watt LEDs. The 3730 provides a budget conscious option where a premium light with SAE Class II operation is required. Its compact size and ability to fit confined mounting locations, multiple flash patterns, synchronization capability, zero maintenance and 5 year warranty are just some of its many benefits. A range of accessory brackets is also available to further maximize mounting options.

Multi Flash Patterns (14)

Steady Burn
Single
Fast Single
Double
Fast Double
Triple
Quad
Quint
Flicker
Constant Flicker
Integral Double Alternating
Integral Fast Double Alternating
Integral Quad Alternating
Cycle

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Multi Flash (14)			
PART NO.	VOLTAGE	AMPS	SURFACE
3730X	12-24	0.2	

Multi Flash (14): Multiple unit synchronization and flash pattern selection available via switch wires at installation.

3730 Series Accessories



Mounting Brackets				
UNIVERSAL	TRUNK	DECK	WINDOW	LICENSE
A3730BKT	A3730TNK	A3730DCK	A3730WIN	A3730LIC

3810/3860 Series SAE Class I Surface & Grommet Mount LED Light Heads



3810A

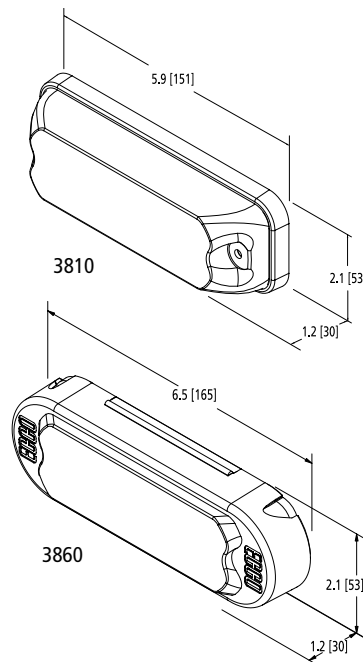
3810/3860 Series directional LEDs comprise 42 individual 1/4 watt LEDs with individual reflectors to provide truly outstanding light output in a very cost effective package. Available in either surface (3810) or grommet (3860) mount configurations these quad flash LED light heads offer fit and forget, maintenance free operation and low amp draw.

Features

- Tough, clear polycarbonate housing with urethane encapsulated electronics.
- High output 75 FPM quad flash operation.
- Discrete units are colorless when not illuminated.
- Grommet mount versions fit standard oval rear lighting grommet (order separately).
- LEDs offer a long, maintenance free service life.
- Warranty: 5 year
- Temperature Range: -22F to +122F (-30C to +50C)

Approvals

- SAE J845 Class I (A, B & R)
- CE, e



Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Quad Flash			
SURFACE	PART NO.	VOLTAGE	AMPS
	3810X	12	0.9
GROMMET	PART NO.	VOLTAGE	AMPS
	3860X	12	0.9

Quad Flash: Non-synchronizable, quad flash operation

3860 Series Accessories



Adapter

PART NO.

A3860ADPT

Converts surface mount light to grommet mount



Grommet

PART NO.

R2160GO

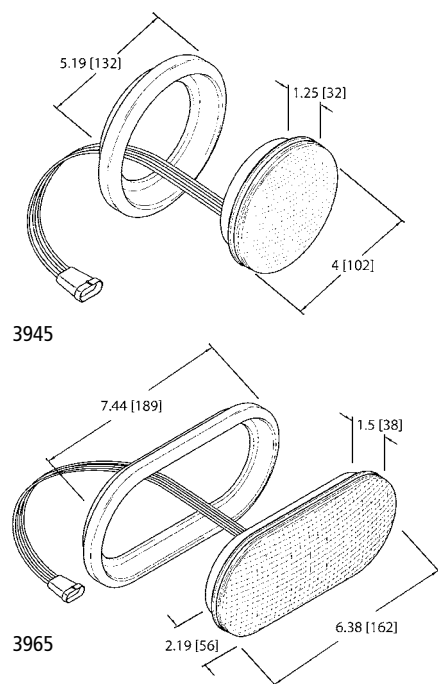


Mounting Box

PART NO.

A9895





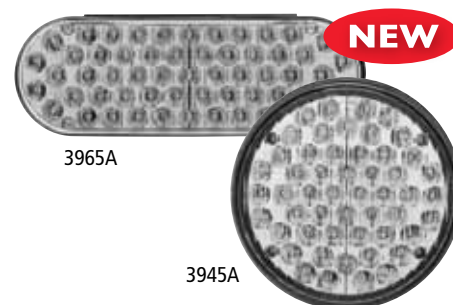
Features

- Quick and easy grommet mount installation.
- Single, Slow Single, Fast Single, Double, Fast Double, Quad, Quint and Warp flash patterns.
- Fits in standard oval or round rear lighting grommet (included).
- Vibration and shock resistant construction.
- Warranty: 5 years
- Temperature Range: -22°F to +122°F (-30°C to +50°C)

Approvals

- SAE J595 Class I
- California Title 13

3900 Series SAE Class I Grommet Mount LED Light Heads



These grommet mount LED directional lights offer long-life, low maintenance operation with no moving parts or bulbs/flashtubes to break or replace. Simply fit in the supplied oval or round rear lighting grommet.

Replace X in part number with desired color: A = amber, R = red

 				Multi Flash (8)	
PART NO.	VOLTAGE	AMPS	SHAPE		
3945X	12	0.5	ROUND	 GROMMET	
3965X	12	0.5	OVAL	 GROMMET	

Multi Flash (8): Flash pattern selection available via switch wire at installation.

3900 Series Accessories



Grommets	
ROUND	OVAL
R2140GR	R2160GO

Mounting Boxes	
ROUND	OVAL
A9894	A9895

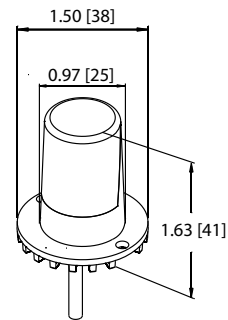
9010/9011/9021/9031 Series Concealed Warning Lights



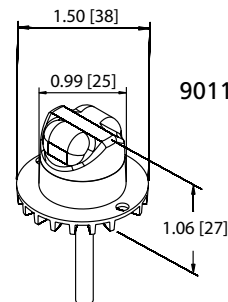
These high intensity directional LED warning lights are specifically designed for vehicle headlight and tail light applications. The 9010's design produces directional light output and can be positioned to project light directly through the front of the headlight or back at the reflective light casings to produce a less intense, indirect flash. The 9011, 9021 & 9031's optic design produces wide angle light dispersion and maximizes secondary light output reflected off the vehicle light casing. Multiple flash patterns are included and multiple units can be synchronized to flash alternately or simultaneously. Additional benefits of LED technology include high intensity light output, low current draw and a long and maintenance-free service life.

Features

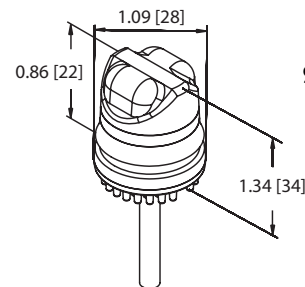
- Four 1-watt high-intensity LEDs provide exceptional warning.
- 9010's directional light dispersion produces direct, intense flash
- 9011, 9021 & 9031's wide angle light dispersion maximizes light casing reflection and mounting options.
9011 = 1 head / screw-on
9021 = 2 head / screw-on
9031 = 1 head / plug-in
- 16 Flash patterns including single, double, triple, quad, deci and cycle.
- Multiple heads are synchronizable (simultaneous or alternating operation).
- Colorless when not illuminated.
- In-line waterproof driver module eliminates the need for a remote power supply.
- UV stabilized polycarbonate lens, nickel plated housing and 9' cable.
- Warranty: 5 year
- Temperature Range: -22F to +122F (-30C to +50C)



9010



9011/9021

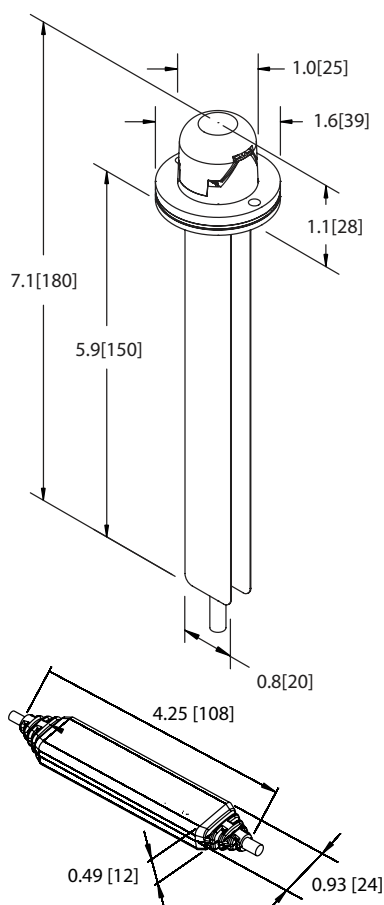


9031

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Multi Flash (16) 					
1" HOLE	PART NO.	HEADS	MOUNT	VOLTAGE	AMPS
	9010X	1	SCREW-ON	12	0.2 - 0.5
	9011X	1	SCREW-ON	12	0.2 - 0.5
 NEW	9021XX	2	SCREW-ON	12	0.4 - 1.0
 NEW	9031X	1	PLUG-IN	12	0.2 - 0.5

Multi Flash (16): Multiple unit synchronization and flash pattern selection available via switch wires at installation.



Features

- ▶ Six 1-watt LEDs produce super high-intensity warning beam.
- ▶ Choice of solid, 2-color multi or 3-color multi heads.
- ▶ 16 Flash patterns including single, double, triple, quad, deci and cycle all.
- ▶ Multiple heads are synchronizable (simultaneous or alternating operation).
- ▶ Colorless when not illuminated.
- ▶ In-line waterproof driver module eliminates the need for a remote power supply.
- ▶ UV stabilized polycarbonate lens, nickel plated housing and 9' cable.
- ▶ Warranty: 5 year
- ▶ Temperature Range: -22F to +122F (-30C to +50C)

Hide-A-LED™ - 9012 Series Concealed Warning Light



NEW

Similar to the 9011 series unit, the 9012 features two additional 1-watt LEDs providing super high-intensity light output. The LEDs' low profile allows mounting in small, confined light casings typical of tail lights and modern car headlights. Available in solid or multi-color models. 2-color multi models alternate outer two LED sets with inner LED set. 3-color models cycle through left, center, right LED sets. Sealed in-line driver module eliminates need for a remote power supply. Also features multiple flash patterns and synchronization capability. Additional benefits of LED technology include high-intensity light output, low current draw and a long maintenance-free service life.

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

LED® Multi Flash (16)							1" HOLE
PART NO.	COLOR(S)*	TYPE	HEADS	MOUNT	VOLTAGE	AMPS	
9012X	SPECIFY COLOR	SOLID	1	SCREW-ON	12-24	0.6 - 1.25	
9012ACA	AMBER/CLEAR	2 COLOR					
9012BRB	BLUE/RED	2 COLOR					
9012CRC	CLEAR/RED	2 COLOR					
9012RCB	RED/CLEAR/BLUE	3 COLOR					

Multi Flash (16): Multiple unit synchronization and flash pattern selection available via switch wires at installation.

Multi Flash (16) Pattern Guide

NO.	PATTERN	DESCRIPTION	NO.	PATTERN	DESCRIPTION
1	Quad Flash	75 Quad FPM	9	Cycle	Cycle through patterns 1-7
2	Double Flash	75 Double FPM	10	Double - Triple + Burst	2 Double, 2 Triple + Burst cycle
3	Triple Flash	92 Triple FPM	11	Cycle Classic	1 Double, 1 Quad, 2 Mega cycle
4	DeciBlast	85 Deci FPM	12	Quad - Mega	3 Quad, 4 Mega cycle
5	Single Flash	75 Single FPM	13	Single - Quad	2 Single, 2 Quad cycle
6	Mega Flash	114 Single FPM	14	DeciBlast - Quad	2 DeciBlast, Quad cycle
7	Triple + Burst	85 Triple + Burst FPM	15	Single - Triple - DeciBlast	2 Single, 2 Triple 2 DeciBlast cycle
8	Steady Burn	Always On	16	Mega - Triple + Burst	1 Mega, 1 Triple + Burst cycle

9200 Series 2 Head Remote Strobe System

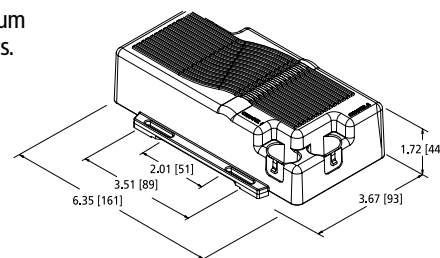


9230

The 9200 Series 2 Head Power Supply is feature-packed and built to withstand the toughest applications. Due to its unique heavy-duty design the unit can be mounted anywhere on the vehicle, inside or out. The power supply, strobe heads and cables can be purchased individually or in a variety of standard systems.

Features

- ▶ Power supply has compact die-cast aluminum housing and epoxy encapsulated electronics.
- ▶ Weatherproof housing and connections allow mounting anywhere on vehicle.
- ▶ Hide-away or directional strobe systems available.
- ▶ Hi/Lo intensity and Double/Quad flash operation.
- ▶ Short circuit protection, output power regulation and flashtube fault detection.
- ▶ Warranty: Power Supply = 2 years
Flashtube = 6 months
- ▶ Temperature Range: -22°F to +122°F
(-30°C to + 50°C)



Approvals

- ▶ CE, e

Power Supply



	PART NO.	VOLTAGE	WATTS	MODE	FPM		APPROVALS
					DBL	QUAD	
	9230	12-24	30W	HI / LO	70	65	CE, e

Hide-Away Systems



	PART NO.	VOLTAGE	COLOR	CABLE	JOULES				FPM	
					HIGH DBL	QUAD	LOW DBL	QUAD	DBL	QUAD
	9230-1	12-24	CLEAR	15'	12.5	13.5	6.8	10	70	65
	9230-3			35'						
	9230-2		AMBER	15'	12.5	13.5	6.8	10	70	65
	9230-5			35'						

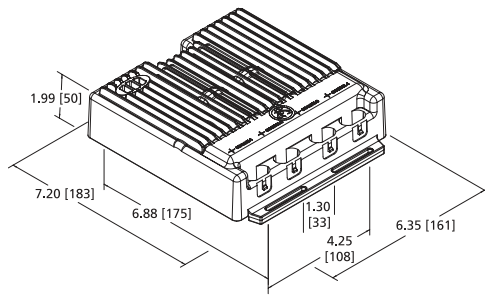
System Comprises: 1 PSU, 2 Hide-away tubes, 2 cables.

Directional Systems



	PART NO.	VOLTAGE	COLOR	CABLE	JOULES				FPM		APPROVALS
					HIGH DBL	QUAD	LOW DBL	QUAD	DBL	QUAD	
	9230-4	12-24	AMBER	15'	12.5	13.5	6.8	10	70	65	CE, e
	9230-6			35'							

System Comprises: 1 PSU, 2 oval light heads, 2 cables. (Mounting grommets not included.)



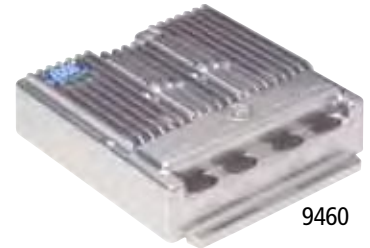
Features

- ▶ Power supply has compact die-cast aluminum housing and epoxy encapsulated electronics.
- ▶ Weatherproof housing and connections allow mounting anywhere on vehicle.
- ▶ Hide-away and directional/360° strobe systems available (see also page 55).
- ▶ Hi/Lo intensity and Double/Quad flash operation.
- ▶ Designed for efficient heat dissipation for longer life.
- ▶ Short circuit protection, output power regulation and flashtube fault detection.
- ▶ Warranty: Power Supply = 2 years
Flashtube = 6 months
- ▶ Temperature Range: -22°F to +122°F
(-30°C to + 50°C)

Approvals

- ▶ CE, e

9400 Series 4 Head Remote Strobe System



9460

The feature-packed 9400 Series Power Supply is designed and built to withstand the toughest applications. Weatherproof connections and epoxy-filled housing with capacitor heat dissipation cradles are why this power supply offers unrivaled protection against heat, vibration, dust and moisture. Available in many system configurations, and as individual components.

Power Supply						
PART NO.	VOLTAGE	WATTS	MODE	FPM		APPROVALS
				DBL	QUAD	
9460	12-24	60W	HI / LO	70	65	CE, e



Hide-Away Systems												
PART NO.	VOLTAGE	COLOR	CABLE				HIGH JOULES				LOW FPM	
			15'	20'	25'	35'	DBL	QUAD	DBL	QUAD	DBL	QUAD
9460-1	12-24	CLEAR	4									
9460-11			2	2								
9460-18			2			2						
9460-14				2	2							
9460-19					4							
9460-22						4						
9460-15	12-24	AMBER	4									
9460-16			2			2						
9460-20					4							



System Comprises: 1 PSU, 4 Hide-Away tubes, 4 cables

9600 Series 6 Head Remote Strobe System

NEW

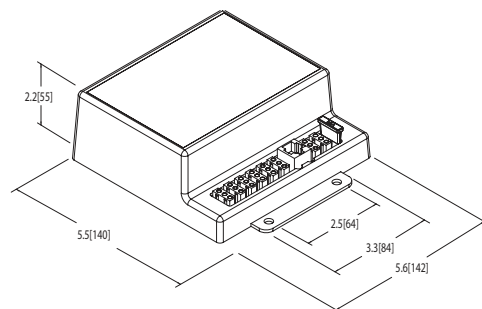


9660

The 9600 Series 6 head power supply features 15 flash patterns including Quad, Quint, Mega, Double, Single, Warble, and Cycle. Twin diagnostic LEDs also make it simple to locate system faults in the field as the output LED indicator lights when any strobe head fires and blinks in exact time with the flash pattern. Also features 60-watt operation, hi/lo intensity control, glass-filled nylon housing and reverse-polarity protection. Available as individual components or a preconfigured system with four clear tubes and four 15' cables.

Features

- ▶ Glass-filled nylon housing
- ▶ 60-watt power system
- ▶ 15 flash patterns
- ▶ Switchable hi/lo intensity control
- ▶ Plug-in switch console available (order separately A9660SW)
- ▶ Short circuit protection, output power regulation and flashtube fault detection
- ▶ Warranty: Power Supply = 2 years / Flashtube = 6 months
- ▶ Temperature Range: -22F to +122F (-30C to +50C)



Power Supply



	PART NO.	VOLTAGE	WATTS	MODE	FPM
	9660	12-24	60W	HI / LO	VARIES

Hide-Away System



	PART NO.	VOLTAGE	COLOR	CABLE	JOULES
	9660-1	12-24	CLEAR	15'	51.5

System Comprises: 1 PSU, 4 hide-away tubes, 4 cables (expandable up to 6 heads).

9600 Series Accessories

Switch Panel

PART NO.

A9660SW



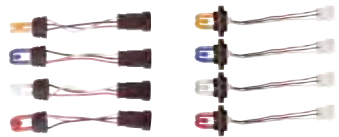
- ▶ Plugs directly into 9600 power supply
- ▶ On/off, hi/lo, selective heads and pattern select switches
- ▶ Diagnostic LED displays real time flash pattern
- ▶ 14' cable

Quick Reference 9460 System Configurations

PART NO.	VOLTAGE	STROBE LIGHT HEADS						CABLES							
		HIDEAWAYS		OVALS		360°		SHIELDED				NON-SHIELDED			
		AMBER	CLEAR	AMBER	CLEAR	AMBER	CLEAR	15'	20'	25'	35'	15'	20'	25'	35'
		9001A	9001C	9006A	9006C	9070A	9070C	9915S	9920S	9925S	9935S	9915	9920	9925	9935
9460-15	12	4										4			
9460-9		4						2			2				
9460-16		4										2			2
9460-20		4												4	
9460-24		4										2	2		
9460-13		2	2									2		2	
9460-17		2	2									4			
9460-21		2	2									1	2	1	
9460-10		2		2				2			2				
9460-23		2	2										2	2	
9460-1			4									4			
9460-11			4									2	2		
9460-14			4										2	2	
9460-18			4									2			2
9460-19			4											4	
9460-22			4												4
9460-8				2		2						2			2
9460-7				2		1						1			2

9200 / 9400 / 9600 Series Components

Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Strobe Light Heads			
PART NO.	VOLTAGE	HIDE-AWAY	
9001X	12	 9001 Use with 9200/9400 9007 Use with 9600	
9007X			
9006X	12	 2™ Amber only Use with 9200/9400 OVAL REPLACEMENT TUBE: R9000FT	
PART NO.	VOLTAGE	PROFILE	360°
9050X	12-24	LOW	 Low Medium REPLACEMENT TUBE: R6501FT
9070X	12-24	MEDIUM	

Cables & Adapters			
 9915AMP*  Only cable for use with 9600 Series	PART NO.	LENGTH	TYPE
	9915	15'	Non-Shielded Cable
	9920	20'	
	9925	25'	
	9935	35'	
	9950	50'	
	9900-BULK	500' roll	Shielded Cable
	9915S	15'	
	9915AMP*		
	9935S	35'	
9950S	50'		
 Use with 9200/9400	PART NO.		DESCRIPTION
	A9000AMP		SUPER SEAL CONNECTOR PLUS PINS
	R9000PCH		POWER CABLE

2000 Series Remote Strobe & LED Systems

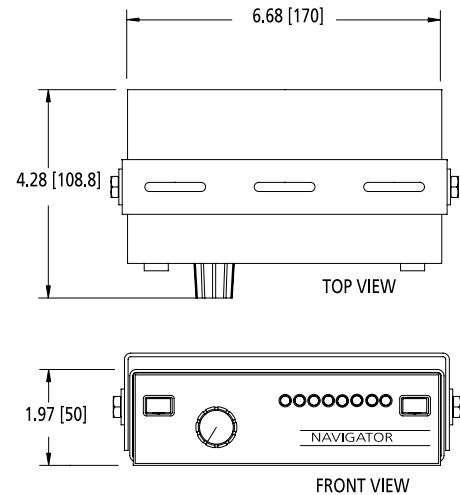


Features

- In-cab control box with LED flash indicators and auxiliary strobe light control switch.
- 8 user-selectable flash patterns.
- LED systems offer low maintenance and long life.
- Uses standard 14-18 gauge wire (user supplied).
- Warranty: 2 years / Flashtube = 6 months
- Temperature Range: -22°F to +122°F (-30°C to + 50°C)

Approvals

- SAE J1318 Class II (2550 & 2570)
- CE



The Navigator® lighting system offers ultimate control of all your vehicles warning lights. 8 Channels, 8 Flash patterns, a deluxe control unit and the ability to combine Strobe and LED make the Navigator® a highly flexible lighting system. Uses standard 14-18 gauge wire to connect components (not supplied), build your own system by selecting the control box (below) and up to 8 light heads from the opposite page.

Navigator® Control Box

	PART NO.	VOLTAGE	HEADS
	2000	12	8

Multi Flash (8) Pattern Guide

MODE	FPM	FLASH PATTERNS
Emergency	86	All heads double flash simultaneously
Bounce	Variable	Channels alternate at a variable rate: slow to fast to slow
Sequence	Variable	Channels alternate single, double, triple, quad, quint, and back to single
Quint	49	Channels alternate in five flash mode
Quad	61	Channels alternate in four flash mode
Triple	62	Channels alternate in three flash mode
Double	64	Channels alternate in two flash mode
Hyper Flash	102	Channels alternate in fast single flash mode



Replace X in part number with desired color:
A = amber, R = red

2000 Series Components

 Navigator® LED Light Heads				
PART NO.	COLOR	VOLTAGE	SHAPE	GROMMET
2140X	SPECIFY COLOR	12	ROUND	
2110A	AMBER	12	RECTANGLE	 SURFACE
PART NO.	DESCRIPTION			GROMMET ADAPTER
A3860ADPT	Adapter Converts 2110X Surface Mount Light to oval Grommet Mount			

Triggered LEDs for use only with 2000 control box.

 Navigator® 360° Strobe Light Heads				
PART NO.	PROFILE	COLOR	VOLTAGE	3 BOLT FLANGE / 1" PIPE
2550A	LOW	AMBER	12	 Low  Medium
2570A	MEDIUM			

Triggered strobes for use only with 2000 control box.

2000 Series Replacement Parts



Flashtube						Lenses
PART NO.	PROFILE	AMBER	BLUE	CLEAR	GREEN	RED
R6501FT	LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR
	MEDIUM	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR

ECCO'S LINE OF BACK-UP ALARMS



800 Series*



700 Series



600 Series*



500 Series*



400 Series*



200 Series*



40 Series*

Look For The Original

Over the last 35 years ECCO has become the worlds leading back-up alarm supplier. That's why ECCO's range of back-up alarms offers the most extensive selection in the industry, covering a wide variety of applications & environments. We are committed to bringing ground-breaking products to the back-up alarm industry.

Built to Last

Designed to meet all the harsh operational requirements of any fleet's equipment, ECCO's unique 400, 600 & 800 Series alarm design uses a reverse mounted speaker providing unrivalled durability. These alarms are so robust that an ECCOLIFE™ warranty covering the alarm for the life of the vehicle is offered on all models. Look for the ECCOLIFE™ logo.

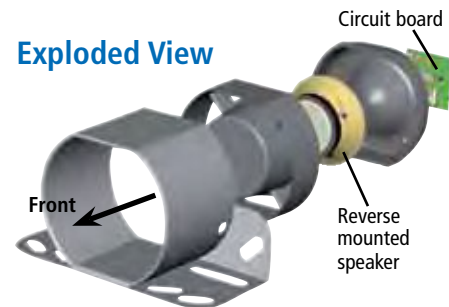
The unique positioning of the speaker facing the inside of the housing allows for high pressure washing or steam cleaning without risk of speaker damage. In addition it offers no place for fine dust to build up and reduce the alarms efficiency. Epoxy encapsulated circuit boards offer further protection from dust, moisture and vibration.

AMECA Certification



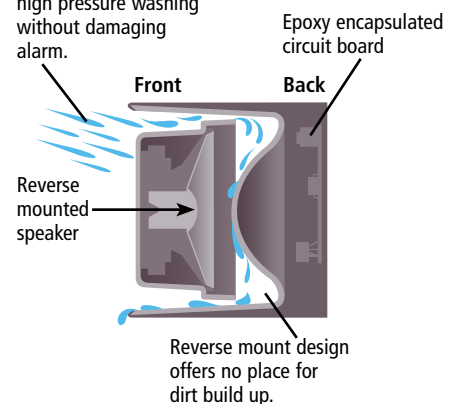
Many of ECCO's alarms are now independently certified by AMECA to meet SAE J994 requirements, ensuring our alarms meet customer's highest quality expectations. Our Engineering Test Lab is certified by the Automotive Manufacturers Equipment Compliance Agency (AMECA) to perform testing as per the Society of Automotive Engineers (SAE) requirements. ECCO test reports are reviewed by AMECA and Notice of Equipment Compliances are issued. These are denoted here as AMECA certified and indicated on the SAE Indicator shown with each alarm.

► dB(a) output measured at a distance of 4' / 1.2m



Side View Cutaway

Design allows for high pressure washing without damaging alarm.



ECCO® Trademarks & Patents

The distinctive ECCO trademarks, trade dress, product designs, and configurations shown here with asterisks are recognizable throughout the world as unique to ECCO. They are synonymous with product quality and conformance to industry standards and are the sole and exclusive property of ECCO. All rights reserved.

U.S. Trademark Registrations (Alarms): 1,301,314; 2,140,618; 1,414,605; 1,803,136; 1,990,568; 2,501,189; 2,915,640; 3,003,235

U.S. Patents (Alarms): 6,211,774; 6,166,623; 5,315,288; 4,994,800; D466,430; D485,201; D514,010 Other patents pending

Various international trademarks & patents also held for more information contact ECCO Customer Service.

SAE Classification Indicator

Featured on the following pages, the SAE Classification Indicator is designed to aid product selection, making it easier for customers to purchase the correct alarm for their application. In addition to SAE type the indicator also designates the alarm features, warranty, and AMECA certification where applicable.

Special Feature

This designation indicates alarm output can be set to various output levels.

SAE Type [dB(A) level]



Special Feature

This designation indicates alarm monitors the ambient noise level and automatically adjusts to a minimum of 5 dB(A) above ambient noise level, up to a maximum rated output.

Warranty:

ECCOLIFE™ Life of Vehicle Warranty



Indicator printed in blue



Indicator printed in red

AMECA Certification (Where applicable)

Helping you choose the right alarm.

Quick Selector Guide

SAE TYPE	dB(A)	SMART ALARMS® (SELF ADJUSTING)	SWITCHABLE ALARMS (MANUALLY ADJUSTABLE)	FIXED dB(A) ALARMS
A	112			876 p.69 450 p.63 850 p.68
B	107	SA920 p.61	872 p.69	830 p.68 630 p.66 575 p.65
	102	SA914 p.61	777 p.67 840 p.68	530 p.64 435 p.62
C	97	SA955 p.60 SA950 p.60 SA901 p.61 SA940 p.60	820 p.68	610 p.66 510 p.64 415 p.62 410 p.63 520 p.64 210 p.65 585 p.64
D	87	SA931 p.61 SA980 p.61 SA951 p.60		505 p.64 580 p.64
	82			
E	77			
F	Other	SMART ALARM®		

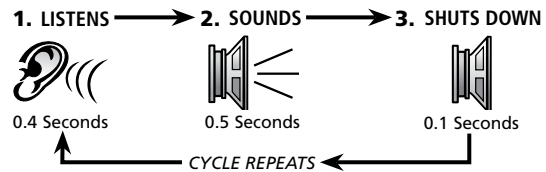
SMART ALARM®

Noise Pollution Solutions™

ECCO's range of Smart Alarms® are the worlds first self-adjusting back-up alarms. The alarms featured on these pages constantly measure ambient noise and adjust their sound level, creating a volume that is safe without being annoying or contributing to noise pollution. Smart Alarms® eliminate the need for constant manual adjustment and help prevent intentional alarm disconnection.



How Smart Alarms® adjust to the environment

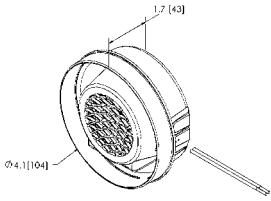


- ▶ 100% solid state electronic circuit boards are epoxy sealed to protect against dust, moisture and vibration.
- ▶ Reduces irritation and noise complaints.
- ▶ Eliminates confusion on which alarm to choose.
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)
- ▶ Designed to meet SAE J994, Type F



40 Series

- ▶ For use with standard 4.5" rear lighting grommet (order separately).
- ▶ Directs warning to rear of vehicle.
- ▶ 2 Year Warranty

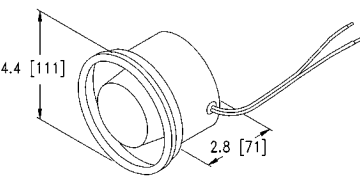
		PART NO.	VOLTAGE	dB(A)	AMPS	CE
		SA955	12-24	82-102	0.4	

▶ Mounting Grommet: R2140GR



400 Series

- ▶ For use with standard 4.5" rear lighting grommet (order separately).
- ▶ Directs warning to rear of vehicle.
- ▶ Reverse mounted speaker design ensures longer alarm life.
- ▶ ECCOLIFE™ Warranty

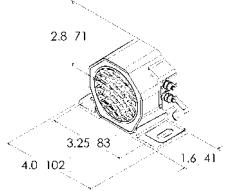
		PART NO.	VOLTAGE	dB(A)	AMPS	CE
		SA940	12-24	87-112	0.6	

▶ Mounting Grommet: R2140GR



500 Series

- ▶ Compact size and universal mounting pattern maximizes location options.
- ▶ Self-grounding.
- ▶ 2 Year Warranty

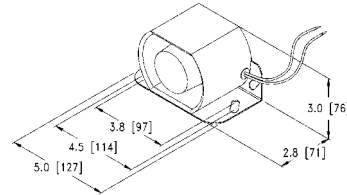
		PART NO.	VOLTAGE	dB(A)	AMPS	UL CE
		SA950	12-24	82-102	0.4	
		SA951	12-48	77-97	0.2	

- Compact and robust design ideal for demanding applications in medium noise environments.
- Reverse mounted speaker design ensures longer alarm life.
- ECCOLIFE™ Warranty

600 Series



PART NO.	VOLTAGE	dB(A)	AMPS	
SA901	12-24	82-107	0.3	UL CE e
SA931	12-48	82-102	0.2	UL CE e
SA980	36-80	82-102	0.2	UL CE e

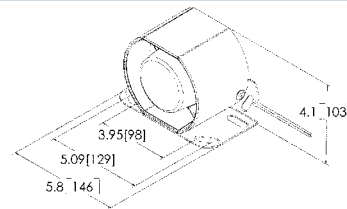


- Steel housing and rugged construction for demanding applications have made this ECCO's most popular Smart Alarm®.
- Reverse mounted speaker design ensures longer alarm- life.
- ECCOLIFE™ Warranty

800 Series



PART NO.	VOLTAGE	dB(A)	AMPS	
SA917	12-24	87-112	0.4	CE e

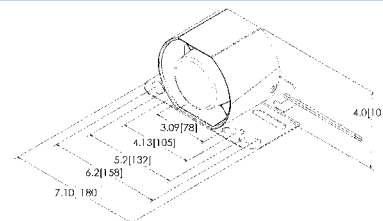


- Steel housing and rugged construction with integral bracket including popular OEM mounting pattern.
- Reverse mounted speaker design ensures longer alarm life.
- ECCOLIFE™ Warranty

800 Series



PART NO.	VOLTAGE	dB(A)	AMPS	
SA914	12-24	87-112	0.4	CE e

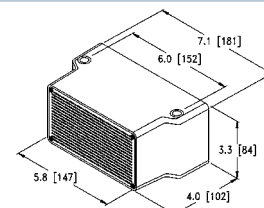


- Popular OEM design for rugged construction applications.
- 2 Year Warranty

700 Series



PART NO.	VOLTAGE	dB(A)	AMPS	
SA920	12-24	97-112	0.6	CE e

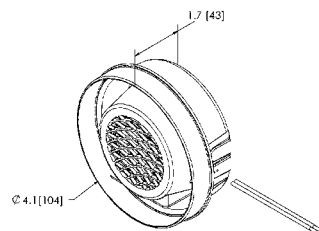


40 Series



Features

- ▶ Grommet mount reduces installation time, requiring no tools.
- ▶ Directs warning to rear of vehicle.
- ▶ For use with standard 4.5" rear lighting grommet (order separately).
- ▶ Epoxy sealed against dust, moisture and vibration.
- ▶ 2 Year Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)

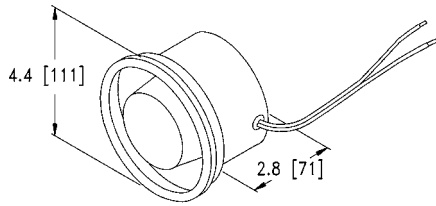


		PART NO.	VOLTAGE	dB(A)	AMPS	
 82-102 dB(A)		SA955	12-24	82-102	0.4	CE
102 dB(A)		435	12-24	102	0.3	SAE J994 CE
97 dB(A)		415	12-24	97	0.2	SAE J994 CE

- ▶ Models 415 and 435 are AMECA certified to SAE J994
- ▶ Mounting Grommet: R2140GR



400 Series



Features

- ▶ Grommet mount reduces installation time and directs warning to rear of vehicle.
- ▶ For use with standard 4.5" rear lighting grommet (order separately).
- ▶ Epoxy sealed for protection against dust, moisture and vibration.
- ▶ ECCOLIFE™ Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)



PART NO.	VOLTAGE	dB(A)	AMPS			
SA940	12-24	87-112	0.6	CE		SMART ALARM® 87-112 dB(A)
450	12-36	112	0.4	SAE J994 CE		112 dB(A)
410	12-36	97	0.1	SAE J994 CE		97 dB(A)

- ▶ Models 410 and 450 are AMECA certified to SAE J994
- ▶ Mounting Grommet: R2140GR

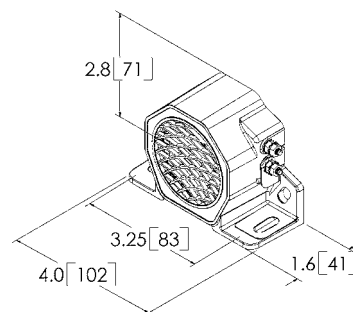


500 Series



Features

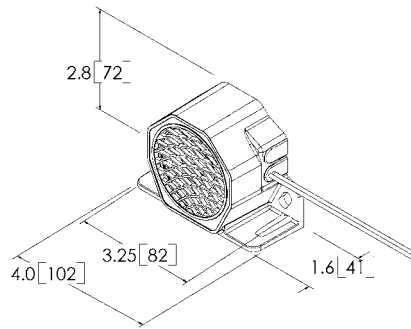
- ▶ Compact size and universal mounting bracket maximizes location options.
- ▶ Self grounding.
- ▶ Sealed in epoxy for protection against dust, moisture, and vibration.
- ▶ 2 Year Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)



		PART NO.	VOLTAGE	dB(A)	AMPS	
SMART ALARM® 82-102 77-97 dB(A)		SA950	12-24	82-102	0.4	  
		SA951	12-48	77-97	0.2	  
102 dB(A)		530	12-24	102	0.2	SAE J994   
97 dB(A)		510	12	97	0.2	SAE J994   
		520	12-24	97	0.2	SAE J994   
		585	12-48	97	0.1	SAE J994   
87 dB(A)		505	12-24	87	0.1	SAE J994   
		580	12-80	87	0.1	SAE J994   

▶ Models 510, 520 and 505 are AMECA certified to SAE J994





Features

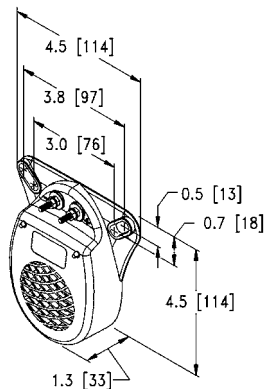
- Compact size and universal mounting bracket maximizes location options.
- Reverse polarity, voltage spike and surge protected.
- Works on positive and negative ground systems.
- Epoxy sealed to protect against dust, moisture and vibration.
- 2 Year Warranty
- Temperature range: -40°F to +185°F (-40°C to +85°C)

575 Series



PART NO.	VOLTAGE	dB(A)	AMPS			
575	12-24	107	0.3	SAE J994		107 dB(A)

► AMECA certified to SAE J994



Features

- Designed for mounting in areas where a compact profile is required.
- Universal mounting bracket covers a wide range of popular mounting applications.
- 2 Year Warranty
- Temperature range: -40°F to +185°F (-40°C to +85°C)

200 Series



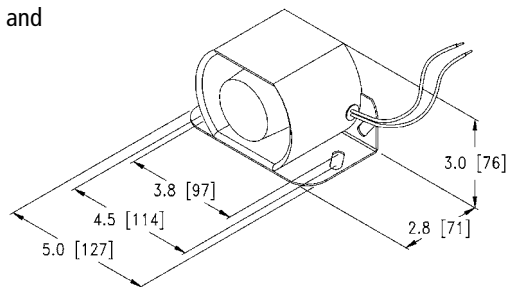
PART NO.	VOLTAGE	dB(A)	AMPS			
210	12	97	0.1	SAE J994		97 dB(A)

600 Series



Features

- ▶ Reverse mounted speaker enhances sound and protects the alarm from dust and moisture ingress.
- ▶ Compact housing and rugged construction designed for demanding applications.
- ▶ Sealed in epoxy to protect against dust, moisture and vibration.
- ▶ ECCOLIFE™ Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)

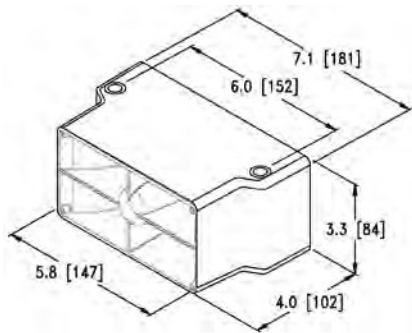


SMART ALARM® 82-107 82-102 dB(A)		PART NO.	VOLTAGE	dB(A)	AMPS	
		SA901	12-24	82-107	0.3	
		SA931	12-48	82-102	0.2	
		SA980	36-80	82-102	0.2	
107 dB(A)		630	12-36	107	0.4	SAE J994 
97 dB(A)		610	12-36	97	0.1	SAE J994 

▶ Models 610 & 630 are AMECA certified to SAE J994



700 Series



Features

- ▶ SA920 supplied with grille plate.
- ▶ Meets OEM design for rugged construction applications.
- ▶ Sealed in epoxy to protect against dust, moisture and vibration.
- ▶ 2 Year Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)



777 Shown

PART NO.	VOLTAGE	dB(A)	AMPS			
SA920	12-24	97-112	0.6	CE e		SMART ALARM® 97-112 dB(A)
777	12-24	97	0.5	SAE J994 CE e		97/107/112 SWITCHABLE dB rating user selected via switch
		107				
		112				

▶ **Switchable:** Volume selected via waterproof switch. Factory set to 112dB(A)

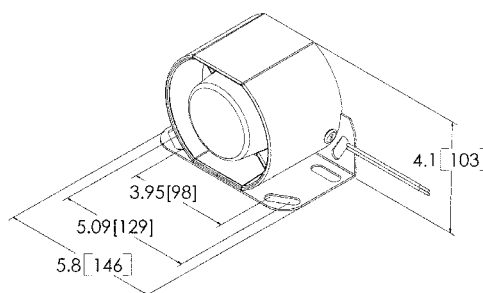


800 Series



Features

- ▶ Steel housing and rugged construction for demanding applications.
- ▶ Sealed in epoxy for protection against dust, moisture and vibration.
- ▶ Reverse mounted speaker enhances sound and protects the alarm from dust and moisture ingress.
- ▶ ECCOLIFE™ Warranty
- ▶ Temperature range: -40°F to +185°F (-40°C to +85°C)



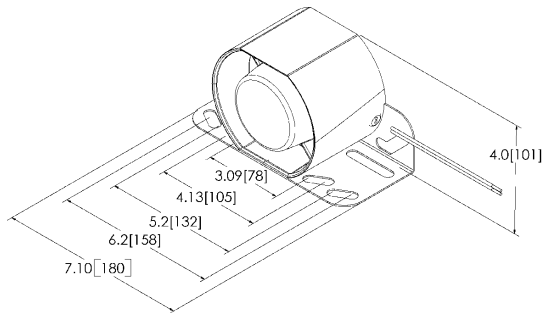
 87-112 dB(A)		PART NO.	VOLTAGE	dB(A)	AMPS	
		SA917	12-24	87-112	0.4	
112 dB(A)		850	12-36	112	0.4	SAE J994
107 dB(A)		830	12-36	107	0.4	SAE J994
97/112 dB(A) REVO™ dB rating user selected at time of installation		840	12-36	97	0.4	SAE J994
				112		
87/107 dB(A) REVO™ dB rating user selected at time of installation		820	12-36	87	0.4	SAE J994
				107		

▶ REVO™: Volume selected at time of installation.

▶ REVO™: Volume selected at time of installation.

▶ Models 820, 830, 840 & 850 are AMECA certified to SAE J994

800 Series



Features

- All the great features of the 800 Series along with a bracket that includes the same mounting pattern popular with OEMs.
- ECCOLIFE™ Warranty



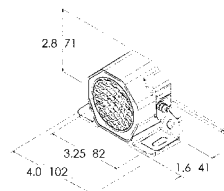
PART NO.	VOLTAGE	dB(A)	AMPS			
SA914	12-24	87-112	0.4	CE e		SMART LARM® 87-112 dB(A)
PART NO.	VOLTAGE	dB(A)	AMPS			
876	12-36	112	0.4	SAE J994 CE e		112 dB(A)
PART NO.	VOLTAGE	dB(A)	AMPS			
872	12-36	97	0.4	SAE J994 CE e		97/112 dB(A) REVO™ dB rating user selected at time of installation
		112				

- REVO™: Volume selected at time of installation.
- Models 872 & 876 are AMECA certified to SAE J994





- Dual function alarm provides back-up alarm and dual tone features in a compact housing.
- 2 Year Warranty

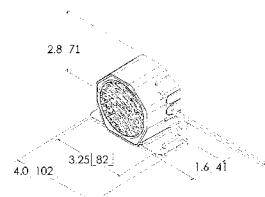


	PART NO.	VOLTAGE	dB(A)	SAE	AMPS	
DUAL FUNCTION	DF532	12-24	102 BACK-UP	F	0.3	SAE J994 
			102 DUAL TONE		0.3	

- SAE type F in back-up mode only.



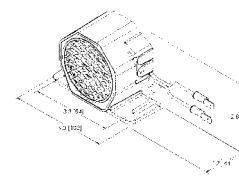
- Constant 102 decibel warning in a compact housing with 18" leadwire connection.
- 2 Year Warranty



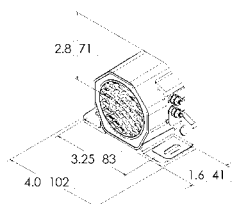
	PART NO.	VOLTAGE	dB(A)	SAE	AMPS	
CONSTANT TONE	CT530-2LDW	12-24	102	N/A	0.5	 



- Specifically designed for use on SCR controlled electric vehicles or heavy vibration IC vehicles.
- 2 Year Warranty



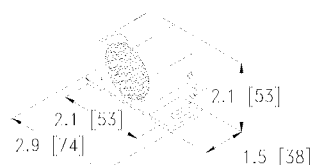
	PART NO.	VOLTAGE	dB(A)	SAE	AMPS	
FORWARD HORN	FH575	12	107	L	0.9	SAE J1105  
	FH577	24-48	107		0.8	 



- Cost effective dual tone warning in a compact housing.
- DT500FP features fast pulse, dual tone warning and leadwire connection.
- Not intended for use as a back-up alarm.
- 2 Year Warranty



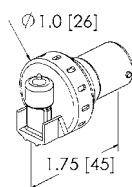
PART NO.	VOLTAGE	dB(A)	SAE	AMPS		DUAL TONE
DT500	12-24	97	N/A	0.5	CE	
DT500FP-LWC	12-24	102 FAST PULSE	N/A	0.9	UL CE	



- Warning alarm suitable and warranted for non-commercial vehicles only.
- 90 Day Warranty



PART NO.	VOLTAGE	dB(A)	AMPS	MINI ALARM
MS90	12	90	0.1	



- Back-up light replacement, combination back-up alert and bulb.
- Suitable and warranted for non-commercial vehicles only.
- Not intended for use as a commercial back-up alarm.
- 90 Day Warranty

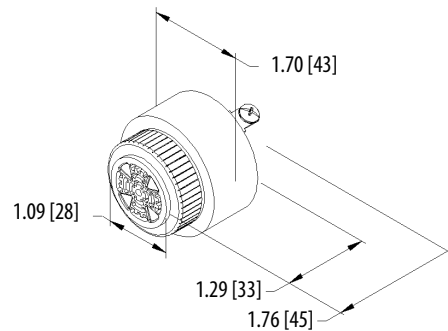


PART NO.	VOLTAGE	AMPS	CONTACT	WARNING ALARM & LIGHT
110-000	12	1.9	SINGLE CONTACT BAYONET	
111-000	12	1.9	WEDGE	

Audible Signal Devices



- ▶ Panel mount 1.25" hole.
- ▶ Piezo electronic design offers low amp draw.
- ▶ Polarity protected, fully encapsulated power supply.
- ▶ 6 Month Warranty



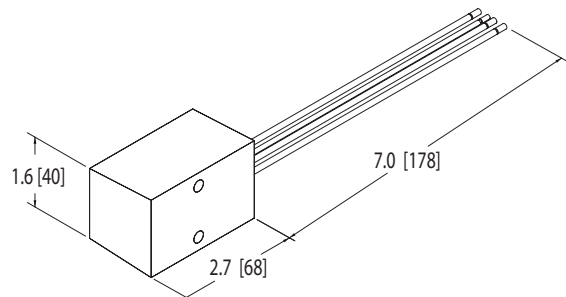
	PART NO.	VOLTAGE	dB(A)	AMPS	CONNECTION	
FAST PULSE	201120	12-48	80	0.1	4-40 SCREW	
SLOW PULSE	202110	12-48	80	0.1	1/4" MALE SPADE	
	202120	12-48	80	0.1	4-40 SCREW	
DUAL MODE Continuous & Fast Pulse	204120	12-48	80	0.1	4-40 SCREW	
LOUD CONTINUOUS	208120	12-48	80	0.1	4-40 SCREW	
CONTINUOUS	209120	12-48	68	0.1	4-40 SCREW	

▶ dB(A) measured at 1' / 30cm

Reverse Motion Sensors

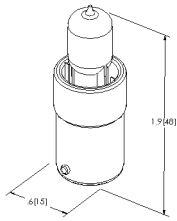


- ▶ Activates back-up alarm every time vehicle moves backward in any gear... ignition on or off.
- ▶ For use with electronic speedometer.
- ▶ Non-contact switch for longer life.
- ▶ 1 Year Warranty



	PART NO.	MAX AMPS	
DRIVE LINE SENSOR	DS-1500	5.0	Meets California refuse truck alarm device requirements.

Back-Up Bulbs

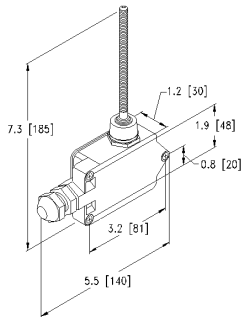


- Increases visibility for both driver and pedestrian when backing up.
- High intensity bulb is more than twice as powerful as a conventional back-up bulb.
- 90 Day Warranty



PART NO.	VOLTS	WATTS	TYPE	50W HALOGEN BULB
112-001	12 VDC	50	SINGLE CONTACT BAYONET	
112-002	12 VDC	50	WEDGE	

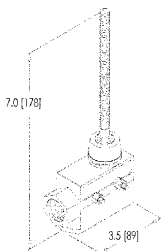
Switches



- Large, robust switch for rugged applications.
- Single pole, double throw switch with 360° movement.
- For vehicles not equipped with back-up lights.
- Metal housing, includes mounting bracket and waterproof compression fitting.
- 1 Year Warranty



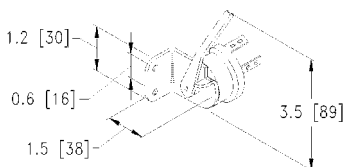
PART NO.	VOLTS	MAX AMPS	TYPE	360° SWITCH
SW30	12-80 VDC	10.0	NORMALLY OPEN OR CLOSED	



- Single pole, double throw switch with 360° movement.
- For vehicles not equipped with back-up lights.
- Metal housing, includes mounting bracket and waterproof compression fitting.
- 1 Year Warranty



PART NO.	VOLTS	MAX AMPS	TYPE	360° SWITCH
SW15	12-80 VDC	10.0	NORMALLY OPEN OR CLOSED	



- Single pole, single throw switch with single direction movement.
- For light duty vehicles not equipped with back-up lights.
- Weather resistant.
- 1 Year Warranty



PART NO.	VOLTS	MAX AMPS	TYPE	SINGLE DIRECTION SWITCH
SW10	12-24 VDC	5.0	NORMALLY OPEN	



Prevention Pays

There is overwhelming evidence showing the majority of accidents involving work vehicles (both on and off road) happen while vehicles are backing up. Each year countless incidents result in fatalities, injuries and/or costly damage to vehicles, equipment and property. ECCO's extensive line of camera systems is designed to offer a solution for every type of vehicle application in order to help prevent expensive accidents, eliminate workplace injuries and ultimately save lives.

Safety & Security

In addition to reversing safety, ECCO camera systems have many additional applications including side and/or front vision on large semi trucks and construction equipment, boom vision on access equipment, cranes or large material handling equipment as well as for vehicle security applications including transit bus, school bus and secure transportation.

Premium Quality, Premium Performance

All ECCO camera systems are manufactured to the highest quality and performance standards, offer premium features and utilize the latest technology to deliver a reliable, crystal clear image. All systems provide rugged dependability backed by a hassle free 1 Year warranty.

NEW

Gemineye™
CAMERA / DATA STORAGE SYSTEM

– Sets the Standard

Our Gemineye™ line of LCD systems is one of the most durable and flexible camera offerings available allowing you to choose from a base kit and, if desired, expand it with additional camera and peripheral options. Alternatively you can use our Camera System Specifier on page 9, choosing individual components to create the perfect system for your application. From compact 3.5" monitors to 7.0" widescreen monitors with multi camera, split-screen viewing capability and mini flush mount cameras to full featured automatic shutter cameras, Gemineye™ offers options to suit any need.

Suggested Applications

- Refuse Truck
- Dump Truck
- Beverage Truck
- Box Truck
- Recovery/Tow Truck
- Utility Truck
- Semi Truck
- Drawbar Truck
- Panel Van
- Street Sweeper
- Fuel Tanker
- Liquid Tanker
- Vacuum Tanker
- Cement Mixer
- Snow Plow
- Highway Maintenance / DOT
- School Bus
- Bus
- Coach
- RV (Motorhome)
- Fire Truck
- Ambulance
- Armored Vehicle
- Prison Transporter
- Material Handling Equipment
- Mobile Crane
- Heavy Construction Equipment
- Mining & Quarrying Equipment
- Forestry & Agricultural Equipment
- Landfill Equipment

K5010

Basic 5.0" CRT B&W System (Integral Controller)

This black & white camera system with 5.0" CRT monitor provides exceptional picture and sound quality in a cost effective package. Kit is expandable up to 2 cameras (C101 only).

Features

- ▶ 5.0" CRT monitor with volume, brightness, contrast, day/night, mirror imaging control & camera 1 or 2 and camera or AV selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Audio/Video input jacks allow VCR/DVD playback.
- ▶ Black & white camera with audio (included). Expandable up to 2 cameras (C101 only).
- ▶ 18m/60' transmission cable.
- ▶ 12-24 VDC
- ▶ FCC, CE, E



ECCO's most compact camera system offers an ideal solution for non commercial and light duty applications where dashboard or cab space is limited. The flat 3.5" LCD color monitor provides a clear, easily viewable image without compromising space and includes a suction cup bracket for temporary window or surface mounting. The high resolution monitor and flush mount camera deliver excellent picture quality. Kit is expandable up to 2 cameras.

Features

- ▶ 3.5" LCD color monitor with built in controller features contrast and brightness control and camera 1 or 2 selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Flush mount color camera with aluminum alloy housing (included), expandable up to 2 cameras.
- ▶ 5m/16' transmission cable/power harness (2 camera)
- ▶ 12-24 VDC
- ▶ E, IP68 (camera)



Gemineye™ – K3500 3.5" LCD Color System (Integral Controller)



cameras*



Basic Camera (B&W)
C101
(K5010 only)

Standard Camera
C2000
(K3500 only)

Eyeball Camera
C2002
(K3500 only)

Side/Box Camera
C2003
(K3500 only)

Flush Camera
C2004
(K3500 only)

Kit Expansion Options

* Additional cables are not required when expanding K5010 & K3500 kits to 2 cameras as the C101 camera includes an additional 18m/60' cable while the K3500 kit includes a 5m/16' 2 camera cable.

All cameras are color unless otherwise stated.



5.6" LCD SYSTEMS

5.6" LCD monitors are now the standard in vehicle camera system applications offering compact and unobtrusive mounting inside the operator area while delivering a relatively large, reliable and sharp image in all operating conditions. Systems are available that are expandable up to 4 cameras providing optional side view capability with automatic camera selection for lane changes and manual selection for close quarters maneuvering.

- ▶ 12-24 VDC
- ▶ FCC, CE, E, IP68 (camera)



K5600 – 5.6" LCD Color System (Integral Controller)

Comprising a feature packed 5.6" LCD high resolution color monitor and standard color infrared camera the K5600 delivers excellent picture quality even in low light conditions. The compact monitor allows for unobtrusive installation without compromising viewable screen area. Kit is expandable up to 2 cameras.

Features

- ▶ 5.6" LCD color monitor with built in controller features volume, contrast, brightness, day/night, mirror imaging control & camera 1 or 2 selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Standard color camera with audio & infrared (included), expandable up to 2 cameras.
- ▶ 20m/65' transmission cable.



cameras



B&W Camera
C1000



Standard Camera
C2000



Eyeball Camera
C2002



Side/Box Camera
C2003



Flush Camera
C2004

All cameras are color unless otherwise stated.

All the great features of the K5600 with the added functionality of an external controller providing 4 camera capability and touchpad operation. Featuring a 5.6" LCD high resolution, color monitor and standard color infrared camera the K5601 delivers excellent picture quality even in low light conditions. The compact monitor and remote mounted controller allows for unobtrusive installation without compromising viewable screen area or functionality. Kit is expandable up to 4 cameras.

Features

- ▶ 5.6" LCD color monitor features volume, contrast, brightness, day/night, mirror imaging control.
- ▶ External 4 channel controller allows expansion up to 4 cameras.
- ▶ Touchpad offers fingertip camera selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Standard color camera with audio & infrared (included), expandable up to 4 cameras.
- ▶ 20m/65' transmission cable.



Gemineye™ – K5601 5.6" LCD Color System (External Controller)



With a 5.6" LCD high resolution monitor and black & white infrared camera the K5602 provides a bright, clear picture even in adverse light conditions. The compact monitor allows for unobtrusive installation without compromising viewable screen area. Kit is expandable up to 2 cameras (C1000 only).

Features

- ▶ 5.6" LCD monitor with built in controller features volume, contrast, brightness, day/night, mirror imaging control & camera 1 or 2 selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Black & white camera with audio & infrared (included), expandable up to 2 cameras (C1000 only).
- ▶ 20m/65' transmission cable.



Gemineye™ – K5602 5.6" LCD B&W System (Integral Controller)



cables



5m/16'	15m/49'
TC05	TC15
10m/32'	20m/65'
TC10	TC20



7.0" WIDESCREEN LCD SYSTEMS

7.0" widescreen LCD monitors offer the same benefits as a 5.6" LCD as well as a significant improvement in viewable area with only a small increase in physical size. The standard for bus and long distance coach applications, a major advantage of a 7.0" monitor is the ability to easily view up to 4 cameras simultaneously using a split screen controller. This is ideal for multi camera applications using 1 rear view, 1 interior view and 2 side view cameras for example.

- ▶ 12-24 VDC
- ▶ FCC, CE, E, IP68 (camera)



K7000 – 7.0" LCD Color System (Integral Controller)

The 7.0" LCD high resolution color monitor included with this kit provides the optimal viewing area for mobile CCTV applications. Excellent picture quality is assured even in low light conditions using ECCO's standard color infrared camera. The flat, widescreen monitor allows unobtrusive mounting with a large, easily viewable screen area. Kit is expandable up to 2 cameras.

Features

- ▶ 7.0" widescreen LCD color monitor with built in controller features volume, contrast, brightness, day/night, mirror imaging control & camera 1 or 2 selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Standard color camera with audio & infrared (included). Expandable up to 2 cameras.
- ▶ 20m/65' transmission cable.



cameras



B&W Camera
C1000



Standard Camera
C2000



Shutter Camera
C2001
For use only with K7002,
requires TC20-6 (6 Pin Cable)



Eyeball Camera
C2002



Side/Box Camera
C2003



Flush Camera
C2004

All cameras are color unless otherwise stated.

All the great features of the K7000 with the added functionality of an external controller providing 4 camera capability and touchpad operation. Featuring a widescreen 7.0" LCD high resolution, color monitor and standard color infrared camera the K7001 delivers excellent picture quality even in low light conditions. The flat, widescreen monitor and remote mounted controller allows for unobtrusive installation with optimal viewing area and functionality. Kit is expandable up to 4 cameras.

Features

- ▶ 7.0" widescreen LCD color monitor features volume, contrast, brightness, day/night, mirror imaging control.
- ▶ External 4 channel controller allows expansion up to 4 cameras.
- ▶ Touchpad offers fingertip camera selection.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Standard color camera with audio & infrared (included), expandable up to 4 cameras.
- ▶ 20m/65' transmission cable.



Gemineye™ – K7001 7.0" LCD Color System (External Controller)



The K7002 is ECCO's most feature packed camera system offering all the features of the K7000 with the added functionality of an external controller providing 4 camera capability, split screen viewing and touchpad operation. Featuring a widescreen 7.0" LCD high resolution, color monitor and standard color infrared camera the K7001 delivers excellent picture quality even in low light conditions. The flat, widescreen monitor and remote mounted split screen controller allows for unobtrusive installation with optimal viewing area and the highest level of functionality. Kit is expandable up to 4 cameras.

Features

- ▶ 7.0" widescreen LCD color monitor features volume, contrast, brightness, day/night, mirror imaging control.
- ▶ External 4 channel, split screen controller allows the ability to expand the system and view up to 4 cameras simultaneously or each camera individually.
- ▶ Touchpad offers fingertip camera selection and split/single camera viewing control.
- ▶ Automatic camera selection via trigger wire (when reverse gear or relevant control engaged).
- ▶ Standard color camera with audio & infrared (included), expandable up to 4 cameras.
- ▶ 20m/65' transmission cable.



Gemineye™ – K7002 7.0" LCD Color System (External Split Screen Controller)



cables



5m/16' TC05	15m/49' TC15	20m/65' – (6 Pin) TC20-6 for use only with C2001
10m/32' TC10	20m/65' TC20	



M500 – Basic 5.0" CRT Black & White Monitor (Integral Controller. Use with C101 only)

- 5.0" CRT monitor with volume, brightness, contrast, day/night, mirror imaging control & camera 1 or 2 and camera or AV selection
- Automatic camera selection via trigger wire (when reverse gear engaged)
- Audio/Video input jacks allow VCR/DVD playback

Screen Size:	5.0" B&W
Voltage:	12-24 VDC
Power consumption:	≤12W
Audio:	Yes
Mirror/normal image switch:	Yes
Weight including stand:	3.3 lbs
Dimensions:	5.5(H) x 5.7(W) x 7.9(D)
Operating temp:	+5°F to +140°F
Day/night sensor:	No



M3500 – Gemineye™ 3.5" LCD Color Monitor (Integral Controller. Use with C2004 only)

- 3.5" LCD color monitor with built in controller features contrast and brightness control & camera 1 or 2 selection
- Automatic camera selection via trigger wire (when reverse gear or relevant control engaged)
- Suction mount bracket

Screen Size:	3.5" color
Voltage:	12-24 VDC
Power consumption:	≤7W
Audio:	No
Mirror/normal image switch:	No
Weight including stand:	.5 lbs
Dimensions:	3.16(H) x 4.03(W) x .97(D)
Operating temp:	+32°F to +140°F
Day/night sensor:	No



M5600 – Gemineye™ 5.6" LCD Color Monitor (Integral Controller)

- 5.6" LCD color monitor with built in controller features volume, contrast, brightness, day/night, mirror imaging control & camera 1 or 2 selection
- Automatic camera selection via trigger wire (when reverse gear or relevant control engaged)

Screen Size:	5.6" color
Voltage:	12-24 VDC
Power consumption:	≤7W
Audio:	Yes
Mirror/normal image switch:	Yes
Weight including stand:	1.2 lbs
Dimensions:	5.02(H) x 5.52(W) x 1.09(D)
Operating temp:	-22°F to +185°F
Day/night sensor:	Yes



M5601 – Gemineye™ 5.6" LCD Color Monitor (Requires External Controller)

- 5.6" LCD color monitor features volume, contrast, brightness, day/night, mirror imaging control
- Requires separate external CB20, CB40 or CB41 (split screen) controller to operate

Screen Size:	5.6" color
Voltage:	12 VDC, with controller (12-24 VDC)
Power consumption:	≤5W
Audio:	Yes
Mirror/normal image switch:	Yes
Weight including stand:	1.2 lbs
Dimensions:	5.02(H) x 5.52(W) x 1.09(D)
Operating temp:	-22°F to +185°F
Day/night sensor:	Yes



M7000 – Gemineye™ 7.0" LCD Color Monitor (Integral Controller)

- 7.0" widescreen LCD color monitor with built in controller features volume, contrast, brightness, day/night, mirror imaging control & camera 1 or 2 selection
- Automatic camera selection via trigger wire (when reverse gear or relevant control engaged)

Screen Size:	7" color
Voltage:	12-24 VDC
Power consumption:	≤7W
Audio:	Yes
Mirror/normal image switch:	Yes
Weight including stand:	1.2 lbs
Dimensions:	5.13(H) x 7.0(W) x 1.08(D)
Operating temp:	+14°F to +140°F
Day/night sensor:	Yes



M7001 – Gemineye™ 7.0" LCD Color Monitor (Requires External Controller)

- 7.0" widescreen LCD color monitor features volume, contrast, brightness, day/night, mirror imaging control
- Requires separate external CB20, CB40 or CB41 (split screen) controller to operate

Screen Size:	7" color
Voltage:	12 VDC, with controller (12-24 VDC)
Power consumption:	≤5W
Audio:	Yes
Mirror/normal image switch:	Yes
Weight including stand:	1.2 lbs
Dimensions:	5.13(H) x 7.0(W) x 1.08(D)
Operating temp:	+14°F to +140°F
Day/night sensor:	Yes



C101 – Basic Black & White Camera

(use with M500 only)

- Audio
- Includes 18m/60' transmission cable

Resolution (pixels): CCIR:512(H) x 582(V),
EIA:512(H) x 492(V)
Power consumption: ≤1.5W
Mechanical vibration: 10G
Image: 1/3" B&W
Lens angle: 120° (diagonal)
Weight: .9 lbs
Dimensions: 1.73(H) x 2.75(W) x 2.24(D)
Operating temp: -4°F to +122°F
Plug: 6 pin
IP rating: None



C1000 – Standard Black & White Camera

- Audio
- 18 IR LEDs provide high definition night vision
- Aluminum alloy housing

Resolution (pixels): CCIR:500(H) x 582(V),
EIA:510(H) x 492(V)
Power consumption: ≤2W
Mechanical vibration: 8G
Image: 1/4" B&W
Lens angle: 110° (diagonal)
Weight: .9 lbs
Dimensions: 3.19(H) x 3.15 (W) x 2.41(D)
Operating temp: -22°F to +149°F
Plug: 4 pin
IP rating: IP68



C2000 – Standard Color Camera

- Audio
- 18 IR LEDs provide high definition night vision
- Light Sensor: Auto switches to black & white image in low light conditions
- Aluminum alloy housing

Resolution (pixels): 500(H) x 582(V)
Power consumption: ≤2W
Mechanical vibration: 8G
Image: 1/4" Sony CCD
Lens angle: 110° (diagonal)
Weight: .9 lbs
Dimensions: 3.19(H) x 3.15 (W) x 2.41(D)
Operating temp: -22°F to +149°F
Plug: 4 pin
IP rating: IP68



C2001 – Automatic Shutter - Color Camera

- Audio
- 18 IR LEDs provide high definition night vision
- Light Sensor: Auto switches to black & white image in low light conditions
- Automatic shutter: Closes to protect lens automatically when not in use
- Aluminum alloy housing

Resolution (pixels): 500(H) x 582(V)
Power consumption: ≤2.5W
Mechanical vibration: 8G
Image: 1/4" Sony CCD
Lens angle: 110° (diagonal)
Weight: 1.3 lbs
Dimensions: 3.82(H) x 3.94(W) x 2.59(D)
Operating temp: -22°F to +149°F
Plug: 6 pin
IP rating: IP68

Only for use with CB20 & CB41 Controllers,
requires TC20-6 Cable.



C2002 – Eyeball – Color Camera

- Audio
- 9 IR LEDs provide high definition night vision
- Light Sensor: Auto switches to black & white image in low light conditions
- Eyeball design maximizes angle adjustment capability
- Aluminum alloy camera housing

Resolution (pixels): 500(H) x 582(V)
Power consumption: ≤1.5W
Mechanical vibration: 8G
Image: 1/4" Sony CCD
Lens angle: 110° (diagonal)
Weight: .7 lbs
Dimensions: 2.47(H) x 3.03(W) x 1.99(D)
Operating temp: -22°F to +149°F
Plug: 4 pin
IP rating: IP68



C2003 – Side/Box – Color Camera

- 9 IR LEDs provide high definition night vision
- Light Sensor: Auto switches to black & white image in low light conditions
- Aluminum alloy camera housing

Resolution (pixels): 500(H) x 582(V)
Power consumption: ≤1.5W
Mechanical vibration: 8G
Image: 1/4" Sony CCD
Lens angle: 110° (diagonal)
Weight: .6 lbs
Dimensions: 2.55(H) x 2.44(W) x 3.72(D)
Operating temp: -22°F to +149°F
Plug: 4 pin
IP rating: IP68

C2004 – Flush – Color Camera

- Flush mounts in bodywork/ bumper
- Aluminum alloy housing



Resolution (pixels): 500(H) x 582(V)
Power consumption: ≤1.2W
Mechanical vibration: 8G
Image: 1/4" Sony CCD
Lens angle: 150°
Weight: .3 lbs

Dimensions: Flange Dia. - 1.22
Body Dia. - 1.06
Length - 1.83
Operating temp: -22°F to +149°F
Plug: 4 pin
IP rating: IP68

controllers



CB20 – 2 Camera Controller

- Allows input of up to 2 cameras
- Automatic switching to rear view when reverse gear engaged
- Audio/video in and out jacks allow DVR/VCB connection
- Includes touchpad camera selection control

Max cameras: 2
 Power supply: 12-24 VDC
 Power consumption: 9W
 Dimensions: 1.31(H) x 6.16(W) x 2.96(D)
 Weight: .8 lbs
 Plug: 6 pin (requires ADPT-46 adapters for use with 4 pin cameras (order separately))



CB40 – 4 Camera Controller

- Allows input of up to 4 cameras
- Automatic switching to rear view when reverse gear engaged
- Audio/video out jacks
- Includes touchpad camera selection control

Max cameras: 4
 Power supply: 12-24 VDC
 Power consumption: 9W
 Dimensions: 1.31(H) x 6.16(W) x 2.96(D)
 Weight: .8 lbs
 Plug: 4 pin (not for use with C2001 shutter camera)



CB41 – 4 Camera Split Screen Controller

- Allows input of up to 4 cameras
- Allows split screen viewing of all cameras simultaneously or single cameras individually
- Automatic switching to rear view when reverse gear engaged
- Audio/video out jacks
- Includes touchpad camera selection control including quad/single view selection

Max cameras: 4
 Power supply: 12-24 VDC
 Power consumption: 18W
 Dimensions: 1.32(H) x 6.10(W) x 3.51(D)
 Weight: 1.0 lbs
 Plug: 6 pin (includes ADPT-46 adapters required for use with 4 pin cameras)

digital video



DVR04A

4 Channel Digital Video Recorder

- 2.5" disk drive with internal shock and vibration resistant mounting (order memory separately)
- External USB download port and mini-USB download port on internal 2.5" disk drive (download cables included)
- Individual trigger wires included for each camera channel

Power supply: 12-24 VDC
 Power consumption: <42W
 *Storage capacity: 80GB, 120GB
 Compression format: MPEG 2 DVD
 Dimensions: 4.45(H) x 11.04(W) 11.18(D)
 Weight: 13 lbs (excluding memory disk)
 Operating temp: +41°F to +122°F
 Humidity: <90%
 Mechanical vibration: 5G
 *Requires Digital Video Memory disks (sold separately)

Digital Video Memory

Digital memory disks for use with DVR04A digital video recorders

DVM80A	80GB
DVM120A	120GB

mounting brackets

MB01

Permanent Monitor Mount

Use with 5.6" and 7.0" monitors



MB02

Suction Cup Monitor Mount

Use with 3.5" monitors



monitor sun shades

SS5600

Use with 5.6" monitors

SS7000

Use with 7.0" monitors

cables



Gemineye™ Camera Transmission Cables

TC05	5m/16' (4 pin)
TC10	10m/32' (4 pin)
TC15	15m/49' (4 pin)
TC20	20m/65' (4 pin)
TC20-6	20m/65' (6 pin)

TC-TT10/TC-TT20

Tractor to trailer socket connector

(7pin trailer - 4 pin camera).

monitor to curly = 5m/16'

curly = 0.6m/2' - 2.4m/8'

curly to camera = 10m/32' = TC-TT10

curly to camera = 20m/65' = TC-TT20



Gemineye™ DVR to Camera Cables

TC-CDVR10	10m/32' (4 pin)
TC-CDVR15	15m/49' (4 pin)
TC-CDVR20	20m/65' (4 pin)

Gemineye™ DVR to Monitor Cables

TC-MDVR10	10m/32' (4 pin)
TC-MDVR15	15m/49' (4 pin)
TC-MDVR20	20m/65' (4 pin)

Basic CRT Camera Transmission Cables

T25	7.5m/25' (6 pin)
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cable adapters

ADPT-05

Monitor replacement adapter for legacy camera systems using M525 monitor (discontinued). (Female 16 / Male 13)



ADPT-07 – S-video to VHS

(S = Male 4 / VHS = Female 4)

ADPT-08 – S-video to VHS

(S = Female 4 / VHS = Male 4)

ADPT-46AE

4-6 pin adapter (Female 4 / Male 6)



ADPT-DVR01

Controller to camera & DVR "Y" cable (4 pin)

ADPT-DVR02

Controller to camera & DVR "Y" cable (6 pin)

ADPT-RCA01

DVR to Controller (CB20) adapter (s-video / RCA in)

ADPT-RCA02

DVR to Controller (CB20) adapter (VHS / RCA out)

1

choose a monitor



2

choose camera(s)

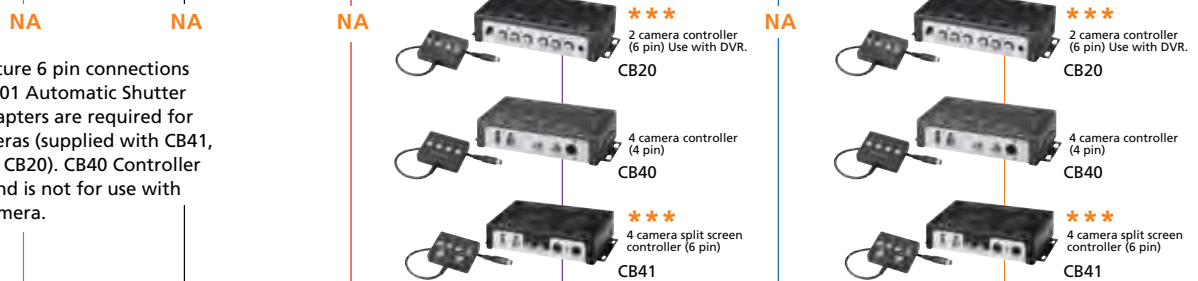


* C2001 Automatic Shutter Camera uses a 6 pin transmission cable. This camera is only for use with M5601 or M7001 Monitors in conjunction with a CB20 or CB41 (6 pin) Controller. A TC20-6 (6 Pin Cable) is also required for the shutter camera to operate correctly.

** C2004 requires ADPT08 adapter to operate with all monitors except M3500.

3

choose a controller



*** CB20 & CB41 Controllers feature 6 pin connections to allow functionality of C2001 Automatic Shutter Camera. ADPT-46 4-6 Pin Adapters are required for the connection of 4 pin cameras (supplied with CB41, order separately when using CB20). CB40 Controller features 4 pin connections and is not for use with C2001 Automatic Shutter Camera.

4

choose cable(s)



*** TC20-6 6 Pin Cable required for operation of C2001 Automatic Shutter Camera

5

choose digital video recorder/memory



Beacon Lenses

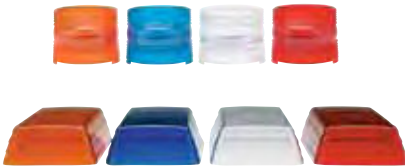
7900 Series - Pulse®						
	AMBER	BLUE	CLEAR	RED		
	R7960LA	R7960LB	R7960LC	R7960LR		
7100 Series - Reflex™						
	AMBER	BLUE	CLEAR	GREEN	RED	
	R7160LA	R7160LB	R7160LC	R7160LG	R7160LR	
6900 / 6700 / 6600 / 6500 / 6500 J-Bolt Series						
	PROFILE	AMBER	BLUE	CLEAR	GREEN	RED
	LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR
	MEDIUM / HIGH	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR
6400 Series						
	AMBER	BLUE	CLEAR	GREEN	RED	
	R6400LA	R6400LB	R6400LC	R6400LG	R6400LR	
6200 Series						
	AMBER	BLUE	CLEAR	GREEN	RED	
	R6220LA	R6220LB	R6220LC	R6220LG	R6220LR	
6260 Series						
	AMBER	BLUE	CLEAR	GREEN	RED	
	R6260LA	—	—	—	R6260LR	
5800 Series						
	TYPE	AMBER	BLUE	RED		
	LOW PROFILE	R5810LA	R5810LB	R5810LR		
	HIGH PROFILE	R5840LA	—	—		
5700 Series						
	AMBER	BLUE	CLEAR	GREEN	RED	
	R5700LA	R5700LB	R5700LC	R5700LG	R5700LR	

Safety Director Lenses

3000, 3200 Series	
PART NO.	DESCRIPTION
R3000LX	Solid (amber, blue, red)
R3000LAA	Directional Arrow (amber only)

Replace X in part number with desired color:
A = amber, B = blue, C = clear, R = red

Minibar Domes / Lenses

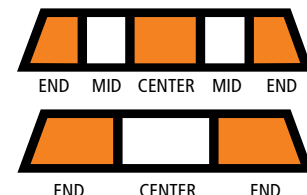
15 Series - 23" - Streetlazer™						
TYPE	END		CENTER		UPPER CENTER UPPER END 	
Upper Dome	R159-901X		R109-906X			
Lower Dome	R309-902C		R209-907C			
60 Series - 22" - Evolution®						
TYPE	AMBER	BLUE	CLEAR	RED		
Lens	R5150LA	R5150LB	R5150LC	R5150LR		
Dome	R5101LA	R5101LB	R5101LC	R5101LR		
70 Series - 22"						
Lens	R6050LA	R6050LB	R6050LC	R6050LR		
Dome	R5400LA	R5400LB	R5400LC	R5400LR		
Filter	A5000FA	A5000FB	-	A5000FR		
5135 / 5150 Series - 15" - Blaze II®						
Lens	R5150LA	R5150LB	R5150LC	R5150LR		
Dome	R5100LA	R5100LB	R5100LC	R5100LR		
5315 / 5350 Series - 15"						
TYPE	AMBER	BLUE	CLEAR	GREEN	RED	
Lens	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR	
Dome	R5300LA	R5300LB	R5300LC	-	R5300LR	
Filter	A5000FA	A5000FB	-	-	A5000FR	

Lightbar Domes

Replace X in part number with desired color:
A = amber, B = blue, C = clear, G = green, R = red (where applicable)

10 Series						
LENGTH	END		MID / CENTER			
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
ALL MODELS	R109-901C	R209-902C	R109-904X	R209-905C	R109-906X	R209-907C
15 Series - Streetlazer™						
ALL MODELS	R159-901X	R309-902C	R109-904X	R209-905C	R109-906X	R209-907C
20 Series						
ALL MODELS	R209-901X	R209-902C	R209-904X	R209-905C	R209-906X	R209-907C
30 Series						
ALL MODELS	R309-901X	R309-902C	R209-904X	R209-905C	R209-906X	R209-907C
60 Series - Evolution®						
LENGTH	END		MID / CENTER			
	PART NO.	LENGTH	PART NO.	LENGTH	PART NO.	LENGTH
36"/0.91m	R5103LX	11.4"/290mm	-	-	R5102LX	12.9"/327mm
48"/1.2m	R5105LX	10.4"/264mm	R5104LX	8.8"/224mm	R5102LX	12.9"/327mm
	R5108LX	12"/305mm	R5107LX	6"/154mm	R5104LX	8.8"/224mm
	R5110LX	17.4"/441mm	-	-	-	-
54"/1.37m	R5111LX	20.3"/517mm	R5107LX	6"/154mm	R5102LX	12.9"/327mm
	R5114LX	14.2"/361mm	-	-	R5109LX	18.9"/479mm
	R5115LX	11"/280mm	-	-	-	-
60"/1.5m	R5111LX	20.3"/517mm	R5107LX	6"/154mm	R5106LX	11.3"/288mm
	R5112LX	17.9"/455mm	-	-	R5109LX	18.9"/479mm
70 Series						
LENGTH	END		CENTER			
	PART NO.	LENGTH	PART NO.	LENGTH		
36"/0.91m	R5201LX	11.8"/300mm	R5200LX	11.7"/297mm		
	R5203LX	17.8"/452mm	-	-		
48"/1.2m	R5203LX	17.8"/452mm	R5200LX	11.7"/297mm		

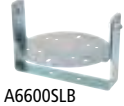
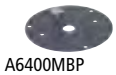
Dome Key



Lightbar Mounting Hardware

PART NO.	DESCRIPTION	USED WITH	PART NO.	DESCRIPTION	USED WITH
A1010RMK A1011RMK	HOOK-ON ROOF MOUNTS Ford truck 1/2T, 04-05 Dodge truck 1/2-1T, 02-05 GM truck 1/2-1T, 99-05	10 / 20 Series	A1018RMK A1019RMK A1020RMK	HOOK-ON ROOF MOUNTS Ford truck 3/4-1T, 99-05 Ford Crown Vic, 98-05 Ford Truck, 1/2T Crew Cab, 97	15 / 30 Series
A1012RMK A1013RMK A1014RMK A1016RMK A1017RMK	Ford truck 3/4-1T, 99-05 Ford Crown Vic, 98-05 Ford truck 1/2T, Crew Cab 97 Ford truck 1/2T, 04-05 Dodge truck 1/2-1T, 02-05 GM truck 1/2-1T, 99-05	10 / 20 Series 10 / 20 Series 10 / 20 Series 15 / 30 Series 15 / 30 Series	A5001RMK A5002RMK A5003RMK A5005RMK	Rubber Feet Kit Universal Gutterless Universal Gutter A5003RMK Rubber Feet Kit	15 / 30 Series 15 / 30 Series 15 / 30 Series 60 / 70 Series 60 / 70 Series, 48"- 60" 60 / 70 Series, 48"- 60" 15 / 30 Series

Mounting Hardware

PART NO.	DESCRIPTION	USED WITH
A3730BKT A3730DCK A3730LIC A3730TNK A3730WIN A6520HW A6600INS A6600SLB A6400MB A6400MBP A3610UMK A3615SMK A3630UMK A3635SMK A6522PF A6523PF A7660PF R3600SC	MOUNTING BRACKETS / KITS Universal Bracket Deck Mount Bracket Licence Plate Bracket Trunk Mount Bracket Adhesive Window Bracket J-Bolt Installation Kit Universal Installation Kit Self-Leveling Bracket 1" Pipe Mirror Bracket Mirror Bracket Adapter Plate Universal Mounting Bracket Windshield Mount Kit Universal Mounting Bracket Windshield Mount Kit 1" Pipe Mount Flange* 3/4" Pipe Mount Flange* *(Requires A6520MG, not included) 1" Pipe Mount Flange Suction Cup	3730 Series 3730 Series 3730 Series 3730 Series 3730 Series 6520, 6524, 6530 & 6534 All beacon models 9050, 9070, 2350, 2500, 2600 Series 2550, 2570, 9050, 9070, 2600, 5700, 6500, 6600, 6700 & 6900 Series 6500 Series 6200, 6400 Series (use with A6400MB) 3600 Series (Single Head) 3600 Series (Single Head) 3600 Series (Twin Head) 3600 Series (Twin Head) 6520, 6524, 6530, 6534 6520, 6524, 6530, 6534 7600 Series 3600 Series (Single/Twin Head)    
A5300MK A5300VMK R5300M A5700MK A5700VMK A6600MK A6520MG A6000VMK A6600VDK A6600MC A7660MK A7660VMK R6600M	MAGNET MOUNT KITS Magnet Mount Kit Vacuum-Magnet Mount Kit 2 3/8" Magnet Magnet Mount Kit Vacuum-magnet Mount Kit Magnet Mount Kit Magnet Mount Pan Bottom Vacuum-magnet Mount Kit Vibration Damping Mount Kit Magnet Cover Magnet Mount Kit Vacuum-magnet Mount Kit 3" Magnet	5315-MG 5135, 5150, 5315 & 5350 Series 5315-MG 5700 Series 5700 Series 2550, 2570, 2650, 2655, 2670, 2675, 9050, 9070, 6200, 6400, 6500, 6600 & 6900 Series 6520, 6524, 6530 & 6534 6500, 6600 & 6900 Series 2500, 2600, 2350, 9050, 9070, 5700, 6400, 6500, 6600, 6700, 6900 Series A6600MK 7400, 7600 Series 7400, 7600 Series A6600MK  
A5850TB A5850LB	DIN POLE MOUNTS T Bracket L Bracket	5810, 5815, 5850 5810, 5815, 5850  
R6520GA R6520FR R6600A R3700G R3730G R3800G	GASKETS Rubber Base Gasket Lens Flange Ring Adhesive Gasket Surface Mount Gasket Surface Mount Gasket Surface Mount Gasket	6520, 6524, 6530 & 6534 6520, 6524, 6530 & 6534 A6600MK 3710 Series 3730 Series 3800 Series
R2140GR R2160GO A3860ADPT	MOUNTING GROMMETS Round Oval Grommet Adapter	A9894, 2140 A9894, 2110, 2160, 3860 & 9007 3800 / 2100 Series  
A9894 A9895	GROMMET MOUNTING BOXES Round Oval	2140 2110, 2160, 3760, 3860 & 9006  

Bulbs / Tubes / LED Modules

PART NO.	DESCRIPTION	USED WITH
R5812BH R0002BH R5012BH R5024BH R3000BH R3000BI R3200BI	BULBS Halogen 12V H1 Halogen 12V H3 Halogen 12V Bayonet Halogen 24V Bayonet Halogen 12V Bayonet Incandescent 12V Incandescent 24V	5135, 5800, 60 Series rotators, Cleversectors™ Halogen lamp - R209-917 , Worklamp - R6002WL 5315, 5715, 20 / 30 / 70 Series rotators / 60 Series directional halogens 5315, 5725, 20 / 30 / 70 Series rotators 3015H, 3035H, 3055H 3015, 3035, 3055, 6320 3215, 3235, 3255  R5812BH
R6501FT R6200FT R6410FT R6411FT R9000FT R899-914	FLASHTUBES Helical (360° strobes) Linear (360° industrial strobe) 'U' (360° industrial strobe) Linear (360° industrial strobe) Helical (directional strobes) Linear	5150, 5350, 6000, 6500, 6600, 6700, 6900, 60 / 70 Series 360° strobes 6220, 6225, 6226 6410 6411 60 Series directional strobes 30 Series linear strobes  R6501FT  R6410FT  R6411FT
A109-924X A159-938X R109-924X R159-938X R109-938X R3300X R3400X	LED MODULES Front/Rear module w/pigtail (A, B, C, R) Corner module w/pigtail (A, B, C, R) Front/Rear module (A, B, C, R) Corner module (A, B, C, R) Corner cluster (A, B, C, R) Dir module (A, B, C, R) 12V Dir module (A, B, C, R) 24V	10 / 15 / 30 Series 10 / 15 Series 10 / 15 / 30 Series 10 / 15 Series 10 Series 3300 Series 3400 Series  R109-938X  R109-924X

Lamp Assemblies

PART NO.	DESCRIPTION	USED WITH
R5015MGA R5025MGA R5100RA R5800RA R6003RA R209-909 R209-908 R209-917 R209-918X R209-912 R209-913 R6004STT R6002WL	Motor gear rotator 12V Motor gear rotator 24V Belt drive rotator 12V Belt drive rotator 12V Belt drive rotator 12V Motor gear rotator 12V 90RPM Motor gear rotator 12V 150RPM Halogen Dir/Alley lamp (clear) Halogen lamp lens (A, B, R) Cleversector™ left 12V Cleversector™ right 12V STT Lamp Worklamp	5315, 5715, 70 Series 5725 5135 5800 Series 60 Series 20 / 30 Series 20 / 30 Series 10 / 15 / 20 / 30 Series 10 / 15 / 20 / 30 Series halogen lamp - R209-917 10 / 20 Series 10 / 20 Series 30 / 60 Series 30 / 60 Series  R209-908  R209-917  R6003RA  R209-913

Belts, Reflectors & Filters

PART NO.	DESCRIPTION	USED WITH
A5000FX R5100B R5101B R5100RF R5300RF R5800B R5801B	Rotator filter (A, B, R) Rotator belt (round) Rotator belt (twin curve flat) Rotator reflector Rotator reflector Rotator belt (round) Rotator belt (twin curve flat)	R5015MGA, 5315, 70 Series rotators R5100RA, R6003RA, 5135, 60 Series rotators R5100RA, R6003RA, 5135, 60 Series rotators R5100RA, R6003RA, 5135, 60 Series rotators R5015MGA, R5025MGA, 5315, 70 Series rotators R5800RA, 5800 Series R5800RA, 5800 Series

Cables, Plugs & Connectors

PART NO.	DESCRIPTION	USED WITH
R5135CP	17' Cigarette cord & plug	5135-VM, 5813-MG & 5813-VM
R5150CP	15' Cigarette cord & plug	5150-VM
R5180CP	15' Cigarette cord & plug w/switch	5186-VM & 5188-VM
R5300CP	17' Cigarette cord & plug	5315-MG & 5315-VM
R5700CP	17' Cigarette cord & plug	5350-VM, 5715 & 5725
R6600CP	15' Cigarette cord & plug	A6600MK, 6410MG, 6500, 6600, 6900 & 7900 Series
R3000FBK	12V Fuse plug assembly with bracket	3000, 3300, 3400 Series
R3012FPA	12V Fuse plug assembly	3000, 3300, 3400 Series (12V & 24V LED)
R3024FPA	24V Fuse plug assembly	3200 Series
R3015WA	15' Director wire assembly	3015, 3215, 3215H
R3035WA	35' Director wire assembly	3035, 3235, 3235H
R3055WA	55' Director wire assembly	3055
R3315WA	15' LED Director wire assembly	3315, 3415
R3335WA	35' LED Director wire assembly	3335, 3435
R3355WA	35' LED Director wire assembly	3355, 3455
R9000PCH	Power control harness	9200, 9400 Series
R2000WH	Wire harness	2000
R2102PA	2 wire plug	2140, 2160
A9000AMP	AMP superseal + pins	9200, 9400 Series



Branch Guards

PART NO.	DESCRIPTION	USED WITH
A6050BG	Low Profile	6550, 6650, 6750, 6950, 7160, 2550, 2650, 2655 & 9050
A6070BG	Medium Profile	6570, 6670, 6770, 6970, 7940, 7960, 2570, 2670, 2675 & 9070
A6090BG	High Profile	6690 & 6990
A6220BG		6200 Series
A6400BG		6400 Series
A6520BG	Low Profile - J-Bolt	6520 & 6524
A6530BG	Medium Profile - J-Bolt	6530 & 6534



Dust Covers

PART NO.	DESCRIPTION	USED WITH
A6050DC	Low Profile	6550, 6650, 6750, 6950, 2550, 2650, 2655 & 9050
A6070DC	Medium Profile	6570, 6670, 6690, 6770, 6970, 6990, 2570, 2670, 2675, 2690, 2695 & 9070



Lens Covers

PART NO.	DESCRIPTION	USED WITH
A6400HC	Half Lens Cover	6400 Series
A6600HT	Half Lens Cover	6500, 6600, 6700, 6900, 7900 Series
A6400BT	Black Top	6400 Series
A6501BT	Black Top	2550, 2570, 2650, 2670, 9050, 9070, 2600 Series



Dome Screws / Clips

PART NO.	DESCRIPTION	USED WITH
R109-927	Lens retaining clip small	10 / 15 Series
R209-927	Lens retaining clip large	10 / 20 / 30 Series
R109-942	Lens retaining screw	10 Series
R159-942	Lens retaining screw	15 Series
R309-942	Lens retaining screw	30 Series
R209-921	Lens joining clip	10 / 15 / 20 / 30 Series
R0004	End cap	60 / 70 Series
R0005	Baffle-amber	70 Series
R0006	Baffle-clear	70 Series
R0007	Baffle-amber	60 Series
R0008	Baffle-clear	60 Series



Switches & Control Boxes

PART NO.	DESCRIPTION	USED WITH
A9000	Switchbox - 6 switch 12V	 A9000  A9891 & A9893 Depicted  R3000CB  RM4DIRC
A9901	Illuminated 12V	
A9891	Illuminated 12V-Amber-SPST	
A9892	Illuminated 24V-Amber SPST	
A9902	Bracket - end section	
A9903	Bracket - center section	
A9904	Bracket mounting kit	
A9893	Switch panel - single slot	
R3000CB	Director Controller	
R3300CB	LED Director Controller	
RM4DIRC	Director Controller (LED/Halogen)	

Signal Bars

PART NO.	DESCRIPTION	USED WITH
R3015LB	With 15' cable, Incandescent 12V	 R3015LB  R3315LB
R3215LB	With 15' cable, Incandescent 24V	
R3015HLB	With 15' cable, Halogen 12V	
R3315LB	With 15' cable, LED 12V	
R3415LB	With 15' cable, LED 24V	
R3235LB	With 35' cable, Incandescent 12V	
R3035LB	With 35' cable, Incandescent 24V	
R3035HLB	With 35' cable, Halogen 12V	
R3335LB	With 35' cable, LED 12V	
R3435LB	With 35' cable, LED 24V	
R3055LB	With 55' cable, Incandescent 12V	
R3055HLB	With 55' cable, Halogen 12V	
R3355LB	With 55' cable, LED 12V	
R3455LB	With 55' cable, LED 24V	
R3000EC	End Cap	

Countertop Displays

PART NO.	DISPLAY INCLUDES				
POP-1	Display without product				
	QTY				
CP505	12	505	87 dB(A)	12-24V	Back-Up Alarms
CP510	12	510	97 dB(A)	12V	Back-Up Alarms
CP520	12	520	97 dB(A)	12-24V	Back-Up Alarms
CP530	12	530	102 dB(A)	12-24V	Back-Up Alarms
CP580	12	580	87 dB(A)	12-80V	Back-Up Alarms
CP585	12	585	97 dB(A)	12-48V	Back-Up Alarms
CP950	12	SA950	82-102 dB(A)	12-24V	Smart Alarms
CP951	12	SA951	77-97 dB(A)	12-48V	Smart Alarms



POP-1 Depicted
(supplied without product)



CP510 Depicted



POP-GON-KIT2 Depicted

Gondola Display Kits

PART NO.	DISPLAY INCLUDES				RECOMMENDED PRODUCTS
	ALARM BRACKETS	LIGHT BRACKETS	SPOOLS	OTHER ITEMS	
POP-GON-KIT1	1-with off-on switch 1-with momentary on-off switch	3-with off-on switches 1-with cigarette lighter socket	1-red wire 1-black wire	1-crimp tool 1- assorted terminals	510 6770A SA901 5135A-VM 5813A-MG
POP-GON-KIT2	2-with off-on switch 2-with momentary on-off switch	4-with off-on switches 1-no switch 1-with cigarette lighter socket	1-red wire 1-black wire	1-crimp tool 1- assorted terminals	510 5813A-MG 5135A-VM 530 6570A SA901 6770A 3810A 6650A
POP-GON-KIT3	2-with off-on switch 2-with momentary on-off switch	6-with off-on switches 2-no switch 2-with cigarette lighter socket	1-red wire 1-black wire	1-crimp tool 1- assorted terminals	510 5813A-MG 5135A-VM 530 6570A 5150CAA SA901 6650A 3810A 6770A
PART NO.	DESCRIPTION				
POP-LED-KIT	Allows mounting of 3700/3800 Series LEDs on alarm brackets supplied with gondola kits				
EC20	Converter 110 VAC to 12 VDC				

► Gondolas, display merchandise and power supply (EC20) not included with kits.

BEACONS - LED

Product	PG#	SAE	VDC	Amps	Watts	Joules				Flashes Per Min				Dimensions (Dia X H)	Mounting	War- ranty	Base Material
						Sgl	Dbl	Tpl	Quad	Sgl	Dbl	Tpl	Quad				
7160	3	1	12-24	3.2	-	-	-	-	-	Varies				6.5 x 3.9	3 Bolt/1" Pipe/Vac Mag	5 yrs	Aluminum
7460	4	1	12-36	1.0	-	-	-	-	-	75 Pulse8				6.4 x 3.1	3 Bolt/1" Pipe/Vac Mag	5 yrs	Nylon
7660	5	1	12-24	1.7	-	-	-	-	-	125 Rotate				6.3 x 6.2	3 Bolt/Vac Mag	5 yrs	Aluminum
7940	7	2	12-24	1.5	-	-	-	-	-	80	-	65		6.5 x 5.5	3 Bolt/1" Pipe/Vac Mag	5 yrs	Aluminum
7960	6	1	12-24	3.7	-	-	-	-	-	80	-	65		6.5 x 5.5	3 Bolt/1" Pipe/Vac Mag	5 yrs	Aluminum
6260/6266	16	-	12-80	0.2	-	-	-	-	-	70 Pulse8				3.4 x 4.9	2 bolt / 1/2" Pipe	5 yrs	Nylon
6460	14	-	12-80	0.3	-	-	-	-	-	45 Pulse8 / 120 Rotate				5.1 x 3.8	3 Bolt/Magnet	5 yrs	Nylon

BEACONS - STROBE

Product	PG#	SAE	VDC	Amps	Watts	Joules				Flashes Per Min				Dimensions (Dia X H)	Mounting	War- ranty	Base Material
						Sgl	Dbl	Tpl	Quad	Sgl	Dbl	Tpl	Quad				
6900 Smart	8	1-2	12-24	2.9	35	-	10-15	-	16-20	-	75	-	65	6.5 x 4.8, 6.7 or 7.9	3 Bolt / 1" Pipe	2 yrs	Aluminum
6900 Double/Quad	9	1	12-24	2.9	35	-	15	-	20	-	75	-	65	6.5 x 4.8, 6.7 or 7.9	3 Bolt/1" Pipe/Vac Mag	2 yrs	Aluminum
6710/6720	10	2	12-48	1.5	18	-	7	-	10	-	75	-	65	6.5 x 4.8 or 6.7	3 Bolt / 1" Pipe	2 yrs	Nylon
6750/6770	10	2	12-24	2.5	23	-	10	-	16	-	75	-	65	6.5 x 4.8 or 6.7	3 Bolt / 1" Pipe	2 yrs	Aluminum
6600 Smart	11	2	12-24	2.1	25	-	8-13	-	12-17	-	65	-	60	6.5 x 4.8, 6.7 or 7.9	3 Bolt / 1" Pipe	2 yrs	Aluminum
6600 Double/Quad	11	2	12-24	2.1	25	-	8 or 13	-	12 or 17	-	65	-	60	6.5 x 4.8, 6.7 or 7.9	3 Bolt/1" Pipe/Magnet	2 yrs	Aluminum
6500 Series	12	2	12-48	1.5	18	-	7	-	10	-	80	-	65	6.5 x 4.8 or 6.7	3 Bolt/1" Pipe/Vac Mag	2 yrs	Nylon
6520/6530 (J-Bolt)	13	2	12-48	1.5	12	5	7	-	-	80	80	-	-	6.5 x 5.5 or 7.4	J-Bolt/Flush/Mag/3/4" & 1" Pipe	2 yrs	Aluminum
6400/6410	15	-	12-80	0.3	3.5	1.5	-	-	-	70	-	-	-	5.1 x 3.8	3 Bolt/Magnet	6 mo/2 yrs	Nylon
6200	17	-	12-80	0.3	4.0	1.5	-	-	-	85	-	-	-	3.4 x 5.5	2 Bolt	5 yrs	Nylon
6225/6226	17	-	12-80	0.5	6.5	2	-	-	-	85	-	-	-	3.4 x 5.5	2 Bolt / 1/2" Pipe	5 yrs	Nylon

BEACONS - ROTATOR

Product	PG#	SAE	VDC	Amps	Watts	Joules				Flashes Per Min				Dimensions (Dia X H)	Mounting	War- ranty	Base Material
						Sgl	Dbl	Tpl	Quad	Sgl	Dbl	Tpl	Quad				
5800 Series	18	1	12	5.2	65	-	-	-	-	160 Rotate				6.0 x 5.7 or 7.0	3 Bolt/1 Bolt Flexi Pole/Magnet	1 yr	Polycarbonate
5700 Series	20	1	12 or 24	2.0/4.4	50	-	-	-	-	135 Rotate				7.6 x 6.9	3 Bolt/1" Pipe/Vac Magnet	2 yrs	Nylon

MINIBARS - LED

Product	PG#	SAE	VDC	Amps	Watts	Joules		FPM Per Module/Total		Dimensions (L x W x H)	Mounting	War- ranty	Base Material
						Dbl	Quad	Dbl	Quad				
15-00011	31	-	12	0.8	10	-	-	-	80	23.2 x 12.2 x 2.1	Permanent	5 yrs	Aluminum
15-00013	31	-	12	1.2	14	-	-	-	80	23.2 x 12.2 x 2.1	Permanent	5 yrs	Aluminum
15-00015	31	-	12	1.6	19	-	-	-	80	23.2 x 12.2 x 2.1	Permanent	5 yrs	Aluminum
15-00019	31	-	12	2.0	24	-	-	-	80	23.2 x 12.2 x 2.1	Permanent	5 yrs	Aluminum
5008	35	-	12	2.0	32	-	-	Varies	Varies	16.9 x 7.9 x 3.75	Permanent / Magnet	2 yrs	Nylon
5010	35	-	12	3.2	32	-	-	Varies	Varies	16.9 x 7.9 x 3.75	Permanent / Magnet	2 yrs	Nylon
5186	38	1	12	1.2	12	-	-	-	80/480	15.8 x 8.3 x 4.5	Permanent / Vacuum Magnet	5 yrs	Polycarbonate
5188	38	1	12	1.6	12	-	-	-	80/480	15.8 x 8.3 x 4.5	Permanent / Vacuum Magnet	5 yrs	Polycarbonate
5280	39	1	12-24	2.6	12-24	-	-	-	120/360	13.3 x 6.3 x 5.8	Permanent	5 yrs	Aluminum

MINIBARS - STROBE

Product	PG#	SAE	VDC	Amps	Watts	Joules		FPM Per Module/Total		Dimensions (L x W x H)	Mounting	War- ranty	Base Material
						Dbl	Quad	Dbl	Quad				
60 Series 22" Strobe	33	2	12-24	3.8	46	13	15	70/280	65/260	22 x 8.3 x 4.3	Permanent	2 yrs	Aluminum
70 Series 22" Strobe	35	2	12-48	3	36	7	10	80/320	65/260	22 x 8.3 x 5.8	Permanent	2 yrs	Aluminum
5150 Series	37	2	12-24	3.8	46	13	15	70/280	65/260	15.8 x 8.3 x 4.5	Permanent / Vacuum Magnet	2 yrs	Polycarbonate
5350 Series	41	2	12-28	3	36	7	10	80/320	65/260	15.8 x 8.3 x 5.8	Permanent / Vacuum Magnet	2 yrs	Polycarbonate

MINIBARS - ROTATOR

Product	PG#	SAE	VDC	Amps	Watts	Joules		FPM Per Module/Total		Dimensions (L x W x H)	Mounting	War- ranty	Base Material
						Dbl	Quad	Dbl	Quad				
60 Series 22" Rotator	32	1	12	10.5	122	-	-	-	160/640	22 x 8.3 x 4.3	Permanent	2 yrs	Aluminum
70 Series 22" Rotator	34	1	12	8.6	102	-	-	-	100/400	22 x 8.3 x 5.8	Permanent	2 yrs	Aluminum
5135 Series	36	1	12	10.5	122	-	-	-	160/480	15.8 x 8.3 x 4.5	Permanent / Vacuum Magnet	2 yrs	Polycarbonate
5315 Series	40	1	12 or 24	8.6	102	-	-	-	100/300	15.8 x 8.3 x 5.8	Permanent / Magnet/ Vacuum Magnet	2 yrs	Polycarbonate

SAFETY DIRECTOR™ SYSTEMS

Product	PG#	SAE	VDC	Amps	Flash Patterns			Light Source	War- ranty
3015H/3035H/3055H	42	2	12	18	Left Arrow/Arrow Solid, Right Arrow/Arrow Solid, Center Out/Out Solid, Wig Wag, Single			Halogen	2 yrs
3015/3035/3055	42	2	12	18	Left Arrow/Arrow Solid, Right Arrow/Arrow Solid, Center Out/Out Solid, Wig Wag, Single			Incandescent	2 yrs
3315/3335/3355	43	1	12	7	Left Arrow/Arrow Solid, Right Arrow/Arrow Solid, Center Out/Out Solid, Wig Wag, Single			LED	2 yrs

LED DIRECTIONAL LIGHTS

Product	PG#	SAE	VDC	Amps	LEDs	Flash Patterns	Dimensions (L x W x H)	Mounting	War- ranty	Base Material
3510	44	1	12	0.75	24 1-watt	16 - single, dbl, tple, quad, deci & cycle	3.3 x 1.1 x 0.4	Surface	5 yrs	Polycarbonate
3600 Single	45	1	12 or 24	0.3 or 0.2	4 1-watt	Steady burn, dbl, fast dbl, quad & quint	5.2-6.3 x 2.9-4.4 x 2.1-1.4	Grille/Deck/Dash/or Window	5 yrs	Aluminum
3600 Twin	45	1	12 or 24	0.6	8 1-watt	Steady burn, dbl, fast dbl, quad & quint	5.2-10.3 x 2.9-4.4 x 2.1-1.4	Grille/Deck/Dash/or Window	5 yrs	Aluminum
3730	47	2	12-24	0.2	3 1-watt	14 - 3 integral alternating flash modes	3.7 x 1.5 x 1.3	Surface	5 yrs	Aluminum
3710	46	1	12	0.3	4 1-watt	Steady burn, dbl, fast dbl, quad & quint	5.1 x 1.48 x 1.5	Surface	5 yrs	Aluminum
3760	46	1	12	0.3	4 1-watt	Steady burn, dbl, fast dbl, quad & quint	6.5 x 1.2 x 2.1	Grommet	5 yrs	Aluminum
3810	48	1	12	0.9	42 ¼-watt	Quad	5.9 x 1.2 x 2.1	Surface	5 yrs	Polycarbonate
3860	48	1	12	0.9	42 ¼-watt	Quad	6.5 x 1.2 x 2.1	Grommet	5 yrs	Polycarbonate
3945	49	1	12	0.5	52 ¼-watt	8 - sngl, slow sngl, fast sngl, dbl, fast dbl, quad, quint, warp	4 Dia x 1.25	Grommet	5 yrs	ABS
3965	49	1	12	0.5	57 ¼-watt	8 - sngl, slow sngl, fast sngl, dbl, fast dbl, quad, quint, warp	6.4 x 2.2 x 1.5	Grommet	5 yrs	ABS
9010	50	-	12	0.2-0.5	4 1-watt	16 - single, dbl, tple, quad, deci & cycle	1.5 Dia x 1.63	Headlight / Taillight	5 yrs	Nickel
9011	50	-	12	0.2-0.5	4 1-watt	16 - single, dbl, tple, quad, deci & cycle	1.5 Dia x 1.06	Headlight / Taillight	5 yrs	Nickel
9012	51	-	12-24	0.6-1.25	6 1-watt	16 - single, dbl, tple, quad, deci & cycle	1.6 Dia x 1.1	Headlight / Taillight	5 yrs	Nickel
9021	50	-	12	0.4-1.0	8 1-watt	16 - single, dbl, tple, quad, deci & cycle	1.5 Dia x 1.06	Headlight / Taillight	5 yrs	Nickel
9031	50	-	12	0.2-0.5	4 1-watt	16 - single, dbl, tple, quad, deci & cycle	1.09 Dia x 1.34	Headlight / Taillight	5 yrs	Nickel

CAMERA SYSTEMS

Product	PG#	VDC	Monitor	Camera	Cable	Controller	Expandable	Split Screen	Audio	Infrared	Color vs B&W
K3500	75	12-24	M3500	C2004	TC05	-	Up to 2 cameras	No	No	No	Color
K5600	76	12-24	M5600	C2000	TC20	-	Up to 2 cameras	No	Yes	18 IR LEDs	Color
K5601	77	12-24	M5601	C2000	TC20	CB40	Up to 4 cameras	No	Yes	18 IR LEDs	Color
K5602	77	12-24	M5600	C1000	TC20	-	Up to 2 cameras	No	Yes	18 IR LEDs	B&W
K7000	78	12-24	M7000	C2000	TC20	-	Up to 2 cameras	No	Yes	18 IR LEDs	Color
K7001	79	12-24	M7001	C2000	TC20	CB40	Up to 4 cameras	No	Yes	18 IR LEDs	Color
K7002	81	12-24	M7001	C2000	TC20	CB41	Up to 4 cameras	Yes	Yes	18 IR LEDs	Color

BACK-UP ALARMS - FIXED dB(A)

Product	PG#	SAE	dB(A)	VDC	Amps	Connection		Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
						STUD	WIRE			
210	65	C	97	12	0.1	•		4.5 x 1.3 x 4.5	2 years	Nylon
410	63	C	97	12-36	0.1		•	4.4 x 2.8	ECCOLIFE	Nylon
415	62	C	97	12-24	0.2		•	4.1 x 1.7	2 years	Nylon
435	62	F	102	12-24	0.3		•	4.1 x 1.7	2 years	Nylon
450	63	A	112	12-36	0.4		•	4.4 x 2.8	ECCOLIFE	Nylon
505	64	D	87	12-24	0.1	•		4.0 x 1.6 x 2.8	2 years	Nylon
510	64	C	97	12	0.2	•		4.0 x 1.6 x 2.8	2 years	Nylon
520	64	C	97	12-24	0.2	•		4.0 x 1.6 x 2.8	2 years	Nylon
530	64	F	102	12-24	0.2	•		4.0 x 1.6 x 2.8	2 years	Nylon
575	65	B	107	12-24	0.3		•	4.0 x 1.6 x 2.8	2 years	Nylon
580	64	D	87	12-80	0.1	•		4.0 x 1.6 x 2.8	2 years	Nylon
585	64	C	97	12-48	0.1	•		4.0 x 1.6 x 2.8	2 years	Nylon
610	66	C	97	12-36	0.1		•	5.0 x 2.8 x 3.0	ECCOLIFE	Steel
630	66	B	107	12-36	0.4		•	5.0 x 2.8 x 3.0	ECCOLIFE	Steel
830	68	B	107	12-36	0.4		•	5.8 x 3.1 x 4.0	ECCOLIFE	Steel
850	68	A	112	12-36	0.4		•	5.8 x 3.1 x 4.0	ECCOLIFE	Steel
876	69	A	112	12-36	0.4		•	7.1 x 3.1 x 4.0	ECCOLIFE	Steel

BACK-UP ALARMS - SMART ALARMS (SELF ADJUSTING)

Product	PG#	SAE	dB(A)	VDC	Amps	Connection		Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
						STUD	WIRE			
SA901	61 & 66	F	82-107	12-24	0.3		•	5.0 x 2.8 x 3.0	ECCOLIFE	Steel
SA914	61 & 69	F	87-112	12-24	0.4		•	7.1 x 3.1 x 4.0	ECCOLIFE	Steel
SA917	61 & 68	F	87-112	12-24	0.4		•	5.8 x 3.1 x 4.0	ECCOLIFE	Steel
SA920	61 & 67	F	97-112	12-24	0.6	•		7.1 x 4.0 x 3.3	2 years	Nylon
SA931	61 & 66	F	82-102	12-48	0.2		•	5.0 x 2.8 x 3.0	ECCOLIFE	Steel
SA940	61 & 63	F	87-112	12-24	0.6		•	4.4 x 2.8	ECCOLIFE	Nylon
SA950	60 & 64	F	82-102	12-24	0.4	•		4.0 x 1.6 x 2.8	2 years	Nylon
SA951	60 & 64	F	77-97	12-48	0.2	•		4.0 x 1.6 x 2.8	2 years	Nylon
SA955	60 & 62	F	82-102	12-24	0.4		•	4.1 x 1.7	2 years	Nylon
SA980	61 & 66	F	82-102	36-80	0.2		•	5.0 x 2.8 x 3.0	ECCOLIFE	Steel

BACK-UP ALARMS - MANUALLY ADJUSTABLE

Product	PG#	SAE	dB(A)	VDC	Amps	Connection		Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
						STUD	WIRE			
820	68	B/D	87-107	12-36	0.4		•	5.8 X 3.1 X 4.0	ECCOLIFE	Steel
840	68	A/C	97-112	12-36	0.4		•	5.8 X 3.1 X 4.0	ECCOLIFE	Steel
872	69	A/C	97-112	12-36	0.4		•	7.1 X 3.1 X 4.0	ECCOLIFE	Steel
777	67	A/B/C	97-107-112	12-24	0.5	•	•	5.8 X 4.0 X 3.3	2 years	Nylon

BEACONS

5715	20	15-00037-E	24	6221009	33	9920	55	CB20	82
5715-VM	20	15-00038-E	24	6363001	28	9925	55	CB40	82
5810	18	15-00039-E	24	6363003	28	9935(S)	55	CB41	82
5813	18	20-00042-E	25	6483001	28	9950(S)	55	DVR04A	82
5813-MG	18	20-00044-E	25	6483002	28	BACK-UP ALARMS		K3500	75
5815	18	20-00177-E	25	6483003	28	210	65	K5010	75
5840	19	20-00178-E	25	6483011	28	410	63	K5600	76
5850	19	30-00012-E	26	6543001	29	415	62	K5601	77
6220	17	30-00052-E	26	6543002	29	435	62	K5602	77
6225	17	30-00053-E	26	6543018	29	450	63	K7000	78
6226	17	30-00054-E	26	6543020	29	505	64	K7001	79
6260	16	30-00058-E	26	6543050	29	510	64	K7002	81
6266	16	30-00079-E	27	6545001	29	520	64	M500	80
6400	15	30-00081-E	27	6603003	29	530	64	M3500	80
6410	15	30-00082-E	27	6603060	29	575	65	M5600	80
6410-MG	15	30-00106-E	27	6605003	29	580	64	M5601	80
6460	14	30-00107-E	27	6605004	29	585	64	M7000	80
6460-MG	14	30-00110-E	27	6605005	29	610	66	M7001	80
6520	13	30-00116-E	27	6605055	29	630	66	ACCESSORIES & REPLACEMENT PARTS	
6530	13	5008	35	SAFETY DIRECTOR™		777	67	All Product Lines 84-90	
6550	12	5008-MG	35	3015	42	820	68		
6550-VM	12	5010	35	3015H	42	830	68		
6570	12	5010-MG	35	3035	42	840	68		
6570-VM	12	5135	36	3035H	42	850	68		
6650	11	5135-VM	36	3055	42	872	69		
6650-MG	11	5150	37	3055H	42	876	69		
6655	11	5150-VM	37	3315	43	SA901	61 & 66		
6670	11	5186	38	3335	43	SA914	61 & 69		
6670-MG	11	5186-VM	38	3355	43	SA917	61 & 68		
6675	11	5188	38	LED DIRECTIONAL LIGHTS		SA920	61 & 67		
6690	11	5188-VM	38	3510	44	SA931	61 & 66		
6695	11	5280	39	3610	45	SA940	61 & 63		
6710	10	5221001	34	3615	45	SA950	60 & 64		
6720	10	5221002	34	3630	45	SA951	60 & 64		
6750	10	5221003	34	3635	45	SA955	60 & 62		
6770	10	5221004	34	3710	46	SA980	61 & 66		
6950	9	5221005	34	3730	47	WARNING ALARMS, SWITCHES & SENSORS			
6950-VM	9	5315	40	3760	46	110-000	71		
6955	8	5315CAA	40	3810	48	111-000	71		
6970	9	5315CAA-VM	40	3860	48	112-001	73		
6970-VM	9	5315-MG	40	3945	49	112-002	73		
6975	8	5315-VM	40	3965	49	201120	72		
6990	9	5350AAA	41	9010	50	202110	72		
6995	8	5350AAA-VM	41	9011	50	202120	72		
7160	3	5350ACC	41	9012	51	204120	72		
7160-VM	3	5350ACC-VM	41	9021	50	208120	72		
7460	4	5350CAA	41	9031	50	209120	72		
7460-VM	4	5350CAA-VM	41	LIGHTING SYSTEMS		CT530-2LDW	70		
7660	5	5350CAC	41	2000	56	DF532	70		
7660-VM	5	5350CAC-VM	41	2110	57	DS-1500	72		
7940	7	5362001	30	2140	57	DT500	71		
7940-VM	7	5362002	30	2550	57	DT500FP-LWC	71		
7960	6	5363001	30	2570	57	FH575	70		
7960-VM	6	5450AAA	34	9001	55	FH577	70		
LIGHTBARS / MINIBARS		5450ACC	34	9006	55	MS90	71		
10-00047-E	23	5450CAA	34	9007	55	SW10	73		
10-00048-E	23	5450CAC	34	9050	55	SW15	73		
10-00049-E	23	5483001	30	9070	55	SW30	73		
10-00051-E	23	5483004	30	9230	52	CAMERA SYSTEMS			
15-00011-E	31	6221001	32	9230-X	52	C101	81		
15-00013-E	31	6221002	32	9460	53	C1000	81		
15-00015-E	31	6221003	32	9460-X	53 & 55	C2000	81		
15-00019-E	31	6221004	32	9660	54	C2002	81		
15-00035-E	24	6221005	33	9660-X	54	C2003	81		
15-00036-E	24	6221006	33	9915(S)	55	C2004	81		
		6221007	33	9915AMP	55				



Local Presence in Global Markets

ECCO Group Facts

- ECCO started in 1972
- Current leadership since 1985
- ECCO Group Headquarters located in Boise, Idaho
- North American Emergency Services Division located in Colchester, Connecticut.
- European Division located in Leeds, England
- Pacific Asia Division located in Launceston, Tasmania
- ECCO Group formed in 2004
- 80% of ECCO's revenue comes from products introduced since 1998
- World's largest manufacturer of back-up alarms
- World's largest manufacturer of amber warning lights and back-up alarms combined
- Industry leader in innovation and new products
- World's most complete range of emergency warning products for commercial vehicles
- Serving over 1000 distributors globally
- Supplying over 500 vehicle manufacturers worldwide

Industry "Firsts"

- First company founded to specifically manufacture back-up alarms
- First manufacturer of amber warning lights and back-up alarms to be registered to ISO 9001 international quality standards
- The Smart Alarm® was the first self-adjusting back-up alarm
- The Smart Strobe® was the first self-adjusting strobe beacon
- First flush mounted back-up alarm in a standard 4.5" lighting grommet
- First Reverse Motion Sensor that activates the alarm every time vehicles move backward . . . in any gear . . . ignition on or off
- First company to offer life of the vehicle warranty on heavy duty back-up alarms
- First single unit back-up alarm and first single unit strobe light to cover 12-80 VDC range
- First strobe light with field-selectable flash rate and light intensity adjustment
- The Navigator® was the first remote system to integrate LED and strobe warning lights and the first LED warning system for vehicles
- First back-up alarms to be AMECA certified to SAE standards
- i.beam® was the first strobe beacon with a diagnostic signal to replace the flash tube

ECCO Group Headquarters
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Leeds, England



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