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 service of outstanding value; so outstanding that you are delighted by every contact with our people and products.

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

Whether you are an old friend or a first-time buyer, you have our word that we are totally committed to exceeding your expectations. If we ever fall short, please let us know.

President & Chief Operating Officer

Chris Thompson

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

Contents

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.

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.

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 LED

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 LED

Page 4

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

7600 Series
ROTOLED LED

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 LED

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 / ¾" Pipe / 1" Pipe
► Single/Double or Triple/Quad
► 2 year warranty

6400 Series
LED

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
LED

Page 16 & 17

► CE, e, UL
► 12-80 VDC
► 2 Bolt / ½" 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
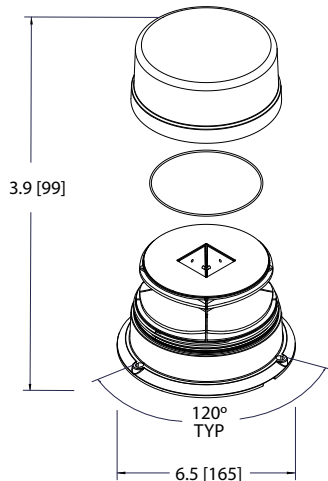► 160 FPM Belt Drive Rotator
► 1 year warranty

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

REFLEX™ – 7160 Series
SAE Class I LED

3.9 [99]

120°
TYP

6.5 [165]

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)

NEW

7160CX-VM

7160A

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			

PART NO.	VOLTAGE	COLOR		AMPS	FPM	VACUUM MAGNET
		LENS	ILLUMINATION			
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 - PR☉FILE™
SAE Class I LED

NEW

7460CX-VM

7460A

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

3.1 [79]

120° TYP

6.4 [163]
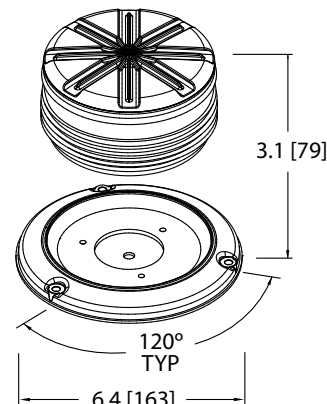
• Detachable flange design allows easy and unobtrusive pole mounting. Pole not included. See page 21.
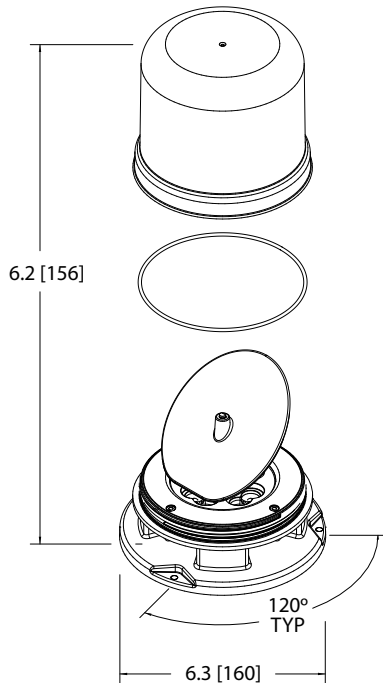
Replace X in part number with desired lens or LED color: A = amber, B = blue, C = clear, G = green, R = red

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)

ROTO**LED**™ - 7660 Series
SAE Class I LED Hybrid

NEW

7660CC-VM

7660A

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.

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

6.2 [156]

120° TYP

6.3 [160]

45º 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
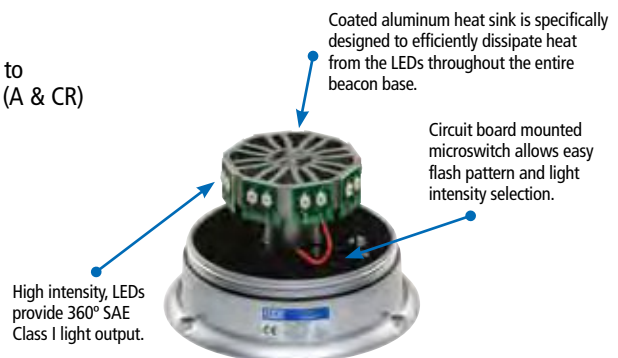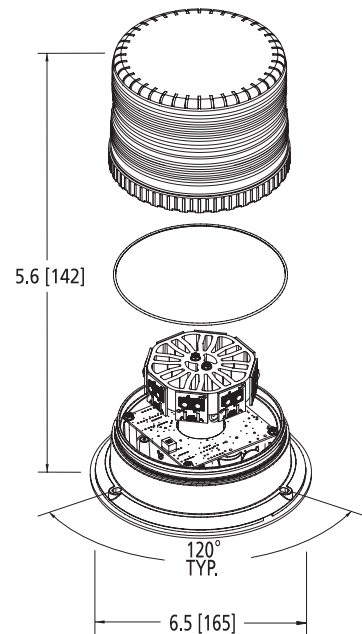
5.6 [142]

120° TYP.

6.5 [165]

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

Circuit board mounted microswitch allows easy flash pattern and light intensity selection.

High intensity, LEDs provide 360° SAE Class I light output.

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

Pulse® - Double / Quad Flash

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	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.

5.6 [142]

120° TYP.

6.5 [165]

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

pulse® - 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.

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			
						VACUUM MAGNET
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

High 6990A

Low 6950A

Medium 6970A-VM

I.beam®

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

120° TYP.
6.5 [165]
Low: 4.8 [121]
Med: 6.7[170]
High: 7.9 [200]
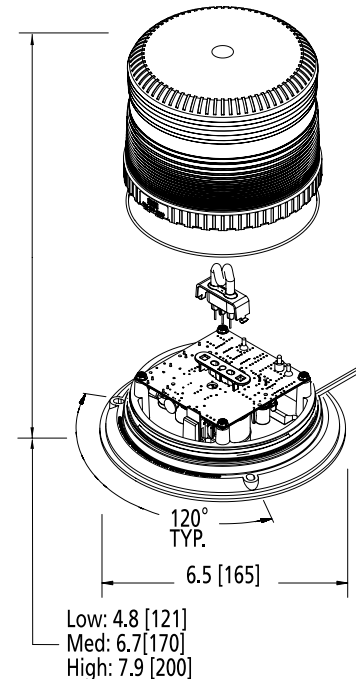
i.Beam® on-board LED diagnostic indicator constantly monitors circuit board and flashtube operation. LED illuminates on each flash cycle enabling easy flashtube fault detection.

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

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.

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

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

Smart Strobe®   i.beam® 1 2 ™

3 BOLT FLANGE / 1" PIPE	PART NO.	PROFILE	VOLTAGE	AMPS	JOULES	FPM
Low Medium High	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.

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	High Medium Low
6970X	MEDIUM					
6990X	HIGH					
						VACUUM MAGNET
6950X-VM	LOW	12-24	2.9	15	75 Double	Medium Low
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

Medium 6770A

Low 6710A

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
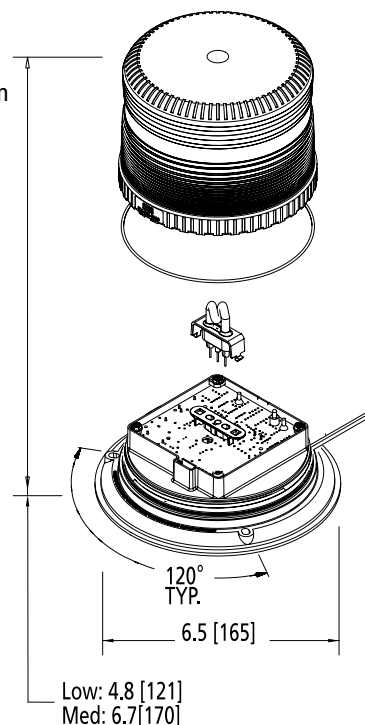
120°
TYP.

6.5 [165]

Low: 4.8 [121]
Med: 6.7 [170]

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	**6750X**	LOW	12-24	2.3	10 Double or 16 Quad	75 Double or 65 Quad
i.beam® Low Medium	**6770X**	MEDIUM				
REINFORCED NYLON BASE						
3 BOLT FLANGE / 1" PIPE	**6710X**	LOW	12-48	1.5	7 Double or 10 Quad	75 Double or 65 Quad
Low Medium	**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

120°
TYP.
6.5 [165]
Low: 4.8 [121]
Med: 6.7 [170]
High: 7.9 [200]

6600 Series
SAE Class II Strobe

High 6690A

Medium 6670A

Low 6650A-MG

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.

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

Smart Strobe®

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

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

Double/Quad Flash: Flash Intensity and Double or Quad flash mode are user selectable via on-board switch.
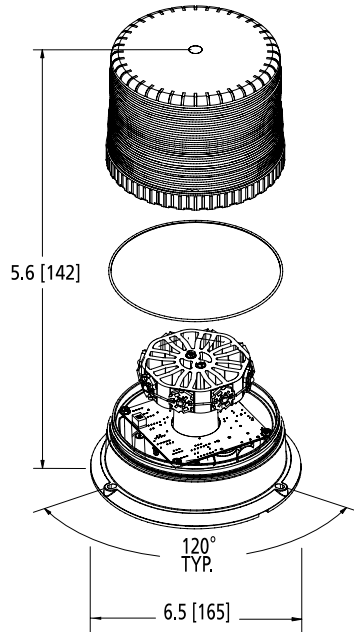
6500 Series
SAE Class II Strobe

Medium 6570A

Low
6550A-VM

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

120°
TYP.

6.5 [165]

Low: 4.8 [121]
Med: 6.7 [170]
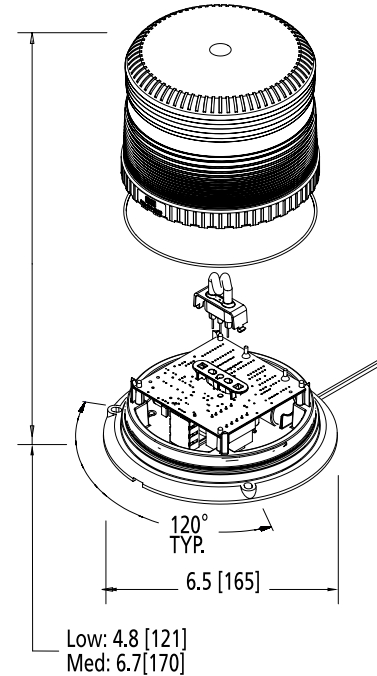
Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

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 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

PROFILE	AMBER	BLUE	CLEAR	GREEN	RED
LOW	R6050LA	R6050LB	R6050LC	R6050LG	R6050LR
MEDIUM / HIGH	R6070LA	R6070LB	R6070LC	R6070LG	R6070LR

Flashtube

PART NO.
R6501FT

5.7 [144]

6.7 [170]

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, **ᴙᵁ**®

6500 J-Bolt
SAE Class II Strobe

Medium 6530A

Low 6520A

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				

Medium Low

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	Magnet Mount Base	3/4" Pipe Mount Base	1" Pipe Mount Base
A6520FM	**A6520MG**	**A6520PM**	**A6521PM**

6460 Series
Low Intensity LED
Industrial Applications

NEW

6460A-MG

ECCO's maintenance free 6460 Series LED Beacon features 30 ¼-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 ¼-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: -22ºF - +122ºF
(-30ºC - +50ºC)

Approvals

► CE, e, **ℝ**®

3.9 [99]

120º
TYP

5.1 [130]

30 ¼-watt LEDs

Reinforced nylon base.

On-board jump pins allow easy flash pattern selection.
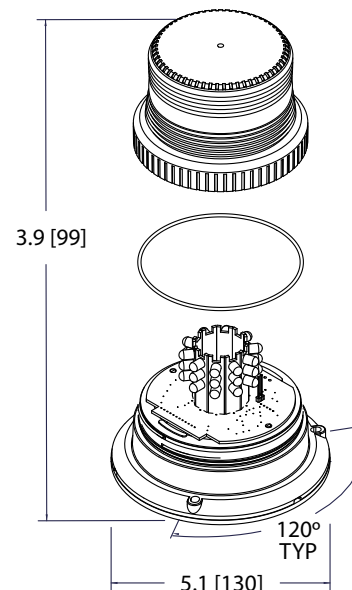
Replace X in part number with desired color:
A = amber, B = blue, C = clear, G = green, R = red

Pulse8 / Rotating Flash

3 BOLT FLANGE	PART NO.	VOLTAGE	AMPS	FPM
	6460X	12-80	0.3	45 Pulse8 or 120 Rotating
MAGNET	**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
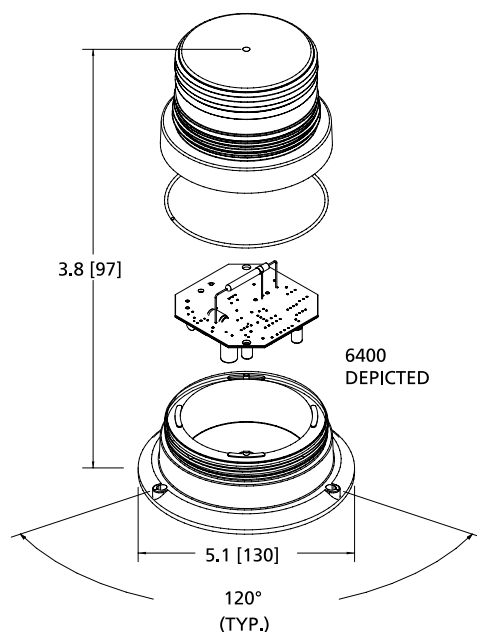
3.8 [97]

6400
DEPICTED

5.1 [130]

120°
(TYP.)

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, **ЯU**®

6410A

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

PART NO.	FLASHTUBE	VOLTAGE	AMPS	JOULES	FPM	3 BOLT FLANGE
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

6260A

6266A

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, **ℜℐ**®

► IP Rating 66/67

6260: 4.9 [124]
6266: 4.9 [124]

3.9 [98]

3.4 [86]

6260

Ø 2.8 [71]

6266

Three 3-watt LEDs mounted at 120° to each other provide excellent visibility.

Powder coated extruded aluminum heat sink efficiently dissipates heat from the LED.

Reinforced nylon base is epoxy filled for environmental protection.
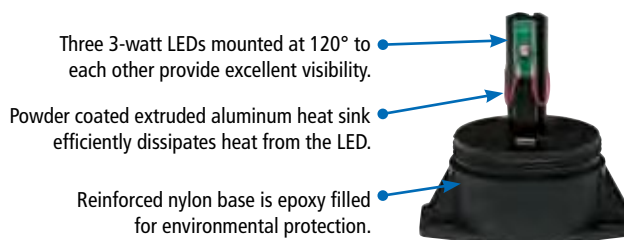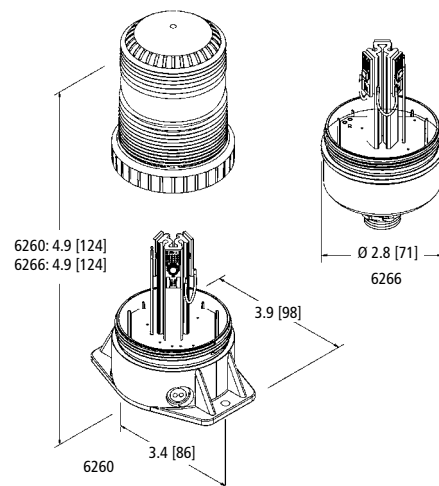
Replace X in part number with desired color:
A = amber, R = red

Pulse8 Flash

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

Pulse8 Flash: 8 flashes per cycle (70FPM)
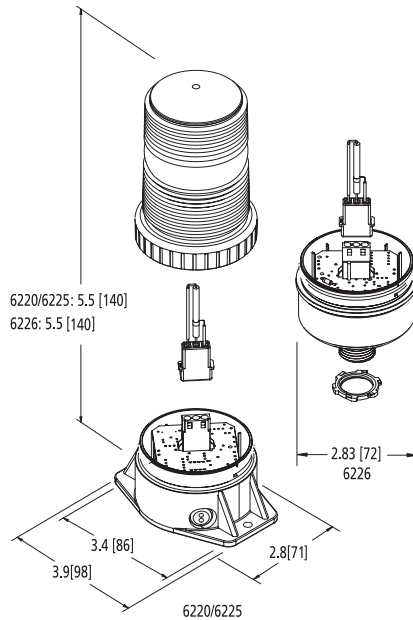
Features

► 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, **ℜ⅃**

► IP Rating 66/67

6200 Series
Low Intensity Strobe
Industrial Applications

6225A

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.

6220/6225: 5.5 [140]
6226: 5.5 [140]
2.83 [72] 6226
3.4 [86]
3.9[98]
2.8[71]
6220/6225

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	2 BOLT
6220X	12-80	0.3	1.5	85 Single	
6225X		0.5	2		
6226X	12-80	0.5	2	85 Single	½" 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

5813A-MG
LOW PROFILE
ROTATOR

5840A
HIGH PROFILE
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

5810: 8.2 [208]
5813: 5.7 [146]
5813X-MG: 6.0 [153]
5816: 6.6 [168]
5840: 7.0 [178]
5850: 9.4 [239]

5810/5816
5.3 [134]

5813
5840/5850
6.0 [153]
5813X-MG: 6.6 [167]

Rotator Module

Typical beam pattern

+12
+8
0
-8
-12

The more powerful and larger square beam created by *free-form* optics
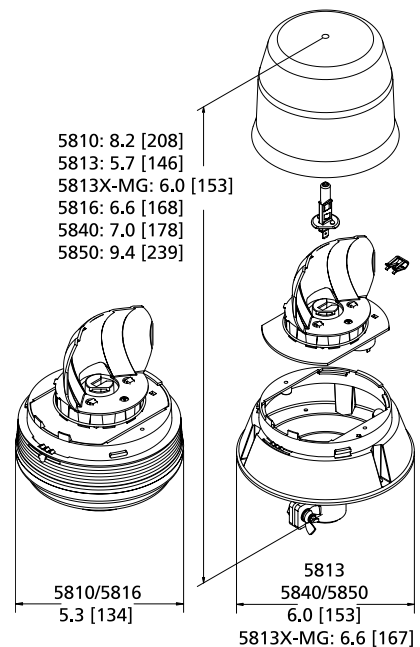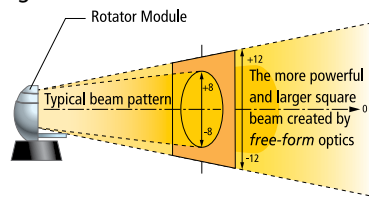
Replace X in part number with desired color: A = amber, B = blue, R = red

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	
					POLE
5850A	12	5.2	160	DESIGNED TO FIT DIN POLE MOUNT DIN #72591 (ORDER SEPARATELY)	

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)
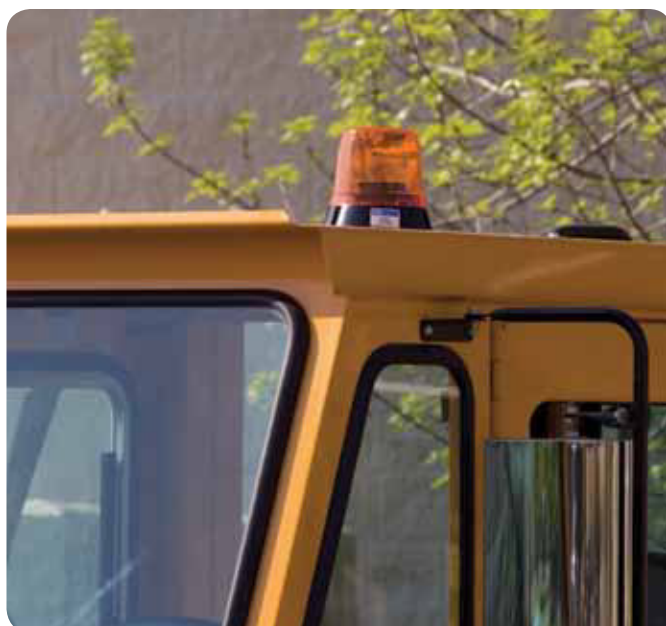
5700 Series
SAE Class I Rotator

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).

5715X: 6.9 [175]
5715X-VM: 7.4 [188]

120°
TYP.

7.6 [193]
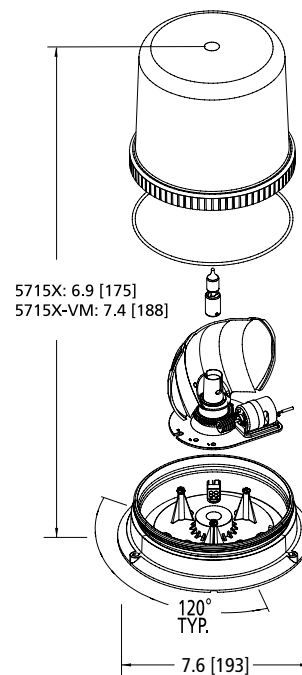
Replace X in part number with desired color: A = amber, B = blue, C = clear, G = green, R = red

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

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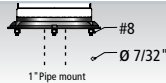
3 Bolt - 3 x 7/32" holes required (optional 4th wiring hole) Secure with #8 hardware, Pipe - 1" NPT thread

6.5" 120°
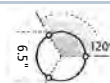
6500 J-Bolt
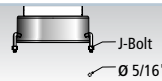
J-Bolt
Ø 5/16"

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

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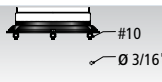
3 Bolt - 3 x 3/16" holes required (optional 4th wiring hole) Secure with #10 hardware

5.1" 120°

6200 / 6260

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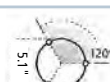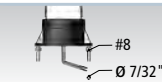
2 Bolt - 2 x 7/32" holes required (plus 3rd wiring hole) Secure with #8 hardware, Pipe - 1/2" NPT thread

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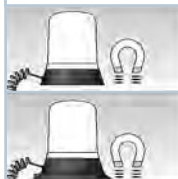
DO NOT FIT BEACON TO ANY ICE COVERED SURFACE
· Always attach to clean, dry, smooth, non-porous, ferrous surface
· Check beacon is secure BEFORE driving vehicle
· Use tabs to release vacuum

5800 Series

1/2"
Ø 9/16"

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

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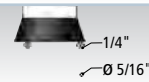
3 Bolt
3 x 5/16" (plus 4th wiring hole)
Secure with 1/4" hardware

5.7" 120°
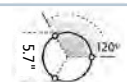
DIN#72591

Pole Fixing
DIN#72591 accepts T or L
fixing bracket

5700 Series

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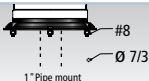
3 Bolt
3 x 7/32" holes required
(plus 4th wiring hole)
#8 hardware, Pipe - 1" NPT thread

6.5" 120°

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
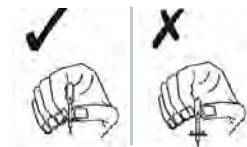
BEACON BULB / TUBE GUIDE

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

ROTO**LED**™

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.

CUSTOM
CONFIGURATION
AVAILABLE

10-00051-E

10 Series
LED Lightbar

The 10 Series LED lightbar combines the high intensity LED warning and low profile styling of the 15 Series with the roof hugging shape and Cleversector™ functionality of the 20 Series product lines. This light-bar offers maintenance free, low amp draw warning capability along with exceptional functionality and aerodynamic styling, suited to car and pick-up truck applications.

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

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 lightheads 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 / Electronic components = 5 years
Temperature Range: -22°F to +122°F (-30°C to +50°C)

Chassis Diagram Key

FRONT (TOP)

DOME SEAMS

REAR (BOTTOM)

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

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 LED		3.8	80	
10-00051-E	12	ILLUMINATES AMBER	6	2	5 LED	C	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 LED		4.0	80	
10-00049-E	12	ILLUMINATES AMBER	6	2	6 LED	C	13.6	80	

15 Series - *StreetLazer*®
LED Lightbar

CUSTOM CONFIGURATION AVAILABLE

15-00039-E

Chassis Diagram Key

FRONT (TOP)

DOME SEAMS
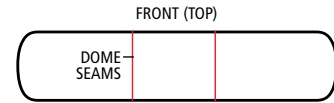
REAR (BOTTOM)

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

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	8 LED	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	7 LED	3.0	80

20 Series
Twin Deck Lightbar

Chassis Diagram Key

FRONT (TOP)

LOWER DECK

DOME SEAMS | TOP DECK

REAR (BOTTOM)

H = 5.1"/ 130mm (center)   W = 12"/ 305mm
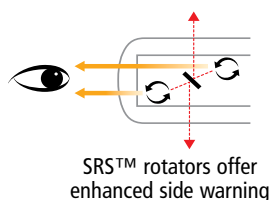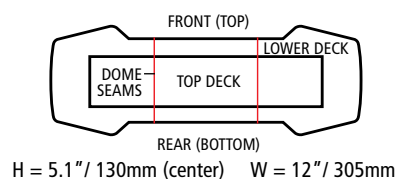
SRS™ rotators offer enhanced side warning
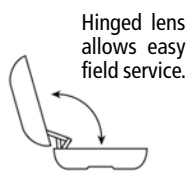
Hinged lens allows easy field service.

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

CUSTOM CONFIGURATION AVAILABLE

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.

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 lightheads 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 ⓒ	AUXILIARY ✳	AMPS	FPM	CHASSIS
20-00177-E	12	▬	4	3	ⓒ		30.8	730	
20-00042-E	12	▬	4	3	ⓒ	5 ✳	45.9	730	

52" / 1.33m

PART NO.	VOLTS	COLOR	WARNING ↻	MIRRORS /	AUXILIARY ⓒ	AUXILIARY ✳	AMPS	FPM	CHASSIS
20-00178-E	12	▬	4	3	ⓒ		30.8	730	
20-00044-E	12	▬	4	3	ⓒ	6 ✳	48.9	730	

30 Series
Twin Deck Lightbar

CUSTOM CONFIGURATION AVAILABLE

30-00110-E

Chassis Diagram Key

FRONT (TOP)

DOME SEAMS | LOWER DECK | TOP DECK

REAR (BOTTOM)

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

Hinged lens allows easy field service.

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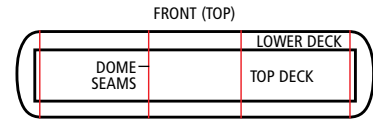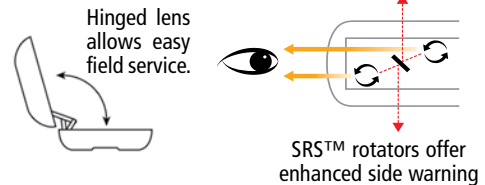
Back lit, rubber key touch-pad provides finger tip control of built in Safety Director™ (included with safety director models).

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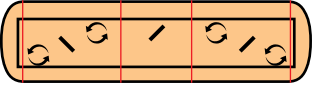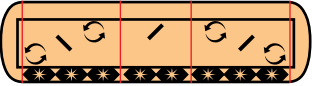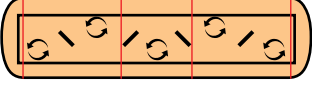
Warranty: Lightbar = 2 years / Bulb = 90 days / Flashtube = 6 months

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

49" / 1.24m

CHASSIS	PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY				AMPS	FPM
				Rotator	Linear Strobe	Mirrors	F/R	STT	W	Safety Director		
	30-00012-E	12		4		3					20	730
	30-00053-E	12		4		3				8	44	730
	30-00052-E	12		5		4					25	820
	30-00054-E	12		5		4				8	49	1060
	30-00058-E	12			4					8	29	144

(continued) **30 Series**

54" / 1.37m

PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY				AMPS	FPM	CHASSIS
			↻	✦	╱	☀ F/R	STT	W	✦			
30-00081-E	12	▭	4		3	2/0	STT	W		36.6	840	
30-00082-E	12	▭	4		3	2/2	STT	W		39.6	840	
30-00079-E	12	▭	5		4					25	820	

59" / 1.5m

PART NO.	VOLTS	COLOR	WARNING		MIRRORS	AUXILIARY				AMPS	FPM	CHASSIS
			↻	✦	╱	☀ F/R	STT	W	✦			
30-00116-E	12	▭	4		3		STT	W		37.6	730	
30-00106-E	12	▭	4		3	0/2	STT	W		40.6	730	
30-00107-E	12	▭	4		3	2/0	STT	W		40.6	840	
30-00110-E	12	▭	4		3		STT	W	8✦	61.6	730	

60 Series - EVOLUTION®

SAE Class I - Single Deck Lightbar

CUSTOM CONFIGURATION AVAILABLE

6603060

Chassis Diagram Key

FRONT (TOP)

DOME SEAMS

REAR (BOTTOM)

H = 4.3"/ 109mm   W = 8.3"/ 211mm

Rotator Module

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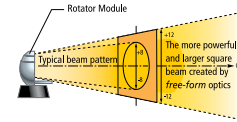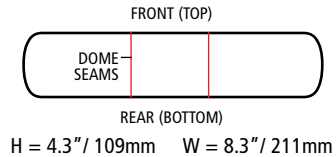
ECCO's 60 Series lightbars are available in a wide variety of configurations offering a high level of functionality in a compact, low profile and aerodynamic housing. 60 Series lightbars feature ECCO's low noise, belt-drive rotator incorporating free-form reflectors for a larger, more powerful beam pattern.

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)

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)

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.

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

Alternating Halogens - Front or rear (F/R) facing large amber alternating directional halogen lights, fitted in pairs (50W).

STT **Stop, Tail, Turn Lights** - Pair of rear facing high-level auxiliary signal lights

W **Worklights** - Pair of rear facing 55W adjustable halogen worklights

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
				🔄	⊕	F/R	◁	◇	F/R	STT	W			
(chassis diagram)	6363001	12	▬	3				2					15.6	1120
(chassis diagram)	6363003	12	▬	2		2							3.9	260

48" / 1.2m - Evolution®

CHASSIS	PART NO.	VOLTS	COLOR	WARNING			MIRRORS		AUXILIARY				AMPS	FPM
				🔄	⊕	F/R	◁	◇	F/R	STT	W			
(chassis diagram)	6483001	12	▬	2			2						10.2	640
(chassis diagram)	6483002	12	▬	4				2					20.4	1280
(chassis diagram)	6483003	12	▬	5			2	2					25.5	1760
(chassis diagram)	6483011	12	▬		4			2					7.8	520

(continued) **60 Series**

Evolution® - 54" / 1.37m

PART NO.	VOLTS	COLOR	WARNING ↻	WARNING ⊕	WARNING F/R	MIRRORS <	MIRRORS ◇	AUX F/R	AUX STT/W/===	AMPS	FPM	CHASSIS
6543050	12		2			2		2/0	STT W ===	29.4	1440	
6545001	12		3			4			STT W	28.7	1120	
6543002	12		4				2			20.4	1280	
6543020	12		4			4			STT	24.6	1280	
6543018	12		4			4			STT W	33.8	1280	
6543001	12		5			2	2			26	1760	

Evolution® - 60" / 1.5m

PART NO.	VOLTS	COLOR	WARNING ↻	WARNING ⊕	WARNING F/R	MIRRORS <	MIRRORS ◇	AUX F/R	AUX STT/W/===	AMPS	FPM	CHASSIS
6603003	12		2		2/2	2		2/0	STT W	35.6	770	
6603060	12		2		2/2	2		2/0	STT W ===	37.1	2500	
6605005	12		3			4		2/0	STT W	32.9	1120	
6605003	12		4			4		2/0	STT W	38	1280	
6605004	12		4			4		2/2	STT W	42.2	1280	
6605055	12		4			4		2/2	STT W ===	42.2	1280	

70 Series
SAE Class I
Single Deck Lightbar

CUSTOM CONFIGURATION AVAILABLE

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.

Chassis Diagram Key

FRONT (TOP)

DOME SEAMS

REAR (BOTTOM)
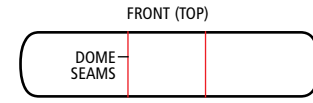
H = 5.8" / 147mm   W = 8.3" / 211mm

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

2.1 [53]

23.2 [590]

12.2 [310]
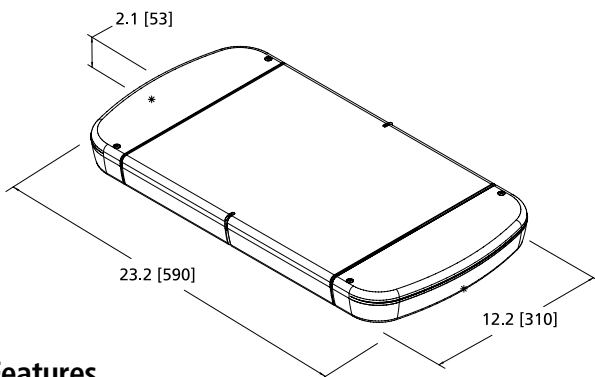
StreetLazer® - 15 Series
23" LED Minibar

CUSTOM
CONFIGURATION
AVAILABLE

15-00013-E

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.

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)

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

UPPER END

UPPER CENTER

Lens Clip	LED Modules		Lenses		
PART NO.	FRONT/REAR	CORNER		END	CENTER
R109-927	**R109-924X**	**R159-938X**	**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
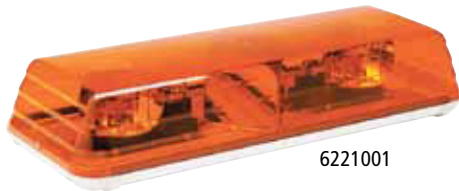
6221001

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

4.3 [108]
22 [559]
8.3 [210]

Rotator Module
Typical beam pattern
+12
The more powerful and larger square beam created by *free-form* optics
-12
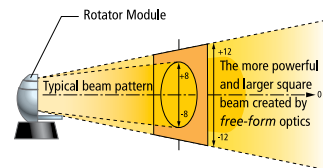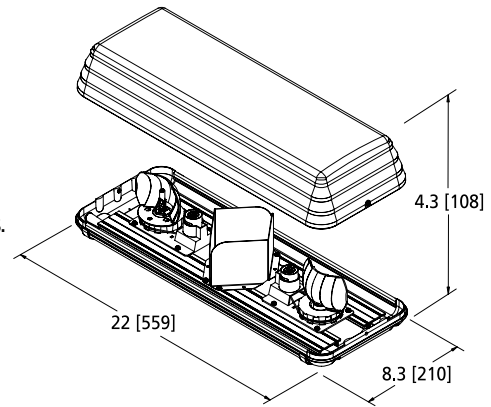
22" / 0.57m - Evolution®

CHASSIS		PART NO.	VOLTS	COLOR	AMPS	FPM
PERMANENT MOUNT		6221001		(orange)		
PERMANENT MOUNT		6221002	12	(blue)	10.5	640
PERMANENT MOUNT		6221003		(clear)		
PERMANENT MOUNT		6221004		(red)		

ECCO® Trademarks & Patents

EVOLUTION®   Smart Strobe®   Navigator®   StreetLazer®

BLAZE®   pulse®   ↻®   ✦®   ✹®   LED®   I.beam®

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
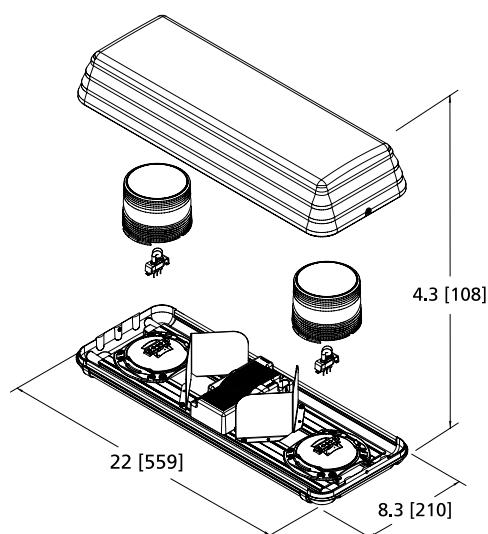
Features

► 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

4.3 [108]

22 [559]

8.3 [210]

6221005

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		▬	AMBER / AMBER					⊕ ◇ ⊕	PERMANENT MOUNT
6221006	12-24	▬	CLEAR / CLEAR	3.8	7-13 Double or 11-15 Quad	70	65	⊕ ◇ ⊕	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	Lenses			
PART NO.	AMBER	BLUE	CLEAR	RED
R6501FT	**R5150LA**	**R5150LB**	**R5150LC**	**R5150LR**
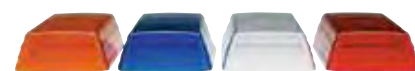
Bulb	Domes			
PART NO.	AMBER	BLUE	CLEAR	RED
R5812BH	**R5101LA**	**R5101LB**	**R5101LC**	**R5101LR**

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

5221001

5450CAA

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

5.8 [147]

22.1 [559]

8.3 [210]

5221001 DEPICTED
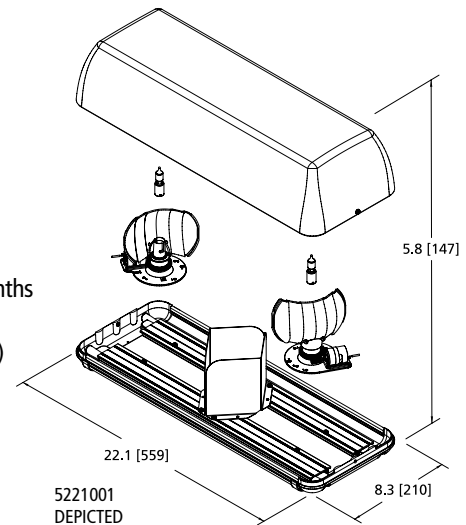
22" / 0.57m - Rotating

CHASSIS		PART NO.	VOLTS	COLOR*		AMPS	FPM
				DOME	FILTER		
PERMANENT MOUNT	⊙ ◇ ⊙	**5221001**		(orange)	CLEAR / CLEAR		
PERMANENT MOUNT	⊙ ◇ ⊙	**5221002**		(blue)	CLEAR / CLEAR		
PERMANENT MOUNT	⊙ ◇ ⊙	**5221003**	12	(clear)	CLEAR / CLEAR	8.6	400
PERMANENT MOUNT	⊙ ◇ ⊙	**5221004**		(red)	CLEAR / CLEAR		
PERMANENT MOUNT	⊙ ◇ ⊙	**5221005**		(clear)	AMBER / AMBER		

22" / 0.57m - Strobe

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

5000 Series
17" LED Minibar

NEW

5008A

5010A-MG
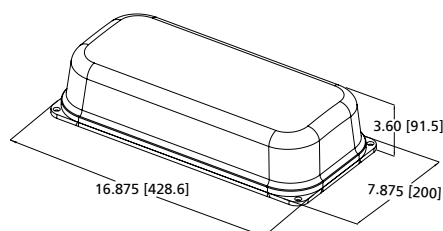
Features

► 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)

3.60 [91.5]
16.875 [428.6]
7.875 [200]

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.

Amber illumination only available

17" / 0.45m

PART NO.	HEADS	VOLTS	COLOR*		AMPS	CHASSIS
			DOME	ILLUMINATION		
5008A	8			AMBER	2.9	**PERMANENT MOUNT**
5010A	10	12			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 eash 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 BLAZE®
SAE Class I
15" Rotating Minibar

5135A

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

Rotator Module

Typical beam pattern

+12
+8
The more powerful and larger square beam created by *free-form* optics
-8
-12
0
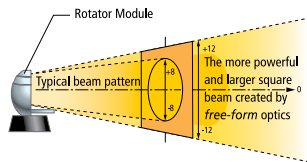
Features

► 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

5135X: 4.5 [114]
5135X-VM: 5.1 [129]

15.75 [400]

8.27 [210]
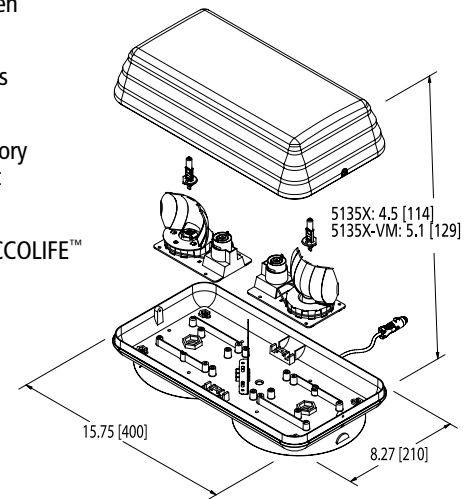
Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

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					Bulb
AMBER	**BLUE**	**CLEAR**	**RED**		**PART NO.**
R5100LA	**R5100LB**	**R5100LC**	**R5100LR**		**R5812BH**

BLAZE® **5150 Series**
SAE Class II
15" Strobe Minibar

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

5150XXX: 4.5 [114]
5150XXX-VM: 5.1 [129]

15.75 [400]

8.27 [210]

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.
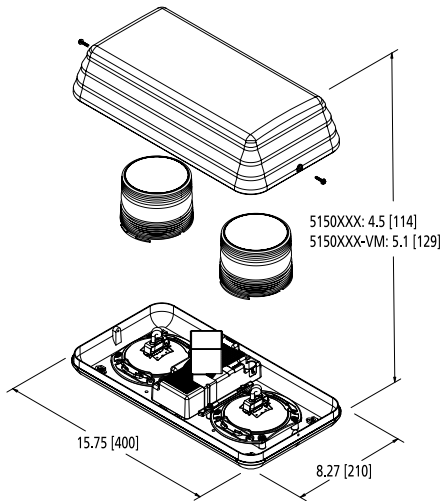
Blaze® II - 15" / 0.4m

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 BLAZE®
15" LED Minibar

NEW

5188CA-VM

This versatile LED minibar offers many features and benefits including it's 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)

518XXX: 4.5 [114]
518XXX-VM: 5.1 [129]

8.27 [210]

15.75 [400]
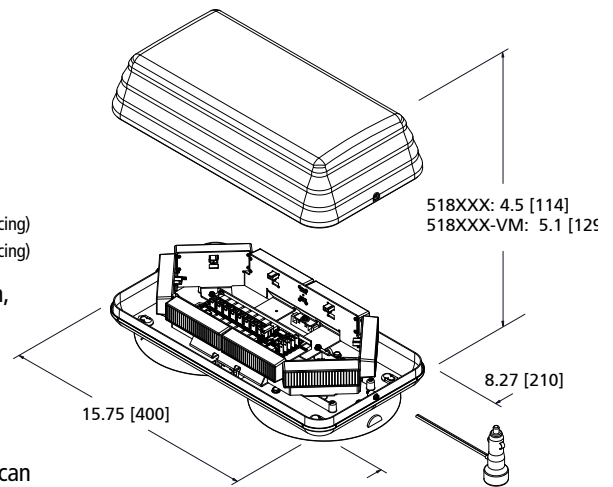
Approvals

► 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	AMBER	2.9
	5186CX			Clear	SPECIFY COLOR	
	5188A	8		Amber	AMBER	3.2
	5188CX			Clear	SPECIFY COLOR	
VACUUM MAGNET	5186A-VM	6	12	Amber	AMBER	2.9
	5186CX-VM			Clear	SPECIFY COLOR	
	5188A-VM	8		Amber	AMBER	3.2
	5188CX-VM			Clear	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**

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

NEW

5280A

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.

5.8 [146]
13.3 [337]
6.3 [160]

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™ - 13" / 0.35m

PART NO.	VOLTS	COLOR* DOME	COLOR* ILLUMINATION	AMPS	FPM	CHASSIS
5280A	12-24	AMBER	AMBER / AMBER	2.6	360	**PERMANENT MOUNT**
5280B		BLUE	BLUE / BLUE			
5280G		GREEN	GREEN / GREEN			
5280R		RED	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)

8.3 [210]

15.7 [400]

5315X: 5.8 [147]
5315X-MG: 6.0 [152]
5315X-VM: 6.2 [157]
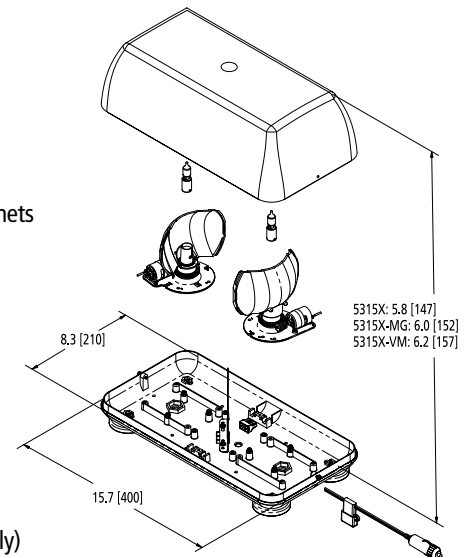
15" / 0.4m

CHASSIS	PART NO.	VOLTAGE	COLOR*		AMPS	FPM
			DOME	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

5350 Series
SAE Class II
15" Strobe Minibar

5350XXX: 5.8 [147]
5350XXX-VM: 6.2 [157]

8.3 [210]

15.7 [400]
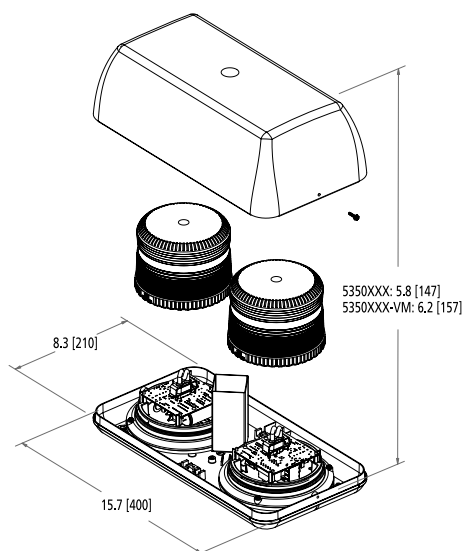
Features

► 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

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	CHASSIS
		DOME	FILTER				
5350AAA	12-48		AMBER / AMBER	3.0	7 Double or 10 Quad	80 Double or 65 Quad	**PERMANENT MOUNT**
5350ACC			CLEAR / CLEAR				
5350CAA			AMBER / AMBER				
5350CAC			AMBER / CLEAR				
5350AAA-VM	12-48		AMBER / AMBER	3.0	7	80 Double	**VACUUM MAGNET**
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
						R5300LA	**R5300LB**
						CLEAR	RED
R6501FT	**R6050LA**	**R6050LB**	**R6050LC**	**R6050LG**	**R6050LR**	**R5300LC**	**R5300LR**

3000 Series
SAE Class II
Safety Director™ Bar

3015
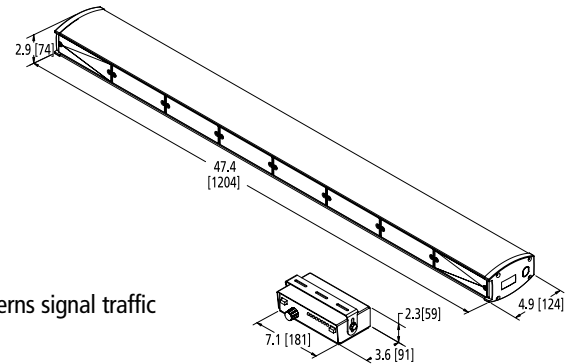
Incandescent or halogen directional warning power with a choice of flash patterns and user-friendly control, the Safety Director™ is the ideal product to steer traffic away from work zones and other dangerous situations.

2.9 [74]

47.4 [1204]

2.3 [59]

7.1 [181]

3.6 [91]

4.9 [124]

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)
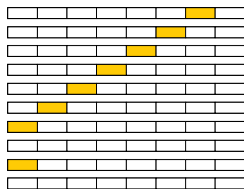
LEFT ARROW SOLID (LS)
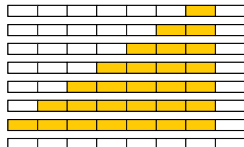
RIGHT ARROW (R)
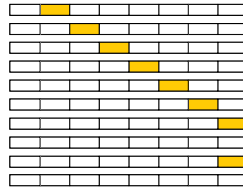
RIGHT ARROW SOLID (RS)
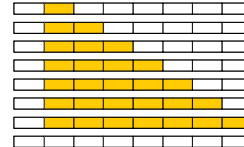
CENTER OUT (C)

CENTER OUT SOLID (CS)
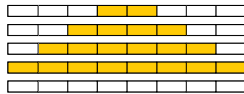
WIG WAG (WW)
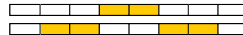
SINGLE FLASH (AF)

Safety Director™ System

LIGHT SOURCE	PART NO.	CABLE LENGTH	VOLTAGE	MAX AMPS	SAE
HALOGEN	3015H	15'	12	18	2 ™
	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

2.3 [58]

47.5 [1207]

2.3[59]

7.1 [181]

3.6 [91]

2.5 [64]

3315
Illuminates Amber
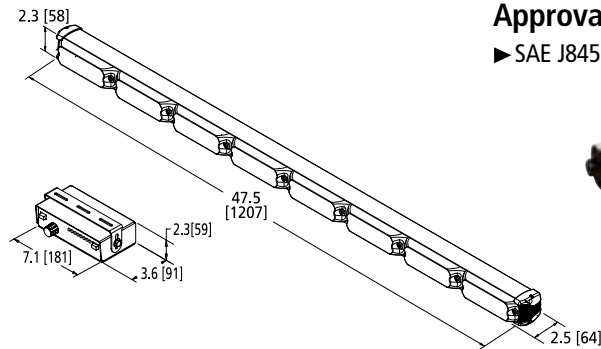
High output directional warning with the added benefits of low amp draw, maintenance free, and long-life LED light source. The LED Safety Director™ is the definitive traffic direction lighting solution.

Flash Patterns

LEFT (L)
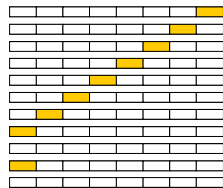
LEFT SOLID (LS)
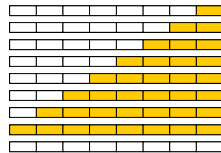
RIGHT (R)
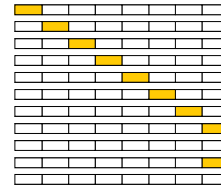
RIGHT SOLID (RS)
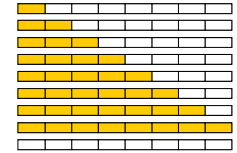
CENTER OUT (C)

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		
3335	35'	12	7.0		**LED**
3355	55'	12	7.0		

* Excludes auxiliary output

3510 Series

SAE Class I Surface Mount LED Light Head

NEW

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: -22ºF - +122ºF
(-30ºC - +50ºC)

Approvals

▶ SAE J595 Class I

1.452 [37]

3.668 [93]

0.462 [12]

1.082 [27]

3.298 [84]

0.402 [10]

3.96 [100]   Ø .57 [14.5]
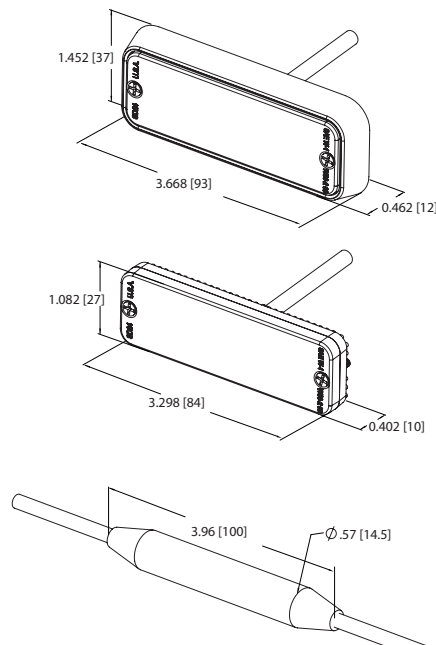
Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

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

2.1 [53]
SINGLE = 5.2 [131]
TWIN = 9.2 [233]
2.9 [74]

Window

1.4 [35]
SINGLE = 6.3 [161]
TWIN = 10.3 [263]
4.4 [112]
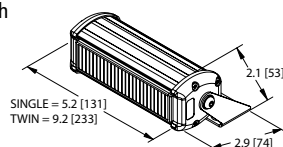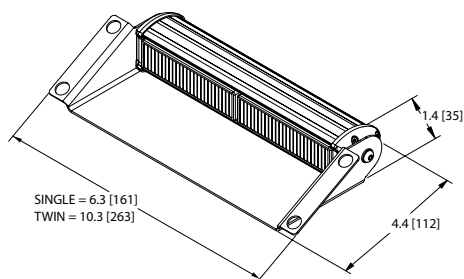
Features

► 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

3635AC

3610A

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** 9' cord on cigarette plug
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: -22ºF - +122ºF (-30ºC - +50ºC)

5.1 [130]

3710

1.5 [38.48]

1.48 [37.6]

6.5 [165]

3760

2.1 [53]

1.2 [30]
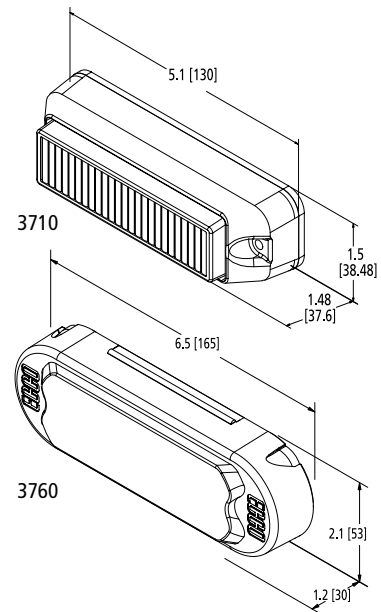
Approvals

▶ 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)

SURFACE	PART NO.	VOLTAGE	AMPS
	3710X	12	0.3
GROMMET NEW	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	Mounting Box
PART NO.	PART NO.
R2160GO	A9895

3730 Series
SAE Class II Surface Mount LED Light Head

NEW

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.

3.7 [94]

1.3 [34]

1.5 [39]

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

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: -22ºF - +122ºF
(-30ºC - +50ºC)

Approvals

► SAE J845 Class II (A, B & R)

► CE, e

► IP Rating 67

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

3810 5.9 [151] 2.1 [53] 1.2 [30]

3860 6.5 [165] 2.1 [53] 1.2 [30]
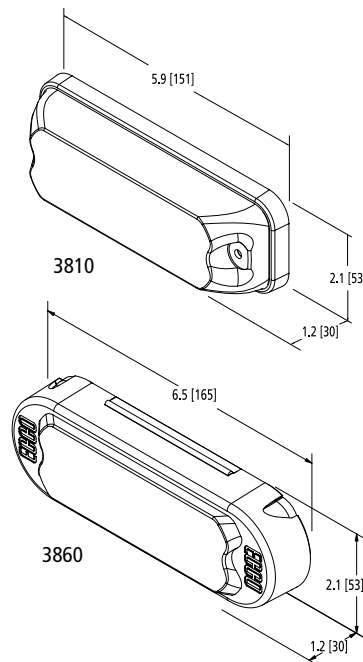
Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Quad Flash

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

Quad Flash: Non-synchronizable, quad flash operation

3860 Series Accessories

Adapter	Grommet	Mounting Box
PART NO.	PART NO.	PART NO.
A3860ADPT	**R2160GO**	**A9895**

Converts surface mount light to grommet mount

5.19 [132]

1.25 [32]

4 [102]

3945

7.44 [189]

1.5 [38]

6.38 [162]

3965

2.19 [56]
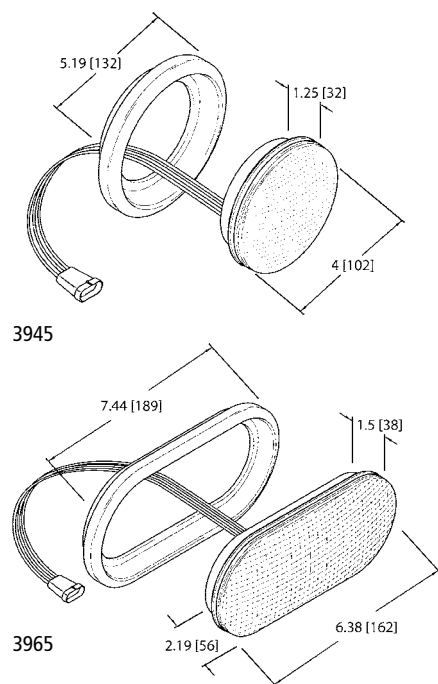
Features

▶ 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

NEW

3965A

3945A
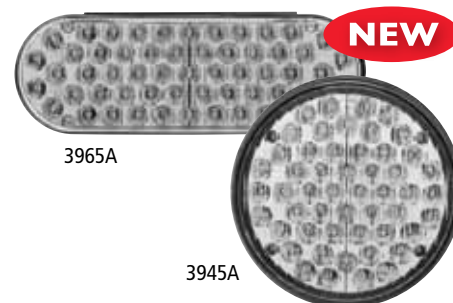
These grommet mount LED directional lights offer long-life, low maintenance operation with no moving parts or bulbs/flashtubes to break or replace. Simply fit in the supplied oval or round rear lighting grommet.

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

Multi Flash (8)

PART NO.	VOLTAGE	AMPS	SHAPE	GROMMET
3945X	12	0.5	**ROUND**	
3965X	12	0.5	**OVAL**	

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

3900 Series Accessories

Grommets		Mounting Boxes	
ROUND	OVAL	ROUND	OVAL
R2140GR	**R2160GO**	**A9894**	**A9895**

9010/9011/9021/9031 Series
Concealed Warning Lights

Hide-A-LED™

9010

9031

9011/21

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)

1.50 [38]
0.97 [25]
9010
1.63 [41]

1.50 [38]
0.99 [25]
9011/9021
1.06 [27]

1.09 [28]
0.86 [22]
9031
1.34 [34]
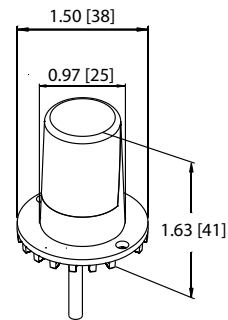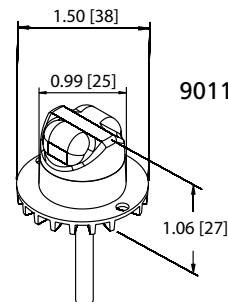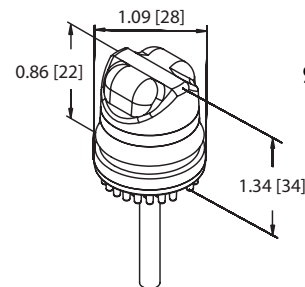
Replace X in part number with desired color: A = amber, B = blue, C = clear, R = red

Multi Flash (16)

	PART NO.	HEADS	MOUNT	VOLTAGE	AMPS
1" HOLE	**9010X**	1	SCREW-ON	12	0.2 - 0.5
1" HOLE	**9011X**	1	SCREW-ON	12	0.2 - 0.5
1" HOLE **NEW**	**9021XX**	2	SCREW-ON	12	0.4 - 1.0
1" HOLE **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.

Hide-A-LED™ – 9012 Series

Concealed Warning Light

NEW
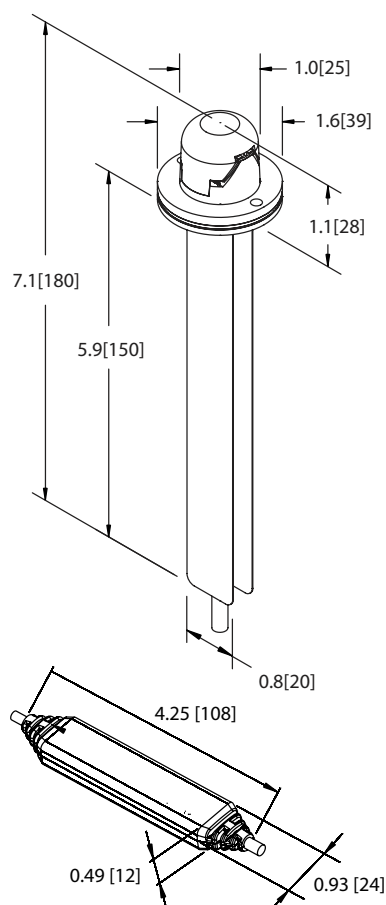
Features

▶ 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)

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.

Dimensions: 1.0[25], 1.6[39], 1.1[28], 7.1[180], 5.9[150], 0.8[20], 4.25 [108], 0.49 [12], 0.93 [24]

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

Multi Flash (16)

PART NO.	COLOR(S)*	TYPE	HEADS	MOUNT	VOLTAGE	AMPS	1" HOLE
9012X	SPECIFY COLOR	SOLID					
9012ACA	AMBER/CLEAR	2 COLOR					
9012BRB	BLUE/RED	2 COLOR	1	SCREW-ON	12-24	0.6 - 1.25	
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
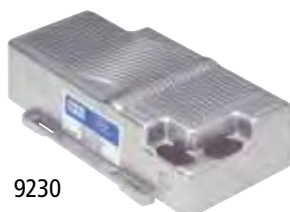
9230

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

2.01 [51]
3.51 [89]
6.35 [161]
1.72 [44]
3.67 [93]
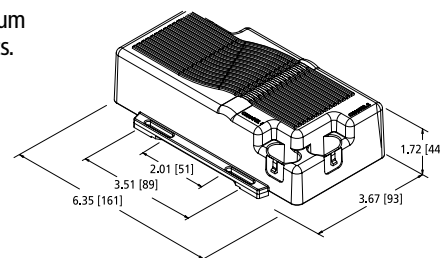
Power Supply

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	HIGH JOULES		LOW		FPM	
				DBL	QUAD	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	HIGH JOULES		LOW		FPM		APPROVALS
				DBL	QUAD	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.)
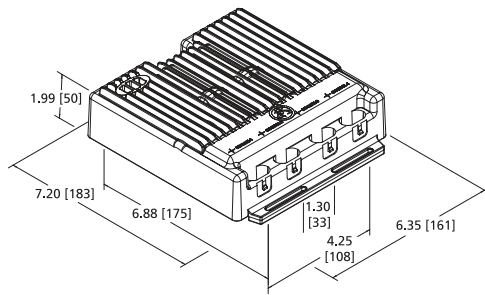
9400 Series
4 Head Remote Strobe System

1.99 [50]
7.20 [183]
6.88 [175]
1.30 [33]
4.25 [108]
6.35 [161]

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

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			4									
9460-11			2	2								
9460-18			2			2						
9460-14	12-24	CLEAR		2	2		13	15	7	11	70	65
9460-19					4							
9460-22						4						
9460-15			4									
9460-16	12-24	AMBER	2			2	13	15	7	11	70	65
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)

2.2[55]   5.5[140]   2.5[64]   3.3[84]   5.6[142]
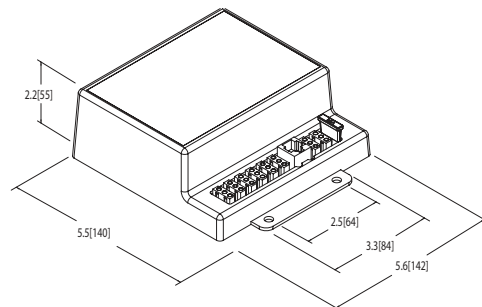
Power Supply

	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
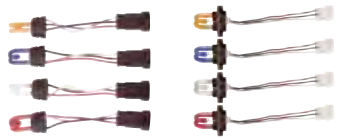
► Plugs directly into 9600 power supply

► 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	
9007X		

9001
Use with 9200/9400

9007
Use with 9600

PART NO.	VOLTAGE	OVAL
9006X	12	Amber only Use with 9200/9400

REPLACEMENT TUBE: R9000FT

PART NO.	VOLTAGE	PROFILE	360°
9050X	12-24	LOW	Amber only Use with 9200/9400
9070X	12-24	MEDIUM	

Low   Medium

REPLACEMENT TUBE: R6501FT

Cables & Adapters

PART NO.	LENGTH	TYPE
9915	15'	Non-Shielded Cable
9920	20'	
9925	25'	
9935	35'	
9950	50'	
9900-BULK	500' roll	
9915S	15'	Shielded Cable
9915AMP*		
9935S	35'	
9950S	50'	

9915AMP*

Only cable for use with 9600 Series

PART NO.	DESCRIPTION
A9000AMP	SUPER SEAL CONNECTOR PLUS PINS
R9000PCH	POWER CABLE

Use with 9200/9400

2000 Series
Remote Strobe & LED Systems

2000

2160A

2570A

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.

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

6.68 [170]

4.28 [108.8]

TOP VIEW

1.97 [50]

NAVIGATOR

FRONT VIEW

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			Low
2570A	MEDIUM	AMBER	12	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.

Exploded View

Circuit board

Front

Reverse mounted speaker

Side View Cutaway

Design allows for high pressure washing without damaging alarm.

Epoxy encapsulated circuit board

Front

Back

Reverse mounted speaker

Reverse mount design offers no place for dirt build up.

AMECA Certification

SAE J994 CERTIFIED AMECA

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

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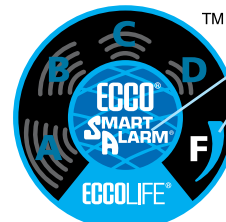
Special Feature
This designation indicates alarm monitors the ambient noise level and automatically adjusts to a minimum of 5 dB(A) above ambient noise level, up to a maximum rated output.

Warranty:

ECCOLIFE™ ● Indicator printed in blue
Life of Vehicle Warranty

2YEAR WARRANTY ● 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	SA914 p.61	777 p.67	872 p.69	830 p.68	630 p.66	575 p.65
	102	SA955 p.60		SA917 p.61		840 p.68	530 p.64	435 p.62	
C	**97**	SA950 p.60	SA901 p.61	SA940 p.60		820 p.68	610 p.66 410 p.63 210 p.65	510 p.64 520 p.64 585 p.64	415 p.62
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

1. LISTENS → **2. SOUNDS** → **3. SHUTS DOWN**

0.4 Seconds — 0.5 Seconds — 0.1 Seconds

CYCLE REPEATS
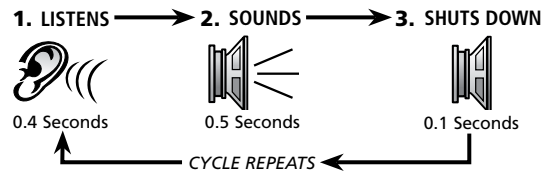
► 100% solid state electronic circuit boards are epoxy sealed to protect against dust, moisture and vibration.

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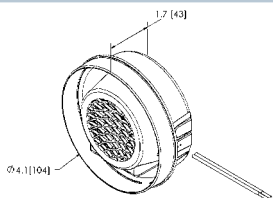
PART NO.	VOLTAGE	dB(A)	AMPS	
SA955	12-24	82-102	0.4	CE

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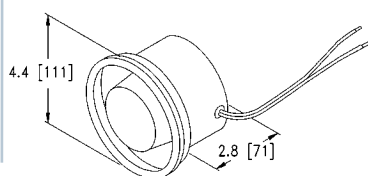
PART NO.	VOLTAGE	dB(A)	AMPS	
SA940	12-24	87-112	0.6	CE

►Mounting Grommet: R2140GR

500 Series

► Compact size and universal mounting pattern maximizes location options.

► Self-grounding.

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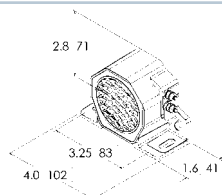
PART NO.	VOLTAGE	dB(A)	AMPS	
SA950	12-24	82-102	0.4	UL CE
SA951	12-48	77-97	0.2	UL CE

600 Series

► Compact and robust design ideal for demanding applications in medium noise environments.

► Reverse mounted speaker design ensures longer alarm life.

► ECCOLIFE™ Warranty

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

3.8 [97]
4.5 [114]
5.0 [127]
3.0 [76]
2.8 [71]
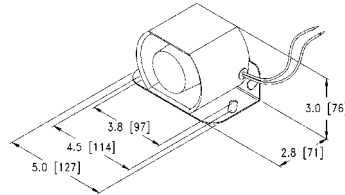
800 Series

► 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

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

3.95[98]
5.09[129]
5.8 [146]
4.1 [103]
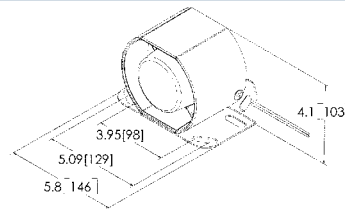
800 Series

► Steel housing and rugged construction with integral bracket including popular OEM mounting pattern.

► Reverse mounted speaker design ensures longer alarm life.

► ECCOLIFE™ Warranty

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

3.09[78]
4.13[105]
5.2[132]
6.2[159]
7.1D_180
4.0[101]
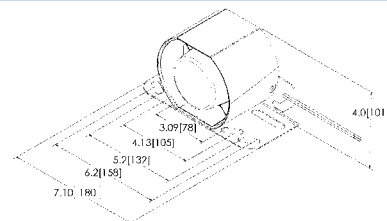
700 Series

► Popular OEM design for rugged construction applications.

► 2 Year Warranty

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

7.1 [181]
6.0 [152]
5.8 [147]
3.3 [84]
4.0 [102]
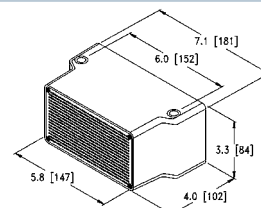
40 Series

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)
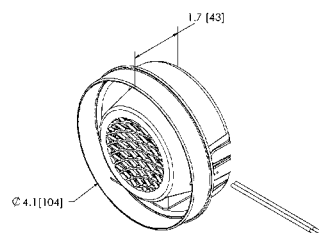
		PART NO.	VOLTAGE	dB(A)	AMPS	
SMART ALARM® U.S. PATENT #4,603,317 **82-102** dB(A)		SA955	12-24	82-102	0.4	CE
102 dB(A)		435	12-24	102	0.3	SAE J994 CE
97 dB(A)		415	12-24	97	0.2	SAE J994 CE

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

400 Series

4.4 [111]

2.8 [71]
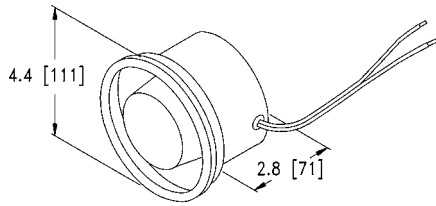
Features

► 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	C€ ⊖		**SMART ALARM®** **87-112** dB(A)
450	12-36	112	0.4	SAE J994 C€ ⊖		**112** dB(A)
410	12-36	97	0.1	SAE J994 C€ ⊖		**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)

2.8 | 71
3.25 | 83
4.0 | 102
1.6 | 41

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

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

575 Series
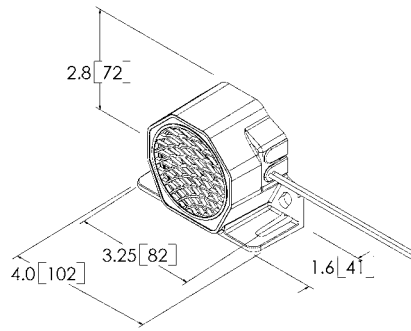
Features

► 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)

2.8 [72]
3.25 [82]
4.0 [102]
1.6 [41]

PART NO.	VOLTAGE	dB(A)	AMPS			
575	12-24	107	0.3	SAE J994 🇺🇱 CE ⊖		**107** dB(A)

► AMECA certified to SAE J994
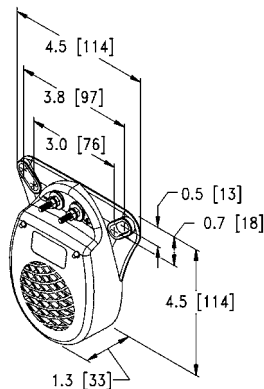
200 Series

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)

4.5 [114]
3.8 [97]
3.0 [76]
0.5 [13]
0.7 [18]
4.5 [114]
1.3 [33]

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)

3.0 [76]
3.8 [97]
4.5 [114]
5.0 [127]
2.8 [71]
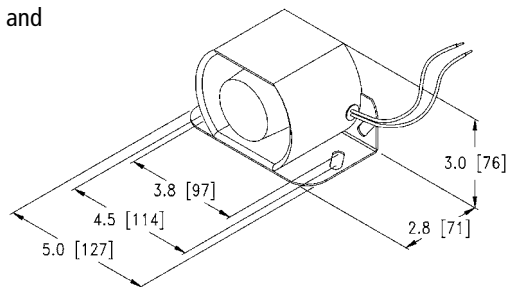
SMART ALARM® 82-107 82-102 dB(A)		PART NO.	VOLTAGE	dB(A)	AMPS	
		SA901	12-24	82-107	0.3	UL CE ⊖
		SA931	12-48	82-102	0.2	UL CE ⊖
		SA980	36-80	82-102	0.2	UL CE ⊖
107 dB(A)		**630**	12-36	107	0.4	SAE J994 UL CE ⊖
97 dB(A)		**610**	12-36	97	0.1	SAE J994 UL CE ⊖

► Models 610 & 630 are AMECA certified to SAE J994

700 Series
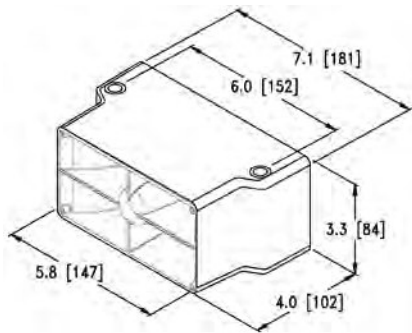
Features

► 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			**97-112** dB(A)
777	12-24	97	0.5	SAE J994 CE			**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)

4.1 [103]
3.95 [98]
5.09 [129]
5.8 [146]
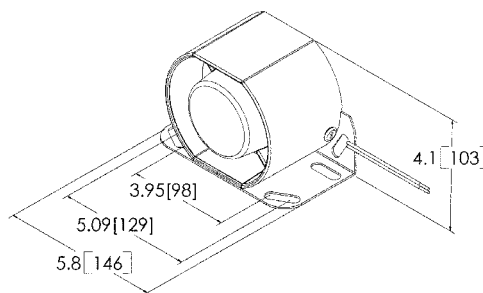
		PART NO.	VOLTAGE	dB(A)	AMPS	
SMART ALARM® 87-112 dB(A)		SA917	12-24	87-112	0.4	CE ⊖
112 dB(A)		850	12-36	112	0.4	SAE J994 🆄 CE ⊖
107 dB(A)		830	12-36	107	0.4	SAE J994 CE ⊖
97/112 dB(A) REVO™ dB rating user selected at time of installation		840	12-36	97	0.4	SAE J994 CE ⊖
				112		
87/107 dB(A) REVO™ dB rating user selected at time of installation		820	12-36	87	0.4	SAE J994 🆄 CE ⊖
				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
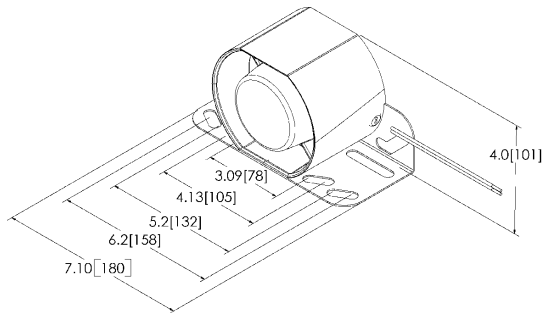
Features

► 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 ⊖	ECCO SMART ALARM™ ECCOLIFE	**SMART ALARM®** **87-112** dB(A)

PART NO.	VOLTAGE	dB(A)	AMPS			
876	12-36	112	0.4	SAE J994 CE ⊖	ECCO ECCOLIFE	**112** dB(A)

PART NO.	VOLTAGE	dB(A)	AMPS			
872	12-36	97 / 112	0.4	SAE J994 CE ⊖	ECCO ADJUSTABLE ECCOLIFE	**97/112** dB(A) REVO™ dB rating user selected at time of installation

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

Dimensions:
4.0[101]
3.09[78]
4.13[105]
5.2[132]
6.2[158]
7.10[180]

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

► 2 Year Warranty

2.8 71
3.25 82
4.0 102
1.6 41
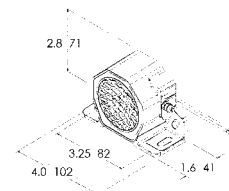
DUAL FUNCTION

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

2.8 71
4.0 102
3.25 82
1.6 41
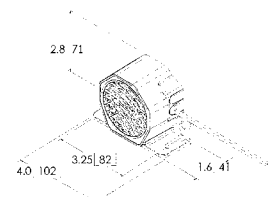
CONSTANT TONE

	PART NO.	VOLTAGE	dB(A)	SAE	AMPS	
	CT530-2LDW	12-24	102	N/A	0.5	🅤🅛 CE ⊖

► Specifically designed for use on SCR controlled electric vehicles or heavy vibration IC vehicles.

► 2 Year Warranty
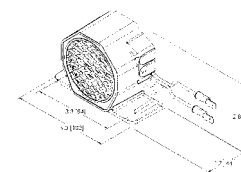
FORWARD HORN

	PART NO.	VOLTAGE	dB(A)	SAE	AMPS	
	FH575	12	107	L	0.9	SAE J1105 🅤🅛 CE ⊖
	FH577	24-48	107		0.8	🅤🅛 CE ⊖
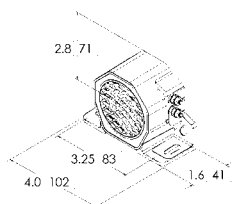
► Cost effective dual tone warning in a compact housing.

► 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		
DT500	12-24	97	N/A	0.5	CE ⊖	DUAL TONE
DT500FP-LWC	12-24	102 FAST PULSE	N/A	0.9	℞ CE ⊖	
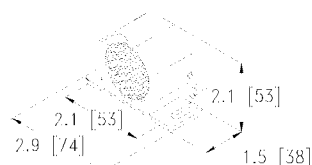
► Warning alarm suitable and warranted for non-commercial vehicles only.

► 90 Day Warranty

PART NO.	VOLTAGE	dB(A)	AMPS	
MS90	12	90	0.1	MINI ALARM
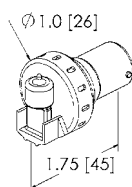
► Back-up light replacement, combination back-up alert and bulb.

► Suitable and warranted for non-commercial vehicles only.

► Not intended for use as a commercial back-up alarm.

► 90 Day Warranty

110-000

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

1.70 [43]

1.09 [28]

1.29 [33]

1.76 [45]
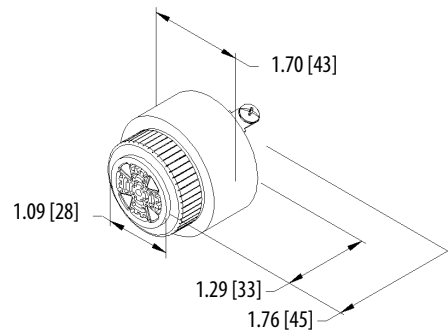
	PART NO.	VOLTAGE	dB(A)	AMPS	CONNECTION	
FAST PULSE	**201120**	12-48	80	0.1	4-40 SCREW	🆄🆛
SLOW PULSE	**202110**	12-48	80	0.1	¼″ MALE SPADE	
	202120	12-48	80	0.1	4-40 SCREW	
DUAL MODE Continuous & Fast Pulse	**204120**	12-48	80	0.1	4-40 SCREW	
LOUD CONTINUOUS	**208120**	12-48	80	0.1	4-40 SCREW	
CONTINUOUS	**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

1.6 [40]

7.0 [178]

2.7 [68]
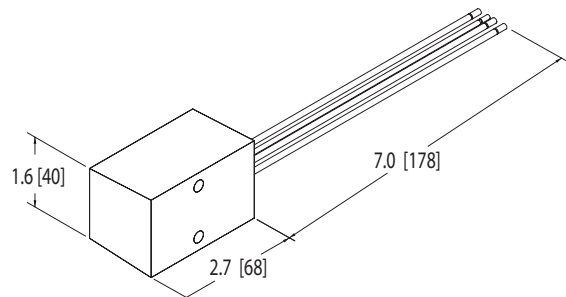
	PART NO.	MAX AMPS	
DRIVE LINE SENSOR	**DS-1500**	5.0	Meets California refuse truck alarm device requirements.

Back-Up Bulbs
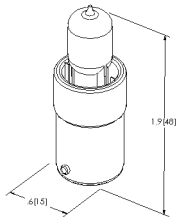
► Increases visibility for both driver and pedestrian when backing up.

► High intensity bulb is more than twice as powerful as a conventional back-up bulb.

► 90 Day Warranty

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

50W HALOGEN BULB
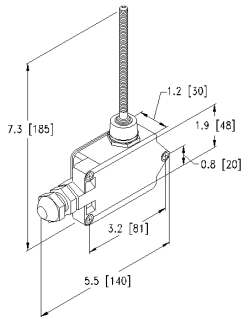
Switches

► 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
SW30	12-80 VDC	10.0	NORMALLY OPEN OR CLOSED
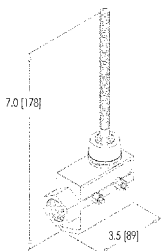
360° SWITCH

► 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
SW15	12-80 VDC	10.0	NORMALLY OPEN OR CLOSED

360° SWITCH
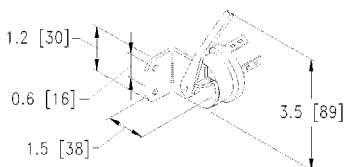
► Single pole, single throw switch with single direction movement.

► For light duty vehicles not equipped with back-up lights.

► Weather resistant.

► 1 Year Warranty

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

SINGLE DIRECTION SWITCH

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

B&W | **2 CAMERA EXPANDABLE**

M500

C101

T60

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

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)

COLOR | **2 CAMERA EXPANDABLE**

M3500

C2004

Kit Expansion Options

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)

* 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.

Gemineye™
CAMERA / DATA STORAGE SYSTEM

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 – *Gemineye*™
CAMERA / DATA STORAGE SYSTEM
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.

M5600

TC20

C2000

COLOR   **2** CAMERA EXPANDABLE

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.

Gemineye™ – K5601
CAMERA / DATA STORAGE SYSTEM

5.6" LCD Color System
(External Controller)

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.

M5601

C2000

TC20

CB40

COLOR | **4** CAMERA EXPANDABLE

Gemineye™ – K5602
CAMERA / DATA STORAGE SYSTEM

5.6" LCD B&W System
(Integral 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.

M5600

TC20

C1000

COLOR | **2** CAMERA EXPANDABLE

cables

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

Gemineye™
CAMERA / DATA STORAGE SYSTEM

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 – **Gemineye™**
CAMERA / DATA STORAGE SYSTEM

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.

M7000

C2000

TC20

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.

COLOR | **2** CAMERA EXPANDABLE

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.

Gemineye™ – K7001
CAMERA / DATA STORAGE SYSTEM

7.0" LCD Color System
(External Controller)

M7001

C2000

TC20

CB40

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.

COLOR | **4 CAMERA EXPANDABLE**

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.

Gemineye™ – K7002
CAMERA / DATA STORAGE SYSTEM

7.0" LCD Color System
(External Split Screen Controller)

M7001

C2000

TC20

CB41

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.

COLOR | **4 CAMERA EXPANDABLE** | **SPLIT SCREEN**

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cables

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

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)	Dimensions:	Flange Dia. - 1.22
Power consumption:	≤1.2W		Body Dia. - 1.06
Mechanical vibration:	8G		Length - 1.83
Image:	1/4" Sony CCD	Operating temp:	-22˚F to +149˚F
Lens angle:	150˚	Plug:	4 pin
Weight:	.3 lbs	IP rating:	IP68

controllers

DVR COMPATIBLE

Gemineye™

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/VCR 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))

Gemineye™

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)

Gemineye™

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

Gemineye™

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)

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

M500   M3500   M5600   M5601   M7000   M7001

2 choose camera(s)

max 2   max 2   max 2   max 4   max 2   max 4

C101   C2004   C1000   C1000   C1000   C1000

* 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.

C2000   C2000   C2000   C2000

C2002   C2001 *   C2002   C2001 *

C2003   C2002   C2003   C2002

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

C2004 **   C2003   C2004 **   C2003

C2004 **   C2004 **

3 choose a controller

NA   NA   NA

CB20   *** 2 camera controller (6 pin) Use with DVR.

CB20   *** 2 camera controller (6 pin) Use with DVR.
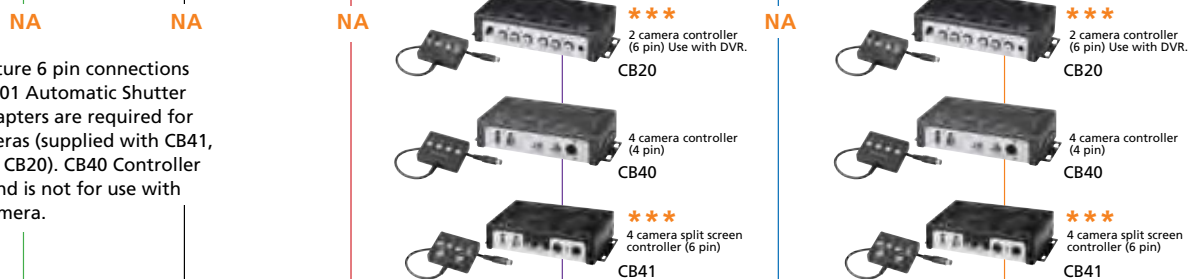
*** CB20 & CB41 Controllers feature 6 pin connections to allow functionality of C2001 Automatic Shutter Camera. ADPT-46 4-6 Pin Adapters are required for the connection of 4 pin cameras (supplied with CB41, order separately when using CB20). CB40 Controller features 4 pin connections and is not for use with C2001 Automatic Shutter Camera.

CB40   4 camera controller (4 pin)

NA

CB40   4 camera controller (4 pin)

CB41   *** 4 camera split screen controller (6 pin)

CB41   *** 4 camera split screen controller (6 pin)

4 choose cable(s)

NA   NA   max 2   max 4   max 2   max 4

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

(C101 cameras supplied with T60 cable)

(M3500 supplied with 5m/16' 2 camera cable)

TC05	TC20
TC10	TC-TT10
TC15	TC-TT20

TC05	TC20
TC10	TC20-6 ****
TC15	TC-TT10
	TC-TT20

TC05	TC20
TC10	TC-TT10
TC15	TC-TT20

TC05	TC20
TC10	TC20-6 ****
TC15	TC-TT10
	TC-TT20

5 choose digital video recorder/memory

DVR04A (4 channel DVR)

DVM80A - 80GB
DVM120A - 120GB

DVR04A (4 channel DVR)

DVM80A - 80GB
DVM120A - 120GB

NA   NA   NA   NA

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 Dome	R159-901X	R109-906X
Lower Dome	R309-902C	R209-907C

UPPER CENTER

UPPER END

60 Series - 22" - Evolution®

TYPE	AMBER	BLUE	CLEAR	RED
Lens	R5150LA	R5150LB	R5150LC	R5150LR
Dome	R5101LA	R5101LB	R5101LC	R5101LR

70 Series - 22"

TYPE	AMBER	BLUE	CLEAR	RED
Lens	R6050LA	R6050LB	R6050LC	R6050LR
Dome	R5400LA	R5400LB	R5400LC	R5400LR
Filter	A5000FA	A5000FB	-	A5000FR

5135 / 5150 Series - 15" - Blaze II®

TYPE	AMBER	BLUE	CLEAR	RED
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			
			SHORT (10.2"/ 260mm)		LONG (15.4"/ 390mm)	
	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			
			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

END MID CENTER MID END

END CENTER END
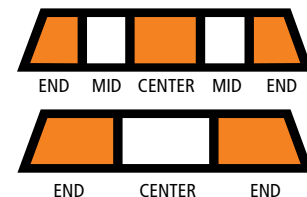
Lightbar Mounting Hardware

PART NO.	DESCRIPTION	USED WITH
	HOOK-ON ROOF MOUNTS	
A1010RMK	Ford truck 1/2T, 04-05	10 / 20 Series
A1011RMK	Dodge truck 1/2-1T, 02-05 GM truck 1/2-1T, 99-05	10 / 20 Series
A1012RMK	Ford truck 3/4-1T, 99-05	10 / 20 Series
A1013RMK	Ford Crown Vic, 98-05	10 / 20 Series
A1014RMK	Ford truck 1/2T, Crew Cab 97	10 / 20 Series
A1016RMK	Ford truck 1/2T, 04-05	15 / 30 Series
A1017RMK	Dodge truck 1/2-1T, 02-05 GM truck 1/2-1T, 99-05	15 / 30 Series

PART NO.	DESCRIPTION	USED WITH
	HOOK-ON ROOF MOUNTS	
A1018RMK	Ford truck 3/4-1T, 99-05	15 / 30 Series
A1019RMK	Ford Crown Vic, 98-05	15 / 30 Series
A1020RMK	Ford Truck, 1/2T Crew Cab, 97	15 / 30 Series
A5001RMK	Rubber Feet Kit	60 / 70 Series
A5002RMK	Universal Gutterless	60 / 70 Series, 48"- 60"
A5003RMK	Universal Gutter A5003RMK	60 / 70 Series, 48"- 60"
A5005RMK	Rubber Feet Kit	15 / 30 Series

Mounting Hardware

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

A6600SLB

A6400MBP

A6400MB

A6522PF

A6600VDK

A6600MK

A5850TB   A5850LB

R2140GR   R2160GO

A9894   A9895

Bulbs / Tubes / LED Modules

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

Lamp Assemblies

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

R209-908   R209-917

R6003RA   R209-913

Belts, Reflectors & Filters

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

A9000AMP

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

A6050BG

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
R159-942	Lens retaining screw	Series
R309-942	Lens retaining screw	15 Series
R209-921	Lens joining clip	30 Series
R0004	End cap	10 / 15 / 20 / 30 Series
R0005	Baffle-amber	60 / 70 Series
R0006	Baffle-clear	70 Series
R0007	Baffle-amber	70 Series
R0008	Baffle-clear	60 Series
		60 Series

R109-927   R209-921

Switches & Control Boxes

PART NO.	DESCRIPTION	USED WITH
A9000	Switchbox - 6 switch 12V	
A9901	Illuminated 12V	
A9891	Illuminated 12V-Amber-SPST	
A9892	Illuminated 24V-Amber SPST	
A9902	Bracket - end section	A9901
A9903	Bracket - center section	A9901
A9904	Bracket mounting kit	A9901 / A9902 / A9903
A9893	Switch panel - single slot	A9891 / A9892
R3000CB	Director Controller	3000, 3200 Series
R3300CB	LED Director Controller	3300, 3400 Series
RM4DIRC	Director Controller (LED/Halogen)	10, 15, 20, 30 Series

Signal Bars

PART NO.	DESCRIPTION	USED WITH
R3015LB	With 15' cable, Incandescent 12V	Model 3015
R3215LB	With 15' cable, Incandescent 24V	Model 3215
R3015HLB	With 15' cable, Halogen 12V	Model 3015H
R3315LB	With 15' cable, LED 12V	Model 3315
R3415LB	With 15' cable, LED 24V	Model 3415
R3235LB	With 35' cable, Incandescent 12V	Model 3235
R3035LB	With 35' cable, Incandescent 24V	Model 3235
R3035HLB	With 35' cable, Halogen 12V	Model 3035H
R3335LB	With 35' cable, LED 12V	Model 3335
R3435LB	With 35' cable, LED 24V	Model 3435
R3055LB	With 55' cable, Incandescent 12V	Model 3055
R3055HLB	With 55' cable, Halogen 12V	Model 3055H
R3355LB	With 55' cable, LED 12V	Model 3355
R3455LB	With 55' cable, LED 24V	Model 3455
R3000EC	End Cap	3000, 3200 Series

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 SA901 5813A-MG	6770A 5135A-VM	
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	510 530 SA901 3810A	5813A-MG 6570A 6770A 6650A	5135A-VM
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	510 530 SA901 3810A	5813A-MG 6570A 6650A 6770A	5135A-VM 5150CAA

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	6mo/2yrs	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 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	Warranty	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 STUD	Connection WIRE	Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
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 STUD	Connection WIRE	Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
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 STUD	Connection WIRE	Dimensions (L x W x H or Dia x W)	Warranty	Housing Material
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

ECCO GROUP®

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ECCO Boise, Idaho U.S.A.

NOVA ELECTRONICS Colchester, Connecticut U.S.A.

HAZARD systems Launceston, Tasmania, Australia

ECCO Group Headquarters
Boise, Idaho

Colchester, Connecticut

Leeds, England

Launceston, Tasmania

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

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