



Mobile Equipment Safety

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Mobile Equipment Safety

Audible Warning



MATRIX

MF Series

Multi-Frequency Back-up Alarm



EA7070



EA5050



EA6100

The Preco Multi-Frequency back-up alarm provides a safe warning signal for those in the danger zone of backing vehicles while minimizing disturbance to work site neighbors. This alarm operates by emitting sound at multiple frequencies attenuated above 4000Hz so that the sound is perceived to dissipate more quickly than a conventional pure-tone alarm.

Features

- Universal mounting bracket
- Shh-shh multi-frequency
- SAE J994 Type F & B, AMECA, CE, R10
- ECCO Life - Vehicle Life Warranty
- Sealed in epoxy for protection against dust, moisture, and vibration
- Dim (DxWxH): 3.2x7.0x4.0" (81x178x102mm)
- Weight: 2.5 lbs (1.13 kg)

Applications: for con ned or densely populated work areas where noise pollution needs to be minimized

Part No.	Type	Approval	Warranty	Loudness (Db)	Voltage	Amps (12V)
MF102	Fixed	SAE Type F, CE, R10	Vehicle Life	102 Db	12-24V	0.6A
MF107	Fixed	SAE Type B, CE, R10	Vehicle Life	107 Db	12-24V	0.8A
EA7070	Fixed	SAE Type B, CE, R10	ECCO Life	107 Db	12-24V	0.8A
EA7020	Fixed	SAE Type F, CE, R10	ECCO Life	102 Db	12-24V	0.6A
EA9070	Adjustable	SAE Type F, CE, R10	ECCO Life	87-107 Db	12-24V	0.9A
EA5050	Fixed	SAE Type D, CE, R10	2 Years	87 Db	12-24V	0.34A
EA5200	Fixed	SAE Type C, CE, R10	2 Years	97 Db	12-24V	1.0A
EA5920	Fixed	SAE Type F, CE, R10	2 Years	92 Db	12-24V	0.5A
EA6100	Fixed	SAE Type C, CE, R10	2 Years	97 Db	12-24V	0.7A

Preco Self-Adjustable Alarms

Preco Self-Adjustable Alarms



1020 1028 1040 1045 1059

Product	Type	Loudness (Db)	Voltage	Amps (12V)	Warranty	Dimensions (LxHxD)	Approval
1020	Tonal Self-adjustable	77-102	12-24V DC	0.2A	2 Years	7.2x4.0x3.2" (183x102x81mm)	SAE Type F, UL
1028	Tonal Self-adjustable	77-97	12-48V DC	0.2A	2 Years	7.2x4.0x3.2" (183x102x81mm)	UL
1040	Tonal Self-adjustable	87-112	12-24V DC	1.3A	2 Years	5x3.1x3.8" (127x79x97mm)	CE, R10, IP66
1045	Tonal Self-adjustable	97-112	12-24V DC	1.3A	2 Years	5x3.1x3.8" (127x79x97mm)	CE, R10, IP66
1059	Tonal, Worble, Self-adjustable	87-112	12-24V DC	0.9A	2 Years	5x3.1x3.8" (127x79x97mm)	CE, R10, IP66

Fixed Db Alarms

Preco Self-Adjustable Alarms



PRE-110 PRE-112 PRE-240 PRE-250 PRE-270 PRE-FS255

Features

- Stud terminal connection
- Encapsulated electronics

Product	Type	Loudness (Db)	Voltage	Amps (12V)	Warranty	Dimensions (LxHxD)	Approval
110	Tonal 100 Series	112	12-24V DC	1.5A	2 Years	7.2x4.0x3.2" (183x102x81mm)	CE, R10, Type A
112	Tonal 100 Series	97/107/112	12-36V DC	1.3A	2 Years	7.2x4.0x3.2" (183x102x81mm)	SAE Type A, CE, R10
240	Tonal 200 Series	97	12-24V DC	0.23A	2 Years	4x2.6x1.6" (102x66x41mm)	SAE Type A, B & C, CE, e
250	Tonal 200 Series	102	12-24V DC	0.4A	2 Years	4x2.6x1.6" (102x66x41mm)	SAE J994 Type C, CE, R10
270	Tonal 200 Series	107	12-24V DC	1.2A	2 Years	4x2.6x1.6" (102x66x41mm)	SAE J994 Type F, CE, R10
FS255	Fast Sounding Tonal	102	12-24V DC	0.3A	2 Years	4x2.6x1.6" (102x66x41mm)	CE, R10

Mobile Equipment Lighting

Audible Warning



500 Series

Features

- ECCO compact design
- Stud terminal connection

Product	Type	Voltage	Loudness (Db)	Amps (12V)	Bolt	Warranty	Dimensions (LxHxD)	Approval
520	SRC	12-24V DC	97 Db	0.2A @ 12V DC	2 Bolt	2 Years	2.8 x 4 x 1.6 inches (71 x 102 x 41 cm)	CE, R10, Type A UL AMECA, IP65
530	SRC	12-24V DC	102 Db	1.0A @ 12V DC	2 Bolt	2 Years	2.8 x 4 x 1.6 inches (71 x 102 x 41 cm)	SAE Type A, CE, R10, UL, AMECA, IP65



520

530

SCR – monitors the frequency of the alarms sound output on each side and adjusts to the optimum frequency.

600 Series



Smart Alarm – listens, adjusts, reacts

Features

- ECCO reverse mounted speaker protects against dust, moisture and vibration
- Encapsulated electronics

Product	Type	Voltage	Loudness (Db)	Amps (12V)	Bolt	Warranty	Dimensions (LxHxD)	Approval
630M	Tonal Smart Series	12-36V	107 Db	1.2A	2 Bolt	ECCO LIFE	3.1 x 5.0 x 2.7 inches (78 x 127 x 68 cm)	SAE J994 Type B, CE, R10, UL, AMECA

700 Series



Features

- ECCO smart alarm
- OEM popular design
- Encapsulated electronics

Product	Type	Voltage	Loudness (Db)	Amps (12V)	Warranty	Dimensions (LxHxD)	Approval
777	Tonal Smart Series	12-24V	97/107/112 Switchable	0.8A	2 Years	3.3 x 7.1 x 4 inches (84 x 181 x 102 cm)	SAE J994 Type A, B, C, CE, R10, IP66

Mobile Equipment Lighting

Audible Warning



700 Series

Features

- ECCO reverse mounted speaker protects against dust, moisture and vibration
- Encapsulated electronics
- ECCO-LIFE - Life of Vehicle Warranty

Product	Type	Voltage	Loudness (Db)	Amps (12V)	Warranty	Dimensions (LxHxD)	Approval
SA914N	Tonal Smart Series	12-24V	87-112 Db	1.5A	ECCO LIFE	4.2 x 7.1 x 3.1 inches (105 x 180 x 78 cm)	SAE J994 Type F, CE, R10
SA917N	Tonal Smart Series	12-24V	87-112 Db	1.5A	ECCO LIFE	4.2 x 5.7 x 3.1 inches (105 x 146 x 79 cm)	SAE J994 Type F, CE, R10
850N	Tonal Fixed	12-36V	112 Db	1.3A	ECCO LIFE	4.2 x 5.7 x 3.1 inches (105 x 146 x 79 cm)	SAE J994 Type A, CE, R10, UL, AMECA
876N	Tonal Fixed	12-36V	112 Db	1.3A	ECCO LIFE	4.2 x 5.7 x 3.1 inches (105 x 146 x 79 cm)	SAE J994 Type A, CE, R10, UL, AMECA



850N



876N



SA914N



SA917N

Disc Horns

Features

- High frequency disc horn
- Heavy-duty copper wire motor
- Universal mounting bracket
- Steel corrosion-resistant finish.
- Dimensions: 2.63" (67mm) High, 3.63" (92mm) Ø diameter.

Product	Model	Loudness	Voltage	Amps (12V)	Additional Information
FIA-52240	HK9	130dB @ 1.2m	12V DC	5A	HK9 Disc Horn 12V DC
FIA-7360012	HK9E	130dB @ 1.2m	24-48V DC	5A	HK9E Disc Horn 24-48V DC
FIA-7364011	HK/9E	1130dB @ 1.2m	12-24V DC	5A	HK/9E Disc Horn 12-24V DC

Parts

FIA-2132311

Additional Information

Fulltone Repair Kit/Horn Replacement Kit, (2) Membranes, (2) Covers, (2) Gaskets, (6) Screws.
Dim: (WxHxL) 3x0.5x3" (76.2x12.7x76.2mm). 3" (76.2mm) Ø diameter.



FIA-52240



FIA-7360012



FIA-7364011

Mobile Equipment Lighting

Audible Warning



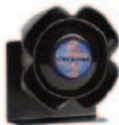
MATRIX

Emergency Vehicle Warning Speakers and Sirens

Product	Type	Dimensions (DxWxH)	Functions	Voltage	Additional Information
STA-D-44	Speaker	6.6" x 2.9" x 6.6" (167.64x73.66x 167.64mm)	N/A	32V DC	N/A
STA-D-60	Speaker	7 1/4"x8"x 5 1/4" (184.15x203.2x133.35mm)	N/A	12V DC	N/A
STA-LCS800-008	Siren/Amp Controller	7/8"x7 11/16"x4 11/64" (22.22x195.26x105.96mm)	8 Light Functions	10-16V DC	Exceeds Acoustical and environmental requirements of SAE J1849,* California Title 13, Class A* (* when used with SVP drivers)
STA-SS651-013	Siren	4"x6 5/16"x2" (101.6x160.33x50.8mm)	20 programmable siren tones	12V DC	Exceeds acoustical and environmental, requirements, SAE J1849, California Title 13
STA-SS670	Siren	4 11/16"x6"x2" (119.06x152.4x 50.8mm)	26 programmable siren tones	12V DC	Exceeds acoustical and environmental requirements, SAE J1849, California Title 13
STA-SS700-013	Siren	5 13/16"x6"x2 3/8" (147.63x152.4x 60.32mm)	24 programmable siren tones	12V DC	Exceeds acoustical and environmental requirements, SAE J1849, California Title 13
STA-SB4020	Amp Switch Box	4 3/4"x6"x2" (120.65x 152.4x50.8mm)	40A and 20A Switches	10-16V DC	2' wire harness, 5lgs (2.26kg)

Star Warning 1889 Speakers

Star Warning 1889 Sirens



STA-D-44



STA-D-60



STA-LCS800-008



STA-SS651-013



STA-SS670



STA-SS700-013



STA-SB4020

Model 52



Resonating Horn

The Federal Signal Model 52 resonating horn produces 114dBa @ 10 feet (124dBa @ 1m) with a 1,000 foot range. It is capable of penetrating high ambient noise levels. Being electrically-activated, the Model 52 does not require an air compressor for operation. The Model 52 is able to withstand the shocks, vibrations, dust and atmospheric conditions encountered in off-road use. The operating temperature range is -40°F to 185°F (-40°C to 85°C).

Rubber gaskets and a power connector make the Model 52 completely watertight. The projector and internal parts are made of zinc-coated steel or stainless steel to resist corrosion; the exterior is sealed with grey enamel paint. The housing is die-cast aluminum. Tied and adhesive-bonded internal wiring helps prevent electrical shorts, wire breakage, and loose connections. The Model 52 is available in 24VDC. It's 18-32V operating range allows for voltage inconsistencies. The Model 52 has a duty cycle of five minutes on and five minutes off.

Quick Tech Specs

Decibel Output	114dBa @ 10
Voltage	24V DC
Operating Current	4.0A @24V DC
Operating Temp	-40°F to 85°F
Duty Cycle	5 min. on, 5 min. off
Enclosure Rating	Type 4X
Mount	Surface mount with flanges

Features

- Available in 24VDC
- Withstands extreme outdoor conditions
- Produces 114dBa @ 10' (124dBa @ 1m)
- Surface mount with flanges
- Dim (HxWxD): 8.5x7.5x21.5" (216x 190.5x546mm)
- Weight: 10 lbs (4.54kg)

Application

Heavy/Off-road vehicles, mining and construction etc.

Product	Volume (dB)	Voltage	Amps (12V)
NBH52-24V	114dB @ 10m 124dB @ 1m	12V DC	4.0A

Mobile Equipment Lighting

Audible Warning



Marinco Electric Horns

Product	Volume (dB)	Type	Voltage	Amps (24V)	Additional Information
AFI-10017XL	118dB @ 1m	Single Trumpet Electric Horn	24V DC	2.5A	100% stainless steel for marine applications, frequency: 370 +/- 20Hz, 16.5" L x 4" W x 4.75" H, 5 year warranty
AFI-10018XL	123dB @ 1m	Dual Trumpet Electric Horn	24V DC	5A	100% stainless steel for marine applications, frequency: 370 +/- 20Hz ; 310 +/- 20H, 18.5" L x 8" W x 5" H, 5 year warranty

Marinco Electric Horns

24V Single Trumpet Electric Horn



AFI-10017XL

24V Dual Trumpet Electric Horn



AFI-10018XL

Why Update to LED Lighting?

Our goal is to provide your operation with the best lighting solution to support your safety and productivity goals.

More light isn't always the best solution. Selecting the right fixtures, the right setup (orientation/tilt/mounting position) and ensuring these solutions are simple and repeatable is key.

Even a small percentage decrease each day in electrical utility costs can add up to big savings.

Matrix offers a free LED upgrade ROI analysis to support lighting upgrade decisions.

Mobile Equipment Lighting

Visual Warning - LED Beacons - Class I



Class I LED Beacons – Rotating

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
7660 RotoLED™	6.2" (156mm) High, 6.5" (165mm) Ø		12-24V DC	2.1A @ 12V DC	125 FPM	5 Years	3 Bolt or Vacuum-magnet (VM) mount, SAE J845 Class I, CE, R10, IP67, Cal. Title 13 (A & C/A only), RoHS. No gears, brushes, or bulbs to wear out. LED optics and UV hard-coated lens.
5280 RotoLED™	5.8" (146mm) High 13.3" (337mm) Wide, 6.3" (160mm) Deep		12-24V DC	4A @ 12V DC	360 FPM	5 Years	Magnet mount versions available. ADD -MG to part number for magnet mount models. SAE J845 Class I, CE, R10, IP67

ECCO 7660 RotoLED™



7660A



7660A-VM

ECCO 5280 RotoLED™



5220A

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red
VM = Vacuum-magnet mount

Parts Example: **7660C** = 7660, Clear, 3 Bolt mount
7660A-VM = 7660, Amber, Vacuum-magnet mount

Class I LED Beacons – Flash

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
7960 Pulse™	5.6" (142mm) High, 6.5" (165mm) Ø		12-24V DC	3.7A@ 12V DC	11 patterns	5 Years	3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, CE, R10, IP56, RoHS. Hi/Lo intensity. Encapsulated electronics for severe vibration applications. Replacement lenses available.
EB7 180 RotoLED™	2.3" (58mm) High, 6.5" (165mm) Wide 6.5" (165mm) Deep		12-24V DC	6.2A @ 12V DC	8 patterns including simulated rotate mode	3 Years	4 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, Cal. Title 13, R10, IP55, AME- CA. Compact, low-profile beacon. Synchronization capable.
EB7 185 (Dual-color LED)	3.3" (84mm) High, 6.5" (165mm) Wide 6.5" (165mm) Deep		12-24V DC	6.2A @ 12V DC	24 patterns including rotate mode	3 Years	4 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, Cal. Title 13, R10, IP55, AME- CA. Compact, low-profile beacon. Hi/Lo intensity. Synchronization capable.
7460 Profile™	3.1" (79mm) High, 6.4" (163mm) Ø		12-24V DC	3.6A@ 12V DC	180 FPM x 8	5 Years	3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, CE, IP67. Compact and low-profile. Reflective LED module. Overhead heat-sink design provides aesthetic pipe mounting.
7160 Reflex®	3.9" (99mm) High, 6.5" (165mm) Ø		12-24V DC	2A @ 12V DC	15 patterns	5 Years	3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, Cal. Title 13, CE, R10, IP66, RoHS. Synchronization capable. Hi/Lo intensity. Encapsulated electronics. Lenses available.
7900 Series	7965/75: 4.9" (124mm) High, 6.5" (165mm) Ø 7970/80: 6.7" (170mm) High, 6.5", (165mm) Ø		12-24V DC	36A @ 12V DC	80 FPM x 8	5 Years	3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, CE, R10, RoHS (7965A/7970A only). Encapsulated electronics for severe vibration applications (7975/7980 only). Aluminum base. Replacement lenses available.

ECCO 7960 Pulse™



7960A



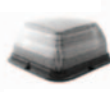
7960A-VM

ECCO EB7180



EB7180A

ECCO EB7185



EB7185AAA

ECCO 7460 Profile™



7460A

ECCO 7160 Reflex™



7160A
(Simulated
Rotation)

ECCO 7900 Series



7965A



7965A-VM



7970A



7970A-VM



7980A

III Mobile Equipment Lighting

Visual Warning - LED Beacons - Class II/III



Class II LED Beacons

Product	Color	Flash Pattern	Voltage	Amps	Flash Rate	Warranty	Additional Information
PRE-7512A		Pulse8	12-48V DC	1.3A @ 12V DC	70	2 Years	SAE J845 Class II
PRE-7513A		Pulse8	12-48V DC	1.3A @ 12V DC	70	2 Years	SAE J845 Class II
PRE-7960A		Double/Quad	12-48V DC	1.3A @ 12V DC	70	2 Years	IP67

PRECO Class II LED Beacons



PRE-75 12A



PRE-75 13A



PRE-7960A

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red
VM = Vacuum-magnet mount

Parts Example: **7660C** = 7660, Clear, 3 Bolt mount
7660A-VM = 7660, Amber, Vacuum-magnet mount

Class II LED Beacons - Flash

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
7900	7945: 4.9" (124mm) High, 7950: 6.7" (170mm) High, 6.5" (165mm) Ø		12-24V DC	1.3A@ 11 12V DC	patterns	2 Years	3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class II, CE, R10, RoHS (7945A/7950A only). Reinforced polypropylene base. Replacement lenses available

ECCO 7900 Series



7945A



7945A-VM



7950A



7950A-VM

Class III LED Beacons

Product	Color	Flash Pattern	Voltage	Amps	Flash Rate	Warranty	Additional Information
PRE-7314A		Pulse8	12-80V DC	0.2A @ 12V DC	85	3 Years	SAE J845 Class III, CE, R10, UL
PRE-7414A		Pulse8	12-80V DC	1.3A @ 12V DC	70	3 Years	SAE J845 Class III, CE, R10, UL, IP66/67

PRECO Class III LED Beacons



PRE-73 14A



PRE-74 14A

Mobile Equipment Lighting

Visual Warning - LED Beacons - Class III



Class III LED Beacons – Flash

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
6465	3.9" (99mm) High, 5.1" (130mm) Ø		12-80V DC	1.9A@ 12V DC	85 FPM x 8	3 Years	3 Bolt or Magnet mount (MG), SAE J845 Class III, CE, R10, UL 6465A only . RoHS (6465A only). Industrial applications. Reinforced nylon base. Ideal for material handling equipment.
6262	6262/63 : 4.9" (124mm) High, 3.9" (98mm) Wide 6267 : 4.9" (124mm) High 2.8" (71mm) Ø		12-80V DC	0.47A@ 12V DC	70 FPM x 8	3 Years	2 Bolt or 1/2" Pipe mount (6267A only), SAE J845 Class III, CE, R10, UL, IP66/67, RoHS. Industrial applications. Encapsulated electronics extended product life. Ideal for material handling equipment.
6410	3.9" (99mm) High, 5.1" (130mm) Ø		12-80V DC (6410A) 12-80V DC (6410A-MG)	0.3A@ 12V DC	70 FPM x 1	2 Year Strobe 6 Month Tube	3 Bolt or Magnet mount (MG), CE, R10, UL (6410A only). Industrial applications. Reinforced nylon base. Ideal for material handling equipment. Replacement lenses and flash tubes available

ECCO 6465



6465A



6465A-MG



64 10A



64 10A-MG

ECCO 6262 Series



6262A
(Wire exit: side)



6263A
(Wire exit: bottom)



6267A

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red
MG = Magnet mount


Parts Example: **6465C** = 6465, Clear, 3 Bolt mount
6465A-MG = 6465, Amber, Magnet mount

Mobile Equipment Lighting

Visual Warning - Low-Intensity Rotators - Class I



Class I Halogen Rotators

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
5800	5810: 8.2" (208mm) High, 5813: 5.7" (146mm) High, 5813: 6.0" (153mm) Ø 5816: 7.3" (185mm) High, 5810/16: 5.3" (134mm) Ø		12V DC	4.9A@ 12V DC	195 FPM	1 Year Rotator 3 Month Bulb	3 Bolt mount (5813A) or Magnet mount (5813A-MG), DIN Pole mount (5810A), 1 Bolt mount (5816A), SAE J845 Class I, R10, R65. Belt-drive rotator mechanism, Polycarbonate base. Free-form optical reflector maximizes light output. Replacement lenses and bulbs available.

ECCO 5800 Series



6465A



6465A

Abbrev: **A** = Amber
MG = Magnet mount

Parts Example: **5813A** = 5813, Amber, 3 Bolt mount
5813A-MG = 75813, Amber, Magnet mount

Mobile Equipment Lighting

Visual Warning - Strobe - Class I & II



MATRIX

Class I and II Strobes

Product	Color	Flash Pattern	Voltage	Amps	Flash Rate	Warranty	Additional Information
PRE-3318A	Amber	Single	12-110V DC	0.25A @ 12V DC	80	2 Years	CE
PRE-4243A	Amber	Double/Quad	12-48V DC	2.5A@ 12V DC	80/65	2 Years	SAE J1318 Class II, CE, R10
PRE-4262A	Amber	Double/Quad	12-48V DC	3.7A @ 12V DC	65	2 Years	SAE J1318 Class I
PRE-4263A	Amber	Double/Quad	12-48V DC	2.5A@ 12V DC	80/65	2 Years	SAE J1318 Class II, CE, R10
PRE-FT4203	Clear	-	12-48V DC	-	-	6 Months	Flashtube
PRE-MK4200	N/A	N/A	N/A	N/A	N/A	1 Year	Magnet Kit
PRE-MKS4200-6	N/A	N/A	N/A	N/A	N/A	1 Year	Magnet Kit with Cord
ECCO-9007C	N/A	N/A	12V DC	N/A	N/A	6 Months	N/A

PRECO Visual LED Strobes

Parts



PRE-33 18A



PRE-4243A



PRE-4262A



PRE-4263A



PRE-MK4200



ECCO-9007C



PRE-FT4203

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red
VM = Vacuum-magnet mount

Parts Example: **6650C** = 6650, Clear, 3 Bolt mount
6650A-VM = 6650, Amber, Vacuum-magnet mount

Class II Strobes

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
6600 Series	6.7" (170mm) High, 6.5" (165mm) Ø	Amber	12-24V DC	2.2A@ 12V DC	65 FPM	2 Years Strobe 6 Month Tube	3 Bolt/1" Pipe or Vacuum-magnet (VM) mount, SAE J1318 Class II, CE, R10. Double or quad flash. Hi/Lo intensity. Aluminum base. Replacement lenses and flash tubes available.
6500 Series	6550: 4.8" (121mm), High, 6570: 6.7" 6550/70: 6.5" (165mm) Ø	Amber	12-48V	2.2A@ 12V DC	6550/70A: 80 FPM x 2 65 FPM x 4 6550/70-A VM: 80 FPM x 2	2 Years Strobe 6 Month Tube	3 Bolt/1" Pipe or Vacuum-magnet (VM) mount, SAE J1318 Class II, CE, R10. Aluminum base. Reinforced polypropylene base. Replacement lenses and flash tubes available.

ECCO 6600 Series

ECCO 6500 Series



6650A



6650A-VM



6550A



6550A-VM



6570A



6570A-VM

Mobile Equipment Lighting

Visual Warning - LED Lightbar



MATRIX

Rotation LED Minibars

Product	Operating Temp.	Color	Voltage	Amps	Type	Warranty	Additional Information
5235A	-22°F to +122°F	Yellow	12-24V DC	11.0A@ 12V DC	Rotation	2 Years	SAE J845 Class I, CE, IP54

ECCO 5135A Rotate



5135A



5135A-VM

Class I LED Lightbar

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
12 Series Vantage™	54" (1371.6mm) Long 2.5" (64mm) High, 11" (279mm) Wide	Multi-color (Amber, Blue, Clear, Green, Red)	12-24V DC	6.5A@ 12V DC	24 Patterns	3 Years	10 x LED warning modules, and 2 x LED worklamp modules, and 2 x LEG stop-tail-turn modules. SAE J845 Class I, Cal. Title 13, CE, R10. Aluminum chassis, polycarbonate base and lens. Each lightbar is shipped with 'controller-ready' wiring for fast, easy installation. Optional 12 Series Lightbar Controller available.

ECCO 12 Series Vantage™



54" (12-00007-E)

Light Bar Icon Keys:

- LED Warning module
- LED Stop-Tail-Turn module
- LED Work Lamp module
- LED Alley Light module



15 Series Lightbars

Product	Color	Length	Type	Voltage	Amps	Flash Pattern	FMP (x4)	Warranty	LEDs
EC-15-00011-E	Yellow	23"/0.58m	TIR	12V DC	0.8A @ 12V DC	Quad	80	2 Years	4
EC-15-00013-E	Yellow	23"/0.58m	TIR	12V DC	1.2A @ 12V DC	Quad	80	2 Years	6
EC-15-00015-E	Yellow	23"/0.58m	TIR	12V DC	1.6A @ 12V DC	Quad	80	2 Years	8
EC-15-00019-E	Yellow	23"/0.58m	TIR	12V DC	2.0A@12VDC	Quad	80	2 Years	10
EC-15-01423-E	Yellow	23"/0.58m	Reflective	12V DC	2.8A@12VDC	Quad	80	2 Years	4
EC-15-01427-E	Yellow	23"/0.58m	Reflective	12V DC	4.2A@12VDC	Quad	80	2 Years	6
EC-15-01428-E	Yellow	23"/0.58m	Reflective	12V DC	5.6A @ 12V DC	Quad	80	2 Years	8
EC-15-01429-E	Yellow	23"/0.58m	Reflective	12V DC	7.0A @ 12V DC	Quad	80	2 Years	10
EC-15-00035-E	Yellow	39"/0.98m	TIR	12V DC	1.6A @ 12V DC	Quad	80	2 Years	8
EC-15-00036-E	Yellow	49"/1.24m	TIR	12V DC	1.6A @ 12V DC	Quad	80	2 Years	8
EC-15-00037-E	Yellow	49"/1.24m	TIR	12V DC	3.2A @ 12V DC	Quad	80	2 Years	16
EC-15-01424-E	Yellow	49"/1.24m	Reflective	12V DC	4.9A@12VDC	Quad	80	2 Years	16
EC-15-00038-E	Yellow	54"/1.37m	TIR	12V DC	2.9A@12VDC	Quad	80	2 Years	14
EC-15-01426-E	Yellow	54"/1.37m	Reflective	12V DC	4.3A@12VDC	Quad	80	2 Years	14
EC-15-00039-E	Yellow	54"/1.37m	TIR	12V DC	3.0A @ 12V DC	Quad	80	2 Years	15
EC-15-01425-E	Yellow	54"/1.37m	Reflective	12V DC	4.6A@12VDC	Quad	80	2 Years	15
EC-15-01255-E	Yellow	54"/1.37m	TIR	12V DC	4.0A@12VDC	Quad	80	2 Years	20

ECCO Streetlazer 15 Series



EC-15-00013-E



EC-15-01255-E

Mobile Equipment Lighting

Visual Warning - LED Lightbar



Lightbar Controller (Optional)

Product	Dimensions	Flash	Description
EZ0006	3.6" (90mm) High, 5.9" (149mm) Wide, 0.7" (18mm) Deep	24 Patterns	The optional 12 Series Lightbar Controller provides convenient and easy control of the 24 built-in flash patterns and auxiliary LED modules (where applicable). Simply plug-n-play.

No. Pattern	Description	No. Pattern	Description
1 Steady Burn	Always On	13 Quint Hold Diagonal	1150 Quint FPM Alternating Diagonal
2 Quad Flash	120 Quad FPM	14 Rotate	120 RPM
3 Double Flash	75 Double FPM	15 Rotate/Quad	120 RPM/75 Quad FPM
4 Slow Quad	65 Quad FPM	16 Wave Rotate	70 RPM
5 Slow Double	65 Double FPM	17 Quad Flash Alternate Front	150 Quad FPM Alt Side to Side (Front Only) 150
6 Quint Hold	75 Quint FPM	18 Quad Flash Alternate Rear	Quad FPM Alt Side to Side (Rear Only) 150 Double
7 Pulse8	75 Oct FPM	19 Double Flash Alternate Front	FPM Alt Side to Side (Front Only) 150 Double FPM
8 Quad Flash Alternate	150 Quad FPM Alternating Side to Side	20 Double Flash Alternate Rear	Alt Side to Side (Rear Only) 150 Quint FPM Alt Side
9 Quad Flash Diagonal	150 Quad FPM Alternating Diagonal	21 Quint Hold Alternate Front	to Side (Front Only) 150 Quint FPM Alt Side to Side
10 Double Flash Alternate	150 Quad FPM Alternating Side to Side	22 Quint Hold Alternate Rear	(Rear Only) 150 Quad FPM Alt Side to Side (Center
11 Double Flash Diagonal	150 Quad FPM Alternating Diagonal	23 Quad Flash Alternate Center	Only) Cycle through patterns
12 Quint Hold Alternative	150 Quad FPM Alternating Side to Side	24 Cycle All	



ECCO EZ0006
In-cab Lightbar Controller
EZ0006

Installation

Product	Description
ER0002 (Standard Feet Kit)	Standard Feet Kit for 12 Series Vantage Lightbar. Features length-of-the-bar mounting tracks that make installation easy for any roof or flat mounting surface.
A1032RMK (Headache Rack Mounting Brackets)	Headache Rack Bracket for 12 Series Vantage Lightbar. Strap mounting kits for the most popular work vehicles as well as headache rack mounting brackets.

ECCO ER0002

Standard Feet Kit



EC-15-00013-E

ECCO A1032RMK

Headache Rack Mounting Brackets



EC-15-00013-E



ECCO Vantage lightbars feature individual power, control and auxiliary STT cables allowing for easy routing to the battery, power distribution module and the cab. The control cable is pre-wired to accept the plug-n-play or can be connected discretely.

Phazer/Razor Lightbars)

Product	Color	Length	Flash Patterns	Voltage	Flashing Functions
Phazer 1400		44 inches	20 different simultaneous patterns 39 warning patterns 9 Traffic Director patterns	12V DC	P1, P2, P3, P4, P5, left traffic, right traffic, ICL, DIM, takedown pursuit, alley, flash, turn left, turn right
Phazer 1550-SPECIAL		58 inches	20 different simultaneous patterns 39 warning patterns 9 Traffic Director patterns	12V DC	P1, P2, P3, P4, P5, left traffic, right traffic, ICL, DIM, takedown pursuit, alley, flash, turn left, turn right
Razor 2440		46 inches	30 different flash patterns	10-16V DC	NA
Razor 2540		56 inches	30 different flash patterns	10-16V DC	NA

Star Phazer Lightbars



1400/1550-SPECIAL

Star Razor Lightbars



2440/2540

Mobile Equipment Lighting

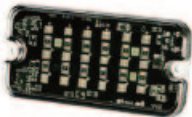
Visual Warning - LED Directional



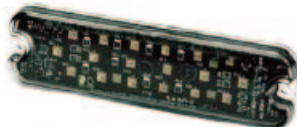
Compact Directional Warning Lights

Product	Voltage	Amps	LEDs	Temperature Range	Warranty	Flash Patterns	Approval
3931C	12V DC	0.5A	N/A	N/A	2 Years	16	IP66
3931R	12V DC	0.5A	N/A	N/A	2 Years	16	P66
3932C	12V DC	0.5A	N/A	N/A	2 Years	16	P66
3932R	12V DC	0.5A	N/A	N/A	2 Years	16	P66

ECCO Compact Warning Lights



3931C/3931R



3932C/3932R

Visor Light LED

Product	Color	Dimensions (DxWxH)	Flash Patterns	Voltage	Amps	Additional Information
VL22		8"x11.5"x4" (22.2x 292.1x 101.6mm)	30 Selectable Flash Patterns	10-16V DC	1.5A @ 12V DC	High intensity LED, auto-voltage adjust, visor mount only

Starvisor II Visor Light



VL22-RB

ED001 Series Class I Directional LED

The ECCO ED001 Series high output LED directional light meets SAE Class I requirements for light output and provides the convenience of either single bolt-bracket mount with thru-bolt wiring or conventional surface mount. Featuring a clear polycarbonate lens with four LEDs that illuminate amber, warning capability can be customized by selecting from 24 flash patterns and synchronizing multiple heads simultaneously or alternately.

Features

- 24 flash patterns
- Die-cast base and polycarbonate lens
- Weatherproof IP67 Rating
- SAE J595 Class I
- Temperature Range: -22°F to +122°F
- Colors: Clear, Amber, Blue, Green, Red
- Warranty: 1 year



Product	Color	Voltage	Amps (12V)	Flash Pattern	Watts
ED001C	Clear	12-24V	0.7A	24	25W
ED001G	Green	12-24V	0.7A	24	25W
ED001B	Blue	12-24V	0.7A	24	25W
ED001R	Red	12-24V	0.7A	24	25W
ED001A	Amber	12-24V	0.7A	24	25W

Mobile Equipment Lighting

Visual Warning - LED Directional



Class I LED Directional Lights

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
3510	1.5" (37mm) High, 3.67" (93mm) Wide, 0.5" (12mm) Deep		12-24V DC	0.75A @ 12V DC	16 patterns (Sync. capable)	5 Years	Surface 2 Bolt mount, SAE J595 Class I, California. Title 13, CE, R10. Compact high-intensity LED warning signal. In-line waterproof driver module. Available mounting options: Universal Bracket (A3510L), Chrome Bezel (A3510BZC), Multi-angle Bracket (A3510MA).
3811	2.1" (53mm) High, 5.9" (151mm) Wide, 1.2" (30mm) Deep		12-24V DC	0.4A @ 12V DC	7 patterns (Sync. capable)	3 Years	Surface 2 Bolt mount, SAE J595 Class I, CE, R10. Encapsulated electronics extend product life.
ED3700 Series (Solid or Split Color)	1.3" (33mm) High, 4.5" (115mm) Wide, 1" (25mm) Deep		12-24V DC	1.0A @ 12V DC	21 patterns (Sync. capable)	3 Years	Surface 2 Bolt mount, SAE J595 Class I, CE, R10. Four LED model with single or split-color options. Black bezel included.
3715	1.5" (38mm) High, 5.1" (130mm) Wide, 1.5" (38mm) Deep		12-24V DC	0.3A @ 12V DC	9 patterns (Sync. capable)	5 Years	Surface 2 Bolt mount, SAE J595 Class I, CE, R10. IP67. Encapsulated electronics extend product life.
3945 (Solid or Split Color)	5.2" (132mm) Ø, 1.3" (32mm) Deep		12-24 DC	0.5A @ 12V DC	8 patterns	1 Year	Round grommet, SAE J595 Class I. Solid or split-color grommet mount. Fits standard rear-lighting grommet.
3965 (Solid or Split Color)	2.2" (56mm) High, 7.4" (189mm) wide 1.5" (38mm) Deep		12-24 DC	0.5A @ 12V DC	8 patterns	1 Year	Oval grommet, SAE J595 Class I. Solid or split-color grommet mount. Fits standard rear-lighting grommet.

ECCO 3510



3510A

ECCO 3811



3811A

ECCO ED3700 Series



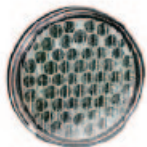
ED3704A

ECCO 3715



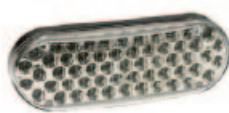
3715A

ECCO 3945



3945A

ECCO 3965



3965A

Abbrev: **A** = Amber **B** = Blue. **C** = Clear **G** = Green **R** = Red
VM = Vacuum-magnet mount

Parts Example: **7660C** = 7660, Clear, 3 Bolt mount
7660A-VM = 7660, Amber, Vacuum-magnet mount

Class II LED Directional Light

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
3735	1.3" (34mm) High, 3.7" (94mm) Wide, 1.5" (38mm) Deep		12-24V DC	0.3A @ 12V DC	11 patterns	1 Year	Surface 2 Bolt mount, SAE J595 Class II, CE, R10, IP67. ABS Plastic. Encapsulated electronics extend product life.

ECCO 3735



Abbrev: **A** = Amber
VM = Vacuum-magnet mount **MG** = Magnet mount

Parts Example: **6650A** = 6650, Amber, 3 Bolt mount
6650A-MG = 6650, Amber, Magnet mount

Mobile Equipment Lighting

Visual Warning - LED Arrowbar



Class I LED Directional Arrowbar

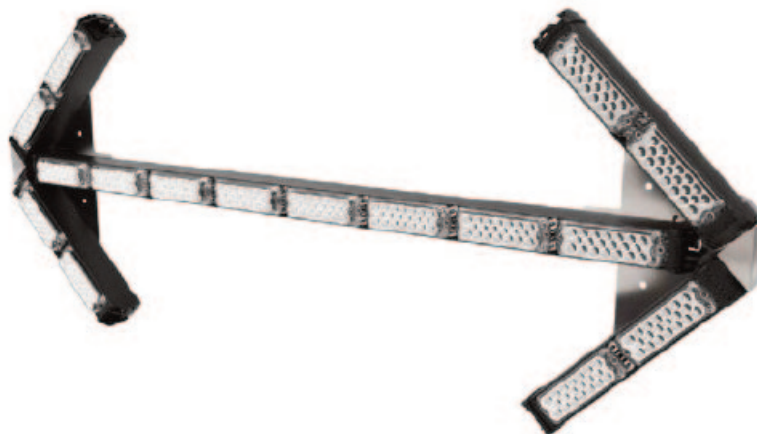
Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
Safety Director™ ED3307 Series	24.4" (620mm) High, 53.8" (1367mm) Wide 3.2" (81mm) Deep	Yellow	12-24V DC	2.8A @ 12V DC	35 patterns	3 Years	SAE J595 Class I, CE, R10. powered 3811 LED modules. Extruded aluminum housing with polycarbonate lens. Includes Arrow Bar (ED3307A), Controller (ED3307CB) and 35' (10.7m) Cable (3410-35).

Product	Dimensions	Description	Flash Patterns
ED3307CB	2.1" (53mm) High, 6.1" (155mm) Wide, 0.7" (18mm) Deep	Safety Director Arrow Controller	One lamp sequence then double flash 1 Flash - Wig wag 2 Right sweep - Single lamp L-R sequentially/double flash 3 Left sweep - Single lamp R-L sequentially/double flash 4 Center - Single lamp center out/double flash
3410- 15	15' (4.57m) Long	15' Cable	
3410- 35	35' (10.67) Long	35' Cable	
3410- 55	55' (16.77) Long	55' Cable	
3811	2.1" (53mm) High, 5.9" (151mm) Wide, 1.2" (30mm) Deep	3811 LED Module	Two lamp sequence then double flash 5 Flash - Wig wag alternating 6 Right sweep - Two lamp L-R sequentially/double flash 7 Left sweep - Two lamp R-L sequentially/double flash 8 Center - Two lamp center out/double flash
			Six lamp sequence then double flash 9 Flash - Hyper wig wag 10 Right sweep - Six lamp L-R sequentially/double flash 11 Left sweep - Six lamp R-L sequentially/double flash 12 Center - Six lamp center out/double flash
			Sequence to solid double flash 13 Flash - Wig wag 14 Right sweep - L-R sequentially/solid double flash 15 Left sweep - R-L sequentially/solid double flash 16 Center - Center out/solid double flash
			One lamp sequence then triple flash 17 Flash - Hyper alternating 18 Right sweep -Single lamp L-R sequentially/triple flash 19 Left sweep - Single lamp R-L sequentially/triple flash 20 Center - Single lamp center out/triple flash
			Three lamp sequence then double flash 21 Flash - Alternating solid 22 Right sweep - Three lamp L-R sequentially/double flash 23 Left sweep - Three lamp R-L sequentially/double flash 24 Center - Three lamp center out/double flash
			Sequence on/off 25 Flash - Hyper wig wag 26 Right sweep - L-R sequentially/off 27 Left sweep - R-L sequentially/off 28 Center - Center out/solid
			Solid arrow 29 Flash - Wig wag 30 Right sweep - Right side on/off 31 Left sweep - Left side on/off 32 Center - All lamps on/off
			Flash with no arrows 33 Cycle flash - Wig wag 34 Solid flash - Wig wag 35 Solid flash - Alternating

ECCO Safety Director™ ED3307 Series



ED3307CB



ED3307A

Mobile Equipment Lighting

Visual Warning - LED Concealed



Super LED Light

Product	Type	Description
WH-VTX609*	Omni-Directional	Single color
WH-XTX609*	Omni-Directional	Single color, Smoked lens
WH-VTX609#	Omni-Directional	Split color, Amber, Blue, Red, or White
WH-VTXFB	Omni-Directional	Black angle kit, surface mount
WH-VTXFC	Omni-Directional	Chrome angle kit, surface mount
WH-VTX3609*	Side Emitter	Single color
WH-VTX3609#	Side Emitter	Split color, Amber, Blue, Red, or White
WH-VTXD609*	Directional	Single Color
WH-XTXD609*	Directional	Single color, Smoked lens
WH-VTX D609#	Directional	Split color, Amber, Blue, Red, or White
WH-XTX D609#	Directional	Split color, Smoked lens
WH-VTXFB	Directional	Black angle kit, surface mount
WH-VTXFC	Directional	Chrome angle kit, surface mount

Replace symbol * in model number with letter indicating desired color:
A = Amber, B = Blue, R = Red, C = White

Replace symbol # in model number with letter indicating desired split color:
D = Red/Clear, E = Blue/Clear, F = Amber/Clear, J = Red/Blue, K = Red/Amber, M = Blue/Amber

Whelen Vertex Super LED Light



WH-VX609F

WH-VTX3609R

WH-VTXD609C
with side reflector

LED Concealed Warning Light

Product	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
Hide-A-LED™	0.9" (22mm) High, 1.5" (38mm) Ø		12-24V DC multi	0.9A @ 12V DC	16 patterns (Sync. capable)	2 Years	2 Bolt mount (in-headlight flange 1" hole or surface mount), CE, R10, IP67. Six LED head. In-line waterproof driver module with 9' (2.74m) cable.



9014A

Abbrev: A = Amber MG = Magnet mount

Parts Example: 6650A = 6650, Amber, 3 Bolt mount
6650A-MG = 6650, Amber, Magnet mount

Hideaway Strobe Kit

Product	Type	Dimensions (DxLxH)	Flash Patterns	Voltage	Amps	Watts	Kit Includes
RSK996P-4	Four Head Remote Strobe Kit	5 1/4"x5 1/2"x2 7/8" (133.35x139.7x 73.02)	24 Selectable Flash Patterns	10V - 30V DC	9.4A	90W	90 Watt remote power supply, clear strobe tube assemblies, 15" and 20" cables with attached ends and lighted toggle switch

Star Warning Strobe Kit



STA-RSK996P-4

Mobile Equipment Lighting

ID Display Boards



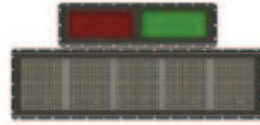
LED Vehicle Identification Display (VID)



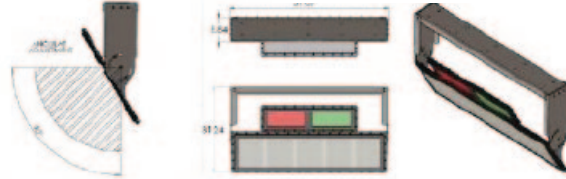
Visibility of Call Sign decals or ID numbers is of key importance at all times to ensure correct identification of heavy vehicles, water carts and other machinery. APS Vehicle Identification Display panels positively identifies vehicles on the job-site. Built tough, durable and rugged for harsh mining and construction environments having been field-tested for over 10 years.



5-character LED Vehicle Identification Display (VID) with Traffic Alert



The 5-character LED VID with traffic alert by APS is built on the same durable and robust design as the as the other VID products. This unit includes the additional red and green traffic alert system and 5 character LED display, which is visible for up to 152.4m (500ft).



Part No.	Description
VID-5C12T-ARG	APS 5-character LED Vehicle Identification Display with Traffic Alert

Part No.	Description
VID-2N12L-24V-A	2-digit numeric display, 304mm (12 inch) character height, 24V DC, 8W, Amber
VID-3N12L-24V-R	3-digit numeric display, 304mm (12 inch) character height, 24V DC, 12W, Red
VID-3N12L-24V-A	3-digit numeric display, 304mm (12 inch) character height, 24V DC, 12W, Amber
VID-3C12L-24V-A	3-character alpha-numeric display, 304mm (12 inch) character height, 24V DC, 36W, Amber
VID-S10-2	Mounting brackets for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-S18-2	Mounting brackets for 1-character 457.2mm (18 inch) displays
VID-S24-2	Mounting brackets for 1-character 609.6mm (24 inch) displays
VID-S36-2	Mounting brackets for 1-character 914.4mm (36 inch) displays
VID-PC-EXT-50-1	50 ft (15.24m) power extension chord for LED and Backlit displays, two wire and Deutsch connector
VID-PC-EXT-50-2	50 ft (15.24m) power extension chord for LED and Backlit displays, Deutsch connector both ends
VID-PC-EXT12-2Y	Power Chord Splitter 2 VID's for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-PC-EXT12-3Y	Power chord splitter 3 VID's for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-PC-EXT18/24-2Y	Power chord splitter 2 VID's for 1-character 457.2mm (18 inch) and 609.6mm (24 inch) displays
VID-PC-EXT18/24-3Y	Power chord splitter 3 VID's for 1-character 457.2mm (18 inch) and 609.6mm (24 inch) displays
VID-PC-EXT36-2Y	Power chord splitter 2 VID's for 1-character 914.4mm (36 inch) displays
VID-PC-EXT36-3Y	Power chord splitter 3 VID's for 1-character 914.4mm (36 inch) displays

Programmable LED (VID)



Now with In-cab Programming. The APS team in Chile have been working on developing a range of pre-programmed in-cab selectable codes for the Haul Truck number boards. Rather than just being a static ID display the haul truck operator has the capability to select any of the following codes from inside the cab. Up to 25 different codes can be programmed.

Part No.	Description
VID-3C12-AMCA-24VA	Programmable 3-character alpha-numeric display with arrows

APS Backlit Vehicle Identification Display (VID) Panels



The APS backlit VID panels feature backlit technology, and reflective and translucent bold font for optimum day or night visibility. Available with any number, letter or symbol, these VID panels are visible even when not under power.



Part No.	Description
VID-BL1C18-BK-24V	1-character display, 457.2mm (18 inch) character height, 24V DC, 50W
VID-BL1C24-BK-24V	1-character display, 609.6mm (24 inch) character height, 24V DC, 80W
VID-BL1C36-BK-24V	1-character display, 914.4mm (36 inch) character height, 24V DC, 100W
VID-BL2C12-BK-24V	2-character display, 304mm (12 inch) character height, 24V DC, 60W
VID-BL3C12-BK-24V	3-character display, 304mm (12 inch) character height, 24V DC, 90W
VID-BL4C12-BK-24V	4-character display, 304mm (12 inch) character height, 24V DC, 120W
VID-S10-2	Mounting brackets for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-S18-2	Mounting brackets for 1-character 457.2mm (18 inch) displays
VID-S24-2	Mounting brackets for 1-character 609.6mm (24 inch) displays
VID-S36-2	Mounting brackets for 1-character 914.4mm (36 inch) displays
VID-PC-EXT-50-1	50 ft (15.24m) power extension cord for LED and Backlit displays, two wire and Deutsch connector
VID-PC-EXT-50-2	50 ft (15.24m) power extension cord for LED and Backlit displays, Deutsch connector both ends
VID-PC-EXT12-2Y	Power cord Splitter 2 VID's for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-PC-EXT12-3Y	Power cord splitter 3 VID's for 1-character 457.2mm (18 inch) and 609.6mm (24 inch) displays
VID-PC-EXT18/24-3Y	Power cord splitter 3 VID's for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-PC-EXT36-2Y	Power cord splitter 2 VID's for 1-character 914.4mm (36 inch) displays
VID-PC-EXT36-3Y	Power cord splitter 3 VID's for 1-character 914.4mm (36 inch) displays

Mobile Equipment Lighting

Safety Whips & Flags



Safety Whips and Flags



This unique and innovative product features a 3-sided backlit Vehicle Identification Display (VID) with LEDs, making it suitable for 360 degree visibility on heavy and auxiliary equipment such as dozers and graders.

Customize it the way you want, as there are plenty of options to choose from such as: having an LED beacon or without an LED beacon, having a whip and flag or without a whip and flag, and you can also choose whether to have a powered or unpowered whip and flag.

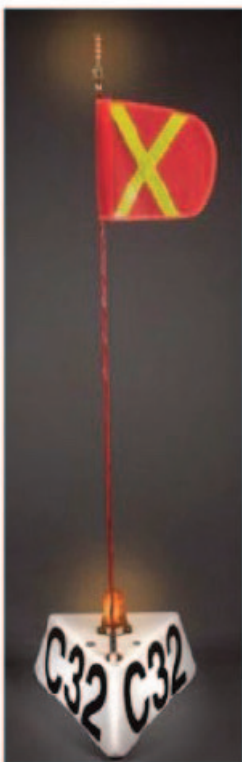
Features

- Internal high performance LED illumination for night time visibility
- Manufactured with 3M Diamond Grade Reflective for night visibility
- Heavy duty ultra-high density shell for water and weather resistance
- Constructed with four heavy duty magnets
- Up to 3 characters at 210.82mm (8.3 inch) height



Part No. Description

VID-LA4-SX	APS 3-sided backlit Vehicle Identification Display (VID), beacon, powered whip, LED strobe tube
VID-LA4NP-SX	APS 3-sided backlit Vehicle Identification Display (VID), beacon, non-powered whip
VID-SA4FA-SX	APS 3-sided backlit Vehicle Identification Display (VID) for lite duty pickups/utes
UPM5	Powered Universal Platform Mount with 1.52m (5') pole
UPM5-V	APS 3-sided display, thread whip mount, powered Universal Platform Mount with 1.52m (5') pole
UPM5-VS	APS 3-sided display, thread whip mount, strobe, powered Universal Platform Mount with 1.52m (5') pole
UPM3	Powered Universal Platform Mount with 0.914m (3') pole
UPM3-V	APS 3-sided display, thread whip mount, powered Universal Platform Mount with 0.914m (3') pole
UPM3-VS	APS 3-sided display, thread whip mount, strobe, powered Universal Platform Mount with 0.914m (3') pole
UPMT	Toolbox/Side mount for telescoping whips and Universal Platform Mounts



Part No. Description

SIG2FL-G/R-24	VID Flashing LED Signal Light Display
519.30B	Zinc Plated Spring Mount
519.343	Threaded Safety Whip Base
AW07D-Red	Alloy Whip with Light Socket
FLAG-X	Reflective X Safety Flag
M-PLA	High Impact Lens for Miniature Lamps
M-PLR	High Impact Lens for Miniature Lamps
W08	Safety Whip without Flag and Plugs
W08-B	Powered Whip with Buggy Lights
W08NP-X	Heavy Duty Whip Non-Powered
W10	Safety Whip without Flag
W10-M	Heavy Duty Fiberglass Whip with Mesh Flag
W10-X	Heavy Duty Fiberglass Whip with Reflective Flag
W12-M	Safety Whip and Mesh Flag
W12NP-X	Heavy Duty Fiberglass Whip

Mobile Equipment Lighting

Safety Whip Lightheads



Safety Whip Lightheads LED

Product	Type	Dimensions (H x W x L)	Color	Voltage
AL2CA	Amber Light Head Steady On	–	Amber	9-24V
AL2CW	White Light Head Steady On	–	White	9-24V
AL8CA	Amber Light Head Steady On	104mm (4.1 in) in Length	Amber	9-12V
AL8FA	Amber LED Flashing Light	104mm (4.1 in) in Length	Amber	9-12V
AL8FB	Blue LED Flashing Light	104mm (4.1 in) in Length	Blue	9-12V
AL8FG	Green LED Flashing Light	104mm (4.1 in) in Length	Green	9-12V
AL8FR	Red LED Flashing Light	104mm (4.1 in) in Length	Red	9-12V
CXA-BA15SR	Red Buggy Whip Light	–	Red	9-32V

Safety Whip Lights



AL2CA



AL2CW



AL8CA/
AL8FA



AL8FB



AL8FG



AL8FR



CXA-BA15SR

APS Wheelchocks

Product	Application	Tire Size	Size (H x W x L)	Weight	Max Tire Radius	Max Weight
10840	Airport small vehicles, carts, small trailers, light duty 4 x 4	Small	6" x 7" x 8" (152 x 178 x 203mm)	1.5 lbs 12V DC	20"/508 mm (0.8 kg)	30,000 lbs/ 13,608 kg
1088	Airport Service Vehicles, trucks and minesite support vehicles	Medium	7" x 8" x 11.5" (178 x 203 x 292mm)	3.5 lbs (1.6 kg)	40"/1.016 mm	70,000 lbs/ 31,752 Kg
1085	Mining Trucks	Giant	14.5" x 14.75" x 17.25" (368 x 375 x 439mm)	21.5 lbs (9.8 kg)	105"/2.667 mm	366,000 lbs/ 166,015 kg
1143	Mining Trucks	Mega	18" x 18" x 26" (457 x 457 x 660mm)	44 lbs (20 kg)	140"/3.556 mm	240 Ton/ 217,724 kg



10840



1088



1085



1143