













Mobile Equipment Safety

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NOTE: These products are available to customers operating east of the Mississippi River in the United States

Mobile Equipment Safety

Audible Warning



MF Series

EA7070

EA5050

EA 6 10 0

ECCO

Multi-Frequency Back-up Alarm

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

• ECCO Life - Vehicle Life Warranty

- Shh-shh multi-frequency • SAE J994 Type F & B, AMECA, CE, R10
- · 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.	Туре	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	t 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	e 87-112	12-24V DC	0.9A	2 Years	5x3.1x3.8" (127x79x97mm)	CE, R10, IP66

Fixed Db Alarms

Preco Self-Adjustable Alarms







PRE-250



 Stud terminal connection • Encapsulated electronics

PRE-110

1

PRE-112 PRE-240

PRE-2

70	PRE-FS255	

Product	Туре	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



• ECCO compact design

Stud terminal connection

Product	Туре	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	CE, R10, Type A
							(71 x 102 x 41 cm)	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	SAE Type A, CE, R10,
							(71 x 102 x 41 cm)	UL, AMECA, IP65

to the optimum frequency.

SCR - monitors the frequency of the alarms sound output on each side and adjusts



520

600 Series



Smart Alarm - listens, adjusts, reacts

Features

• ECCO reverse mounted speaker protects against dust, moisture and vibration

• Encapsulated electronics

Product	t 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	SAE J994 Type B,	
							(78 x 127 x 68 cm)	CE, R10, UL, AMECA	

700 Series

	HI	• OEM po	nart alarm pular design Ilated electronio	CS			
Produc	t Type	Voltage	Loudness (Db)	Amps (12V)	Warranty	Dimensions (LxHxD	Approval
777	Tonal Smart Series	12-24V	97/107/112	0.8A	2 Years	3.3 x 7.1 x 4 inches	SAE J994 Type A, B, C,
			Switchable			(84 x 181 x 102 cm)	CE, R10, IP66



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Audible Warning

700 Series

Features

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

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





SA914N



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

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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







Audible Warning

Emergency Vehicle Warning Speakers and Sirens



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

Star Warning 1889 Speakers





Star Warning 1889 Sirens











STA-SB4020

Model 52





Resonating Horn

The Federal Signal Model 52 resonating horn produces 114dBA @ 10 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 Heavy/Off-road vehicles, mining and 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	Туре 4Х
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

construction etc.

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

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Audible Warning

Marinco Electric Horns

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

Marinco Electric Horns

24V Single Trumpet Electric Horn

24V Dual Trumpet Electric Horn



AFI-10017XL

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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 descrease 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.



Visual Warning - LED Beacons - Class I

Class I LED Beacons – Rotating

6



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, of 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 F	RotoLED™	ECCO 5280 P	otoLED™				Blue. $\mathbf{C} = \text{Clear} \mathbf{G} = \text{Green} \mathbf{R} = \text{Red}$
		del.	A.				
7660A	7660A-V M	5220	DA		Parts Example		7660, Clear, 3 Bolt mount 1 = 7660, Amber, Vacuum-magnet
	LED Beacons –						
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		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, R1C IP55, AME- CA. Compact, low-profile beaco 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		4 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class I, Cal. Title 13, R10 IP55, AMECA, RoHS. Dual-color warning, 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 (WM) 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"		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.
(170)mm) High, 6.5", (165n	nm) Ø					Replacement lenses available.
ECCO 7960 F	Pulse™ EC	CO EB7180	ECCO EB71	85	ECCO 7460 Pro	ofile™ ECC(D 7160 Reflex™
7960A	7960A-VM	EB7180A	EB718	25000	74604		7160A
ECCO 7900 S		LD7 TOUA		JUAAA	74004		(Simulated Rotation)
	ک		e	Ŧ	-		
		7970A	7970A-VM	7980			

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Visual Warning - LED Beacons - Class II/III

Class II LED Beacons

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MATRIX	
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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



Abbrev: A = Amber B = Blue. C = Clear G = Green R = Red $\mathbf{VM} = \mathbf{Vacuum}$ -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@ 12V DC	11 patterns		3 Bolt / 1" Pipe or Vacuum-magnet (VM) mount, SAE J845 Class II, CE, R10, RoHS (7945A/7950A only). sinforced polypropylene base. Replacement lenses available
ECCO 7	900 Series						
		-		-			



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



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Visual Warning - LED Beacons - Class III



Class I	II 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, R1O, 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



64 10A





64 10A-MG

ECCO 6262 Series



6262A (Wire exit: side)





62

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



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

ECCO 5800 Series





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

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





Visual Warning - Strobe - Class I & II

Class I and II Strobes



Product	Color	Flash Pattern	Voltage	Amps	Flash Rate	Warranty	Additional Information
PRE-3318A		Single	12-110V DC	0.25A @ 12V DC	80	2 Years	CE
PRE-4243A		Double/Quad	12-48V DC	2.5A@ 12V DC	80/65	2 Years	SAE J1318 Class II, CE, R10
PRE-4262A		Double/Quad	12-48V DC	3.7A @ 12V DC	65	2 Years	SAE J1318 Class I
PRE-4263A		Double/Quad	12-48V DC	2.5A@ 12V DC	80/65	2 Years	SAE J1318 Class II, CE, R10
PRE-FT4203		_	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





PRE-4243A

PRE-4262A



PRE-4263A

PRE-MK4200

Parts



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		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		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 66	00 Series	E	CCO 6500) Series			
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6650A

10

6650A-VM

6550A







ECCO-9007C

6550A-VM

Visual Warning - LED Lightbar





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

ECCO 5135A Rotate



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" (12-00007-E)	54" (1371.6mm) Long 2.5" (64mm High, 11" (279mm) Wide		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
ECCO 12 Series \	/antage™						for fast, easy installation. Optional 12 Series Lightbar Controller available.

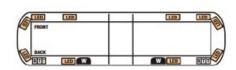


15 Series Lightbars

Light Bar Icon Keys:

LED Warning module

LED Work Lamp module



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

ECCO Streetlazer 15 Series

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EC-15-00013-E

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EC-15-01255-E

Visual Warning - LED Lightbar

Lightbar Controller (Optional)



Product	Dimensions	Flash	De	scription			
EZ0006	3.6" (90mm) High, 5.9" (149mm) Wide, 0.7" (18mm) Deep	24 Patterns	The optional 12 Series Lightbar Controller provides convenient and ea control of the 24 built-in flash patterns and auxiliary LED modules (where applicable). Simply plug-n-play.				
No. Pattern 1 Steady Burn 2 Quad Flash 3 Double Flash 4 Slow Quad 5 Slow Double 6 Quint Hold 7 Pulse8 8 Quad Flash Alternate 9 Quad Flash Alternate 10 Double Flash Diagonal 11 Double Flash Diagonal 12 Quint Hold Alternative	Description Always On 120 Quad FPM 75 Double FPM 65 Quad FPM 75 Quint FPM 75 Quint FPM 75 Oct FPM 150 Quad FPM Alterna 150 Quad FPM Alterna 150 Quad FPM Alterna 150 Quad FPM Alterna	ting Diagonal ting Side to Side ting Diagonal	No. Pattern 13 Quint Hold Diagonal 14 Rotate 15 Rotate/Quad 16 Wave Rotate 17 Quad Flash Alternate Front 18 Quad Flash Alternate Rear 19 Double Flash Alternate Rear 21 Quint Hold Alternate Front 22 Quint Hold Alternate Rear 23 Quad Flash Alternate Center 24 Cycle All	Description 1150 Quint FPM Alternating Diagonal 120 RPM 120 RPM/75 Quad FPM 70 RPM 150 Quad FPM Alt Side to Side (Front Only) 150 Quad FPM Alt Side to Side (Rear Only) 150 Double FPM Alt Side to Side (Front Only) 150 Double FPM Alt Side to Side (Rear Only) 150 Quint FPM Alt Side to Side to Side (Rear Only) 150 Quint FPM Alt Side (Rear Only) 150 Quad FPM Alt Side to Side (Rear Only) 150 Quad FPM Alt Side to Side (Center Only) Cycle through patterns			

work vehicles as well as headache rack mounting brackets.

Installation

ProductDescriptionER0002Standard 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.A1032RMKHeadache Rack Bracket for 12 Series Vantage Lightbar. Strap mounting kits for the most popular

A1032RMK (Headache Rack Mounting Brackets)

ECCO EROOO2

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Standard Feet Kit



ECCO A1032RMK

Headache Rack Mounting Brackets



EC-15-00013-E



In-cab Lightbar Controller

EZ0006

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	12V DC	P1, P2, P3, P4, P5, left traffic,
			39 warning patterns		right traffic, ICL, DIM, takedown
			9 Traffic Director patterns		pursuit, alley, flash, turn left, turn right
Phazer		58 inches	20 different simultaneous patterns	12V DC	P1, P2, P3, P4, P5, left traffic,
1550-SPECIAL	-		39 warning patterns		right traffic, ICL, DIM, takedown
			9 Traffic Director patterns		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		Star Razor L			
				-	Town of surger descent dates of
	1400/1550-	SPECIAL		2440/254	0

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



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	10-16V DC	1.5A @	High intensity LED,
			Flash Patterns		12V DC	auto-voltage adjust,
Starvisor	II Visor Li	aht				visor mount only



ED001 Series Class I Directional LED

The ECCO EDO01 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.



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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

Visual Warning - LED Directional

Class I LED Directional Lights

M
MATRIX

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-an- gle 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 35	10 EC	CO 3811		ECCO	ED3700 Seri	ies	ECCO 3715
)	•	20.05	1	
35	10A	3811A		E	D3704A		3715A
ECCO 39	45 ECCO 39	965					
							B = Blue. C = Clear G = Green R = Red -magnet mount
		498334			Parts Exa	mnle: 7660C	= 7660. Clear. 3 Bolt mount

 Parts Example:
 7660C
 = 7660, Clear, 3 Bolt mount

 7660A-VM
 = 7660, Amber, Vacuum-magnet mount

Class II LED Directional Light

3945A

3965A

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
ECCO 37	'35						product life.
	amer attin			Abbrev: A = VN	= Amber I = Vacuum-magr	net mount MG =	= Magnet mount
				Parts Exam	ple: 6650A = 665 6650A-MG =		olt mount Magnet mount

Visual Warning - LED Arrowbar

Class I LED Directional Arrowbar



0.(.)	Dimensions	Color	Voltage	Amps	Flash	Warranty	Additional Information
Safety Director™ ED3307 Series	24.4" (620mm) High, 53.8" (1367mm) Wide 3.2" (81mm) Deep		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 (ED3307CB) and 35' (10.7m) Cable (3410-35).
Product	Dimensions	Description	Flash Pa	atterns			One lamp sequence then triple flash
ED3307CB	2.1" (53mm) High, 6.1" (155mm) Wide, 0.7" (18mm) Deep	Safety Director Arrow Controller	1 Flash 2 Righ sequ	p sequence t n - Wig wag t sweep - Sin entially/doubl sweep - Singl	e 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
3410- 15	15' (4.57m) Long	15' Cable		entially/doubl			20 Center - Single lamp center out/triple flash
3410-35	35' (10.67) Long	35' Cable			mp center out/dou	ble flash .	Three laws accurace then double fleeb
3410- 55	55' (16.77) Long	55' Cable	— —		have devided a flame		Three lamp sequence then double flash 21 Flash - Alternating solid
3811	2.1" (53mm) High, 5.9" (151mm) Wide, 1.2" (30mm) Deep	3811 LED Module	5 Flash 6 Righ doub 7 Left doub 8 Cent Six lamp 9 Flash 10 Righ doub 11 Left doub 12 Cent Sequenc 13 Flash 14 Righ flash	h - Wig wag a t sweep - Two le flash sweep - Two le flash er - Two lamp o sequence th h - Hyper wig t sweep - Six le flash sweep - Six la le flash er - Six lamp ce to solid dou h - Wig wag t sweep - L-R	o lamp L-R sequen lamp R-L sequenti o center out/double len double flash wag lamp L-R sequent amp R-L sequentia center out/double	tially/ ally/ e flash ially/ flash double	 22 Right sweep - Three lamp L-R sequentially double ash 23 Left sweep - Three lamp R-L sequentially/ double flash 24 Center - Three lamp center out/double flash 24 Center - Three lamp center out/double flash 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 - Left 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

ED3307CE

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ED3307A

Visual Warning - LED Concealed



Super LED Light

Product	Туре	Description			
WH-VTX609*	Omni-Directional	Single color			
WH-XTX609*	Omni-Directional	Single color, Smoked lens			
W H-VTX609#	Omni-Directional	Split color, Amber, Blue, Red, or White			
WH-VTXFB	Omni-Directional	Black ange kit, surface mount			
WH-VTXFC	Omni-Directional	Chrome ange 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 ange kit, surface mount			
WH-VTXFC	Directional	Chrome ange kit, surface mount			

 $\begin{array}{l} \mbox{Replace symbol ${\sc in model number}$} \\ \mbox{with letter indicating desired color:} \\ \mbox{A} = \mbox{Amber}, \mbox{B} = \mbox{Blue}, \mbox{R} = \mbox{Red}, \\ \mbox{C} = \mbox{White} \end{array}$

Replace symbol # in model number with letter indicating desired split color:

$$\label{eq:bar} \begin{split} D &= Red/Clear, \ E = Blue/Clear, \\ F &= Amber/Clear, \ J = Red/Blue, \end{split}$$

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.
0.0						Abbrev: A = A	mber MG = Magnet mount
C LON				Parts Example	: 6650A = 6650, Amber, 3 Bolt mount 6650A-MG = 6650, Amber, Magnet mount		

9014A

Hideaway Strobe Kit

Product	Туре	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





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





Description

Part No.

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
V ID-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 VIDs for 2 to 4-digit/alpha-character 304mm (12 inch) displays
VID-PC-EXT12-3Y	Power chord splitter 3 VIDs 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.

Description

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.





		VID-3C12-AMCA-24VA	Programmable 3-character
Part No.	Description		alpha-numeric display with arrows
VID-BL1C18-BK-24V	1-character dis	play, 457.2mm (18 inch) charac	ter height, 24V DC, 50W
VID-BL1C24-BK-24V	1-character dis	play, 609.6mm (24 inch) charac	ter height, 24V DC, 80W
VID-BL1C36-BK-24V	1-character dis	play, 914.4mm (36 inch) charac	ter height, 24V DC, 100W
VID-BL2C12-BK-24V	2-character dis	play, 304mm (12 inch) characte	r height, 24V DC, 60W
VID-BL3C12-BK-24V	3-character dis	play, 304mm (12 inch) characte	r height, 24V DC, 90W
VID-BL4C12-BK-24V	4-character dis	play, 304mm (12 inch) characte	r height, 24V DC, 120W
VID-S10-2	Mounting brack	ets for 2 to 4-digit/alpha-charac	ter 304mm (12 inch) displays
VID-S18-2	Mounting brack	ets for 1-character 457.2mm (*	18 inch) displays
VID-S24-2	Mounting brack	ets for 1-character 609.6mm (2	24 inch) displays
VID-S36-2	Mounting brack	ets for 1-character 914.4mm (3	36 inch) displays
VID-PC-EXT-50-1	50 ft (15.24m)) power extension cord for LED a	nd Backlit displays, two wire
	and Deutsch co	onnector	
VID-PC-EXT-50-2	50 ft (15.24m)) power extension cord for LED a	nd Backlit displays, Deutsch connector
	both ends		
VID-PC-EXT12-2Y	Power cord Spl	itter 2 VIDs for 2 to 4-digit/alpha	a-character 304mm (12 inch) displays
VID-PC-EXT12-3Y	Power cord spl	itter 3 VID's for 1-character 457	7.2mm (18 inch) and 609.6mm
	(24 inch) displa	iys	
VID-PC-EXT18/24-3Y	Power cord spl	itter 3 VIDs for 2 to 4-digit/alpha	a-character 304mm (12 inch) displays
VID-PC-EXT36-2Y	Power cord spl	itter 2 VID's for 1-character 914	I.4mm (36 inch) displays
VID-PC-EXT36-3Y	Power cord spl	itter 3 VID's for 1-character 914	I.4mm (36 inch) displays

Part No.

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
WO8NP-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

Safety Whip Lightheads

Safety Whip Lightheads LED

Product	Туре	Dimensions (H x Wx LO	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 (4.1in) in Length	Amber	9-12V
AL8FA	Amber LED Flashing Light	104mm (4.1in) in Length	Amber	9-12V
AL8FB	Blue LED Flashing Light	104mm (4.1in) in Length	Blue	9-12V
AL8FG	Green LED Flashing Light	104mm (4.1in) in Length	Green	9-12V
AL8FR	Red LED Flashing Light	104mm (4.1in) in Length	Red	9-12V
CXA-BA15SR	Red Buggy Whip Light	-	Red	9-32V

Safety Whip Lights







AL2CW



AL8FB



AL8FR



APS Wheelchocks

Product	Application	Tire Size	Size (H x W x L)	Weight	Max Tire Radius	Max Weight
10840	Airport small vehicles, carts,	Small	6" x 7" x 8"	1.5 lbs	20"/508 mm	30,000 lbs/
	small trailers, light duty 4 x 4		(152 x 178 x 203mm)	12V DC	(0.8 kg)	13,608 kg
1088	Airport Service Vehicles, trucks	Medium	7" x 8" x 11.5"	3.5 lbs	40"/1.016 mm	70,000 lbs/
	and minesite support vehicles		(178 x 203 x 292mm)	(1.6 kg)		31,752 Kg
1085	Mining Trucks	Giant	14.5" x 14.75" x 17.25"	21.5 lbs	105"/2.667 mm	366,000 lbs/
			(368 x 375 x 439mm)	(9.8 kg)		166.015 kg
1143	Mining Trucks	Mega	18" x 18" x 26"	44 lbs	140"/3.556 mm	240 Ton/
			(457 x 457 x 660mm)	(20 kg)		217.724 kg









