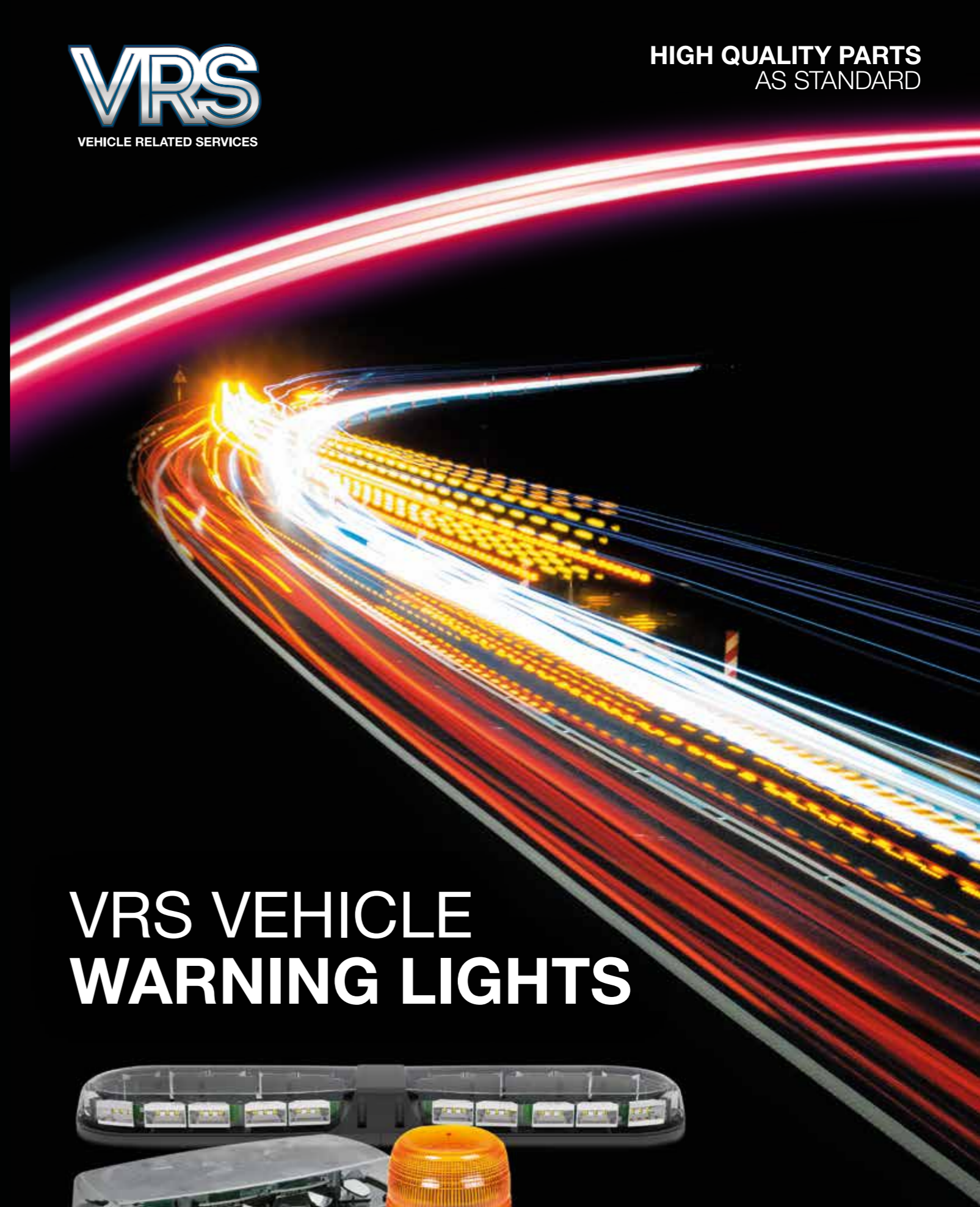


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Buckinghamshire MK15 8HB
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**HIGH QUALITY PARTS
AS STANDARD**



VRS VEHICLE WARNING LIGHTS



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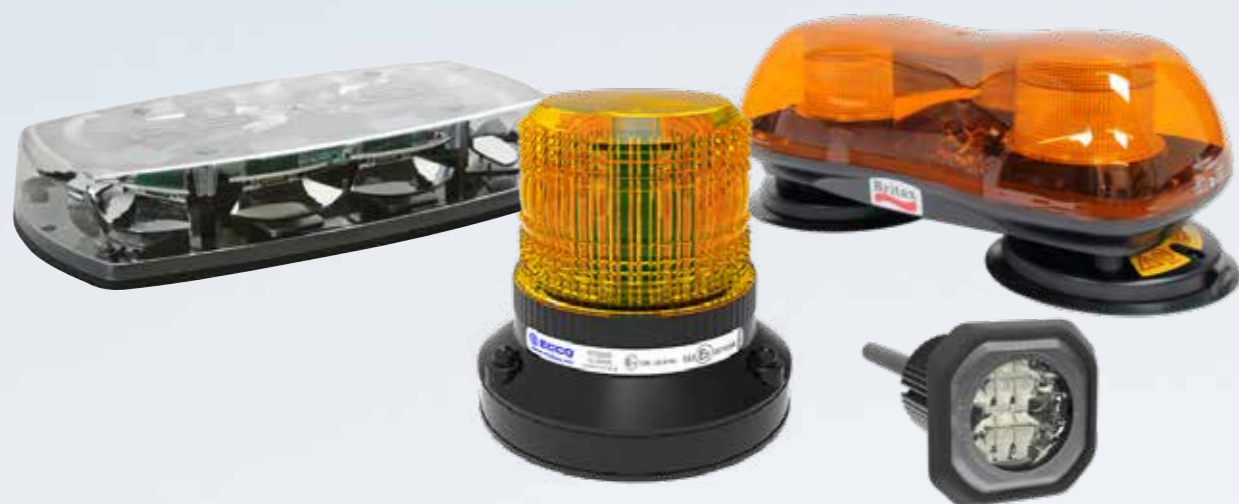
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Scania pursues an active policy of product development and improvement. For this reason, Scania reserves the right to make changes relating to design and specification, its products and services and any information without prior notice.

Edition 1

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INTRODUCTION

Welcome to the first edition of the VRS Vehicle Warning Lights catalogue. Inside, you'll find a comprehensive range of Ecco Safety Group vehicle warning lights including beacons, minibars, lightbars and directional lights – all designed to promote the safety of everyone who comes into contact with commercial vehicles, from pedestrians and site workers to cyclists and other road users.

All of these parts are supplied through the Scania UK network, and all come with the associated benefits, including high product availability, parts delivery service, and a comprehensive parts warranty.

VRS offers a market-leading range of all-makes truck and trailer parts, lubricants, chemicals and workshop consumables, all developed by Scania and all available through its UK Dealer Network. With such an extensive range in one place, you can save time, effort and money every time you order.

Contact your nearest Scania dealer or visit our website to find out more.
www.vehiclereLATEDservices.co.uk



ECCO SAFETY GROUP (ESG)

ECCO Safety Group is a worldwide leading manufacturer of commercial vehicle warning lights and safety systems, with production facilities in eight locations on four continents. The company's mission is to develop safety solutions and emergency products to help protect the most important assets – people.

ECCO lighting equipment can be found on all types of commercial vehicles, specialist construction machines, vans and emergency services vehicles. ECCO Safety Group's range comprises quality products from Ecco, Britax, Code 3 and Premier Hazard.

ECCO products are trusted by professionals across the globe, and for good reasons. With durability, performance and quality that are unmatched in the field, the warning lights range features a multitude of functions that make them top of the list for operators.



12+ SERIES LED AMBER LIGHTBARS R65

The New 12+ Series LED lightbars are versatile and powerful warning devices suitable for a wide range of vehicle types and duties.

Available in eight length options with sleek low-profile styling, durable aluminium chassis, polycarbonate base and lens. Features include 457mm centre section combined with a 305mm end section, allowing for configurations in shorter lengths for more versatility on smaller vehicles.

457mm LED centre illumination with opal lens section allows for customised signage to personalise and distinguish the lightbar. A choice of clear and amber lenses increases customisation options even further.

The 12+ Series LED lightbars support three kinds of LED modules including single and dual colour warning, stop-tail-indicator, and alley/work light. Custom configurations are available on request.

PRODUCT FEATURES

- Exceptional performance, industry-leading CISPR 25 (Radiated + Conducted Emissions).
- Optional Integrated Safety Director™ (must be configured).
- Standard configurations with work lamps, alley lights, stop-tail-indicator are available.
- ICE optic warning modules offer brighter appearance for better visibility.
- Configurations available for applications where ICAO is a requirement.
- Eight length options: 610mm, 760mm, 910mm, 1070mm, 1212mm, 1372mm, 1524mm, 1828mm.
- Shorter lengths: 305mm end section and 457mm centre sections.
- LED centre illumination available in 457mm.
- R65 Class I for Amber configurations with amber and clear lenses.
- R65 Class II available on request and must be ordered with an Advanced Controller.
- Aluminium chassis, polycarbonate base and lens.
- Temperature Range: -30°C to +50°C.
- Height: 63.5mm, width: 279.5mm.
- Custom configurations are available on request.



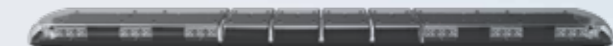
VRS PART NUMBER	AM 1230174E	AM 1230175E
LENGTH	610mm	760mm
COLOUR	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	12 LED Modules	12 LED Modules
VOLTAGE	12-24V	12-24V
APPROVALS	R65, R10, CISPR 25	R65, R10, CISPR 25
WARRANTY	5 Years	5 Years



VRS PART NUMBER	AM 1230176E	AM 1230177E
LENGTH	910mm	1070mm
COLOUR	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	12 LED Modules	12 LED Modules
VOLTAGE	12-24V	12-24V
APPROVALS	R65, R10, CISPR 25	R65, R10, CISPR 25
WARRANTY	5 Years	5 Years



VRS PART NUMBER	AM 1230009E	AM 1230010E
LENGTH	1212mm	1372mm
COLOUR	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V
APPROVALS	R65, R10, CISPR 25	R65, R10, CISPR 25
WARRANTY	5 Years	5 Years



VRS PART NUMBER	AM 1230011E	AM 1230016E
LENGTH	1524mm	1828mm
COLOUR	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V
APPROVALS	R65, R10, CISPR 25	R65, R10, CISPR 25
WARRANTY	5 Years	5 Years

13 SERIES LED AMBER LIGHTBARS R65

The 13 Series R65 LED Lightbars have been designed with the customer in mind.

The range offers excellent value in terms of cost, performance and durability using the solid state, maintenance-free, long life nature of LED technology.

The lightbars are robust and compact in the popular housing design, and are available in four standard length options to suit all needs.

All of the lightbars are designed and manufactured in the UK. The 13 Series is suitable for a variety of vehicles including large vehicles, recovery trucks, fleets and highway maintenance. Custom configurations are also available.



PRODUCT FEATURES

- 2 flash standard patterns, more available on request. (Quad flash all on/quad flash alternating left and right).
- High intensity LED module.
- 360° R65 Class I light output.
- Four length options: 770mm, 1000mm, 1250mm and 1500mm.
- Twenty four standard chassis configurations (24, 16 or 12 LED module options).
- Aluminium chassis bar, polycarbonate base and lens (clear and amber options).
- Opal centre sections on request.
- Temperature Range: -30°C to +50°C.



770MM				
VRS PART NUMBER	AM 1300001E	AM 1300002E	AM 1300009E	AM 1300010E
LENGTH	770mm	770mm	770mm	770mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	24 LED Modules	24 LED Modules	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	5 Years	5 Years	5 Years	5 Years



1000MM				
VRS PART NUMBER	AM 1300003E	AM 1300004E	AM 1300011E	AM 1300012E
LENGTH	1000mm	1000mm	1000mm	1000mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	24 LED Modules	24 LED Modules	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	5 Years	5 Years	5 Years	5 Years



1250MM				
VRS PART NUMBER	AM 1300005E	AM 1300006E	AM 1300013E	AM 1300014E
LENGTH	1250mm	1250mm	1250mm	1250mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	24 LED Modules	24 LED Modules	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	5 Years	5 Years	5 Years	5 Years



1500MM				
VRS PART NUMBER	AM 1300007E	AM 1300008E	AM 1300015E	AM 1300016E
LENGTH	1500mm	1500mm	1500mm	1500mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	24 LED Modules	24 LED Modules	16 LED Modules	16 LED Modules
VOLTAGE	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	5 Years	5 Years	5 Years	5 Years

A13 SERIES LED AMBER LIGHTBARS

The A13 Series LED Lightbars are suitable for all types of vehicles.

The lightbars are available with clear or amber polycarbonate lenses, and are low profile to complement modern vehicle design. They come with dual voltage modules and can be ordered in four different lengths: 770mm, 1000mm, 1250mm, 1500mm.



PRODUCT FEATURES

- High-intensity LED.
- Water-resistant design.
- Double flash, 120 flashes per minute.
- Low-profile design.
- High-performance base.
- Polycarbonate lenses.



770MM				
VRS PART No	AM A13720000DV	AM A13720040DV	AM A13722000LDV	AM A13722040LDV
LENGTH	770mm	770mm	770mm	770mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	12 LEDs	12 LEDs	12 LEDs	12 LEDs
VOLTAGE	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R10	R10
WARRANTY	5 Years	5 Years	5 Years	5 Years



1000MM								
VRS PART No	AM A13730200DV	AM A13730240DV	AM A13732200LDV	AM A13732240LDV	AM A13730100DV	AM A13730140DV	AM A13732100DV	AM A13732140DV
LENGTH	1000mm	1000mm	1000mm	1000mm	1000mm	1000mm	1000mm	1000mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	16 LEDs	16 LEDs	16 LEDs	16 LEDs	12 LEDs	12 LEDs	12 LEDs	12 LEDs
VOLTAGE	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R10	R10	R65 and R10	R65 and R10	R10	R10
WARRANTY	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years



1250MM								
VRS PART No	AM A13750200DV	AM A13750240DV	AM A13752200LDV	AM A13752240LDV	AM A13750100DV	AM A13750140DV	AM A13752100LDV	AM A13752140LDV
LENGTH	1250mm	1250mm	1250mm	1250mm	1250mm	1250mm	1250mm	1250mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	20 LEDs	20 LEDs	16 LEDs	16 LEDs	12 LEDs	12 LEDs	12 LEDs	12 LEDs
VOLTAGE	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R10	R10	R65 and R10	R65 and R10	R10	R10
WARRANTY	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years



1500MM								
VRS PART No	AM A13770200DV	AM A13770240DV	AM A13772200LDV	AM A13772240LDV	AM A13770100DV	AM A13770140DV	AM A13772100LDV	AM A13772140LDV
LENGTH	1500mm	1500mm	1500mm	1500mm	1500mm	1500mm	1500mm	1500mm
COLOUR	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)	Amber	Amber (Clear Lens)
TYPE	20 LEDs	20 LEDs	24 LEDs	24 LEDs	12 LEDs	12 LEDs	12 LEDs	12 LEDs
VOLTAGE	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V
APPROVALS	R65 and R10	R65 and R10	R10	R10	R65 and R10	R65 and R10	R10	R10
WARRANTY	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years



5565 SERIES LED AMBER MINIBARS



The 5565 Series LED Amber Minibars provide a compact yet powerful warning solution that offers the flexibility of either permanent or magnetic mounting.

Featuring 12-24 VDC operation, the minibars use high-intensity LEDs and reflective technology to maximise light output.

384MM						
VRS PART NUMBER	AM 5565AVA1	AM 5565AVA2	AM 5565AMAG	AM 5565CAVA1	AM 5565CAVA2	AM 5565CAMAG
LENGTH	384mm	384mm	384mm	384mm	384mm	384mm
COLOUR	Amber	Amber	Amber	Amber (Clear Lens)	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	8 LEDs	8 LEDs	16 LEDs	8 LEDs	8 LEDs	16 LEDs
VOLTAGE	12-24V	12-24V	12-24V	12-24V	12-24V	12-24V
MOUNTING	1 Bolt	2 Bolts	Magnetic	1 Bolt	2 Bolts	Magnetic
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years

A420 SERIES LED AMBER MINIBARS R65



The A420 Series is a popular R65 LED Minibar, available in 1 Bolt or Magnetic mounting options.

Suitable for a wide range of applications including vans, trucks, agricultural and construction machines.

420MM		
VRS PART NUMBER	AM A52100LDV	AM A52400LDV
LENGTH	420mm	420mm
COLOUR	Amber	Amber
TYPE	2 LED Modules	2 LED Modules
VOLTAGE	12-24V	12-24V
MOUNTING	2 Bolts	Magnetic
APPROVALS	R65 and R10	R65 and R10
WARRANTY	5 Years	5 Years



A500 SERIES LED LOW PROFILE MINIBARS R65



The A500 Series is a compact, low profile R65 LED Minibar available in 1 Bolt or Magnetic mounting options with amber or clear lenses.

The magnetic version comes complete with a storage bag to safeguard your lightbar when not in use. Dimensions: 248mm (L) x 172mm (D) x 79mm (H).



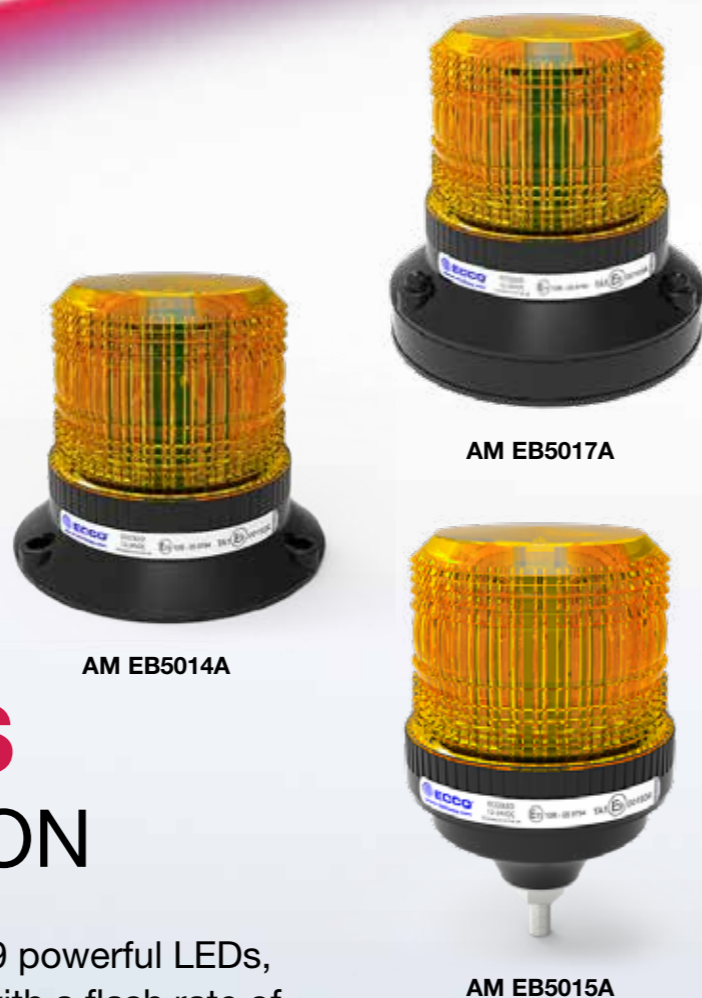
248MM				
VRS PART NUMBER	AM A51100LDV	AM A51400LDVKIT	AM A50100LDV	AM A50400LDVKIT
LENGTH (mm)	248	248	248	248
COLOUR	Amber	Amber	Amber (Clear Lens)	Amber (Clear Lens)
TYPE	LED	LED	LED	LED
VOLTAGE	12-24V	12-24V	12-24V	12-24V
MOUNTING	1 Bolt	Magnetic	1 Bolt	Magnetic
APPROVALS	R10	R10	R10	R10
WARRANTY	5 Years	5 Years	5 Years	5 Years



ECCOLED SILVER SERIES LED AMBER BEACON

The Silver ECCOLED R65 Beacon utilises 9 powerful LEDs, arranged to produce a 360° flash pattern with a flash rate of 125FPM for maximum visibility by combining the solid-state, maintenance free long-life nature of LED technology.

This high performance range has increased EMC, is robust and compact in a popular housing design and is available in four standard mounting options. The ECCOLED range of beacons are suitable for a variety of vehicles including applications where the UK lighting regulation Chapter 8 is a requirement*. This range is designed to maximise resilience to excessive vibration, increase the life of the product and are backed by a three-year warranty.



VRS PART NUMBER	AM EB5014A	AM EB5015A	AM EB5017A
HEIGHT / BASE (mm)	120 x 148	120 x 148	120 x 141
COLOUR	Amber	Amber	Amber
TYPE	9 LEDs	9 LEDs	9 LEDs
VOLTAGE	12/24V	12/24V	12/24V
MOUNTING	3 Bolt	1 Bolt Conical	Magnetic
APPROVALS	R65 and R10	R65 and R10	R65 and R10
WARRANTY	3 Year	3 Year	3 Year

400 SERIES LED AMBER BEACON



The 400 Series LED Beacons utilise the latest LED technology.

Features 12 powerful LED's arranged to produce a 360° flash pattern, with a flash rate of 125FPM for maximum visibility. Suitable for applications where the UK lighting regulation Chapter 8 is a requirement. Combining the solid state, maintenance free and long life nature of LED technology with a proven tough housing design.



VRS PART NUMBER	AM V11050	AM V11051	AM V11052	AM V11053
HEIGHT / BASE (mm)	144mm / 153mm	157mm / 131mm	147mm / 153mm	151mm / 167mm
COLOUR	Amber	Amber	Amber	Amber
TYPE	12 LEDs	12 LEDs	12 LEDs	12 LEDs
VOLTAGE	12/24V	12/24V	12/24V	12/24V
MOUNTING	3 Bolt	1 Bolt Conical	1 Bolt	Magnetic
APPROVALS	R65 and R10	R65 and R10	R65 and R10	R65 and R10
WARRANTY	3 Year	3 Year	3 Year	3 Year

B200 SERIES LED AMBER BEACON



The B200 Series LED beacon is a popular and stylish choice for fitting in pairs onto leading truck lighting bars.

All models listed below; meet the requirements of R10 and R65. Available in 5 different mounting options with amber or clear lens makes this beacon suitable for a wide variety of vehicle applications.



VRS PART NUMBER	AM B20154LDV	AM B20054LDV	AM B20100LDV	AM B20000LDV
HEIGHT / BASE (mm)	216 x 149	188 x 149mm	216 x 149	188 x 149
COLOUR	Amber	Amber	Amber	Amber
TYPE	1 LED Module	1 LED Module	1 LED Module	1 LED Module
VOLTAGE	12/24V	12/24V	12/24V	12/24V
MOUNTING	1 Bolt	3 Bolt	1 Bolt	3 bolts
APPROVALS	R65 and R10	R65 and R10	R10	R10
WARRANTY	5 Year	5 Year	5 Year	5 Year



ECCO LED AMBER WARNING MODULES

ECCO Directional LED Modules offer multiple flash patterns and superior warning capability. All those warning lamps are ideal for installation in vehicle front grilles and are suited to a wide variety of applications.

VRS PART NUMBER	AM ED3703A	AM ED3704A	AM ED3705A	AM ED3788A
DIMENSIONS L x H x D (mm)	94 X 35 X 16	120 X 35 X 16	143 x 35 X 16	120 X 55 X 16
TYPE	3 LEDS	4 LEDS	6 LEDS	8 LEDS
VOLTAGE	12/24V	12/24V	12/24V	12/24V
APPROVALS	R10 : R65	R10 : R65	R10 : R65	R10 : R65
MOUNTING	Surface	Surface	Surface	Surface
WARRANTY	5 Years	5 Years	5 Years	5 Years



VRS PART NUMBER	AM ED5050A	AM ED5000A
DIMENSIONS L x H x D (mm)	136 x 25 x 16	142 x 30 x 35
TYPE	9 LED	6 LED
VOLTAGE	12/24V	12/24V
MOUNTING	Surface	Surface
APPROVALS	R65 and R10	R65 and R10
WARRANTY	2 Year	2 Years



VRS PART NUMBER	AM ED9040A	AM ED3744A	AM ED3755A
DIMENSIONS L x H x D (mm)	34 X 34 X 37	120 X 35 X 16	143 x 35 X 16
TYPE	4 LEDS	8 LEDS	12 LEDS
VOLTAGE	12/24V	12/24V	12/24V
APPROVALS	R10 : R65	R10 : R65	R10 : R65
MOUNTING	Flush 27mm Hole	Surface	Surface
WARRANTY	5 Years	5 Years	5 Years



VRS PART NUMBER	AM ED5110A	AM L7300LDV	AM ED0001A	AM 3812A
DIMENSIONS L x H x D (mm)	130 x 118 x 21.5	89 x 73 x 28.5	71 x 78 x 30	147 x 47 x 29
TYPE	8 LED	4 LED	4 LED	20 LED
VOLTAGE	12/24V	12/24V	12/24V	12/24V
MOUNTING	Surface	1 Bolt	1 Bolt	Surface
APPROVALS	R65 and R10	R10	R65 and R10	R65 and R10
WARRANTY	3 Year	5 Years	1 Year	3 Years

BRANCH LOCATOR

SCANIA SCOTLAND

Aberdeen	01224 896312
Bellshill	01698 841994
Dumfries	01387 250502
Dundee	01382 455556
Edinburgh	0131 333 2362
Glasgow	0141 886 5633
Grangemouth	01324 620620
Inverness	01463 729400

SCANIA NORTH

Darlington	01325 480713
Leeds	01132 311411
Newcastle-upon-Tyne	0191 256 1900
Normanton	01924 228800
Thirsk	01845 573500
Washington	01914 188500

SCANIA EAST

Boston	01205 460841
Grimsby	01472 346913
Hull	01482 296640
Lincoln	01522 681222
Scunthorpe	01724 289088
Sheffield	01142 626700
Spalding	01775 713707

SCANIA SOUTH-WEST

Abingdon	01235 553596
Avonmouth	01179 379800
Banbury	01295 272857
Bridgwater	01278 685060
Exeter	01392 824474
Fareham	01489 886800
Poole	01202 533978
Redruth	01209 310090
Shepton Mallet	01749 880088
Southampton	02380 734455
Swindon	01793 715100

SCANIA SOUTH-EAST

Gatwick	01293 305230
Heathrow	01784 240777
Maidstone	01622 538555
Purfleet	01708 257400
South Mimms	01707 649955
Stansted	01279 758088

HAYDOCK COMMERCIAL VEHICLES

Deeside	01244 547202
Ellesmere Port	0151 355 0199
Haydock	01942 714103
Preston	01772 698811
Widnes	0151 423 8601

KELTRUCK

Burton-on-Trent	01283 510011
Caldicot	01291 431715
Cardiff	02920 224671
Cheltenham	01242 252140
Coventry	02476 644664
Cross Hands	01269 844855
Droitwich	01905 777060
Groby	01530 243133
Hereford	01432 803540
Lutterworth	01455 550740
Newark	01636 700203
Nottingham	0115 986 5121
Sutton-in-Ashfield	01623 559559
Tamworth	01827 330100
West Bromwich	0121 525 7000
Willenhall	01902 637777
Worksop	01909 500595

ROAD TRUCKS

Larne	028 2827 9611
Omagh	028 8225 9198

TRUCKEAST

Corby	01536 443883
Crick	01788 823930
Ely	01353 666503
Felixstowe	01394 676625
King's Lynn	01553 771877
Milton Keynes	01908 242448
Northampton	01604 874747
Norwich	01603 748995
Peterborough	01733 555233
Stowmarket	01449 613553
Thetford	01842 763400
Wellingborough	01933 303303
Witham	01376 503003

PIP BAYLEY'S

Bedford	01767 641111
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WEST PENNINE TRUCKS

Knighton	01547 528600
Middleton	0161 653 9700
Oswestry	01691 671500
Stoke-on-Trent	01782 577955
Telford	01952 587222
Trafford Park	0161 877 7708

GRAHAM COMMERCIALS

Carlisle	01228 529149
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S. J. BARGH SALES & SERVICE

Lancaster	01524 770439
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GRANCO LTD

Newry	028 30821115
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WHAT IS ECE REGULATION R65?

The ECE Regulation R65 (Reg 65) is a United Nations standard for beacons, lightbars and other vehicle warning lamps. R65 products are tested under stringent laboratory conditions, and once approved are issued with a certificate. The 'E' mark must also be clearly displayed on the product.

Every beacon, lightbar or directional lamp is tested for light intensity and light dispersion to meet set conditions for Class I or Class II (night and day intensity levels) for its colour range and category.

Work vehicle operators using R65 approved equipment can be confident they meet the necessary standards in all markets and countries which have adopted ECE Regulation R65.

WHAT IS CHAPTER 8?

Chapter 8 of the Traffic Signs Manual is a series of traffic safety measures for vehicles on road works and temporary situations. It provides guidelines for companies operating on public highways on a range of issues. They include recommendations for vehicle warning, including beacons, when a vehicle is stopped on the highway for works purposes or inspections, as well as entering, leaving or moving within a works site and when travelling in traffic at less than general traffic speed.

Recommendations include vehicles should be equipped with either a roof-mounted flashing amber warning lightbar (comprising at least two independent light sources) or two independent roof-mounted flashing amber warning beacons, visible through 360°.

All work vehicles in Europe must be fitted with R65 approved products, and while in the UK this is not yet mandatory Chapter 8 of the Traffic Signs Manual recommends the use of R65 approved products. Many UK fleet operators and insurance companies have adopted the guidelines set out in this manual as a matter of best practice.

WHAT IS ECE REGULATION R10?

The ECE Regulation R10 (Reg 10) sets requirements for electromagnetic compatibility (EMC) in emission and/or immunity depending on whether the vehicle, its ESAs (electrical/electronic sub-assemblies) as a component or STU (separate technical unit) and whether they have immunity-related functions or not, of the REESS (rechargeable electrical energy storage system).

Electromagnetic compatibility (EMC) is a major quality feature for optical signaling systems and describes two factors: radiated interference and interference immunity.

Regulation R10 replaced the Directive 2004/104/EC which introduced the 'e' marking. This Regulation introduces the 'E' type-approval which applies to the European market and beyond (more than 50 countries are concerned including, outside Europe, Australia, Japan, the Russian Federation, etc.).

All vehicles of categories L, M, N and O are concerned by this procedure.

WHAT IS IP67 RATING?

The IP67 Ingress Protection or International Protection rating system is a classification system showing the degrees of protection from solid objects and liquids (dust and water).

The first number refers to the protection against solid objects, number 6 stands for protection from dust. The second number of the IP rating system refers to protection against liquids, number 7 stands for protection against the effects of immersion in water to depth between 15cm and 1m.

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VRS
VEHICLE RELATED SERVICES