



Installation and Operation Instructions

400 Series R65 LED Beacon

The 400 Series R65 LED Beacon features 12 powerful LED's arranged to produce a 360° flash pattern, with a flash rate of 125FPM for maximum visibility. Now with additional features including multiple flash patterns and rotate functionality (non ECE R65). This Beacon is 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. This ECCO Group Europe, UK produced beacon is designed to maximise resilience to excessive vibration and increase the life of the product.



WARNING!

Failure to install or use this product according to manufacturers recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!



Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Important! This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

Wire:

RED: = +VE (12-30V DC)

BLACK: = 0V

BLUE: = Connect permanently to GND (Black) for Simulated Rotate

YELLOW: = (Pattern Select and Synchronisation) – Connect to GND to cycle through the flash patterns. The patterns have Phase A and B. Connect the Yellow with both Phase A and the unit will synchronise up to 4 Beacons. Connect beacons with Phase A and B and the units will flash asynchronous

Flash Patterns:

Pattern No.	Description	Phase	Other
0	Steady burn 10% duty cycle (1s sync)	N/A	
1	60 FPM Single Flash (400ms on)	A	
2	60 FPM Single Flash (400ms on)	B	
3	125 FPM Single Flash (190ms on)	A	ECE R65 Approved
4	125 FPM Single Flash (190ms on)	B	ECE R65 Approved
5	75 FPM Double Flash	A	
6	75 FPM Double Flash	B	
7	75 FPM Triple Flash	A	
8	75 FPM Triple Flash	B	
9	75 FPM Quad Flash	A	
10	75 FPM Quad Flash	B	
11	125 FPM Fast Double Flash	A	ECE R65 Approved
12	125 FPM Fast Double Flash	B	ECE R65 Approved
13	60 FPM Static Flash (Airport)	A	Meets the requirement of CAP 168
14	60 FPM Static Flash (Airport)	B	Meets the requirement of CAP 168
15	Off	N/A	

Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request), and Manufacturer further warrants that this product is free from defects in materials and workmanship. This Limited Warranty extends for thirty-six (36) months from the date of purchase. Other warranties may apply, call Manufacturer for details. Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

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ECCO Group Europe
Victoria Industrial Park , Victoria Road , Leeds , LS14 2LA
T: +44 (0)113 237 5340
F: +44 (0)113 237 5360
www.eccogroup.com