



### **MEGA-FLASH 360 LOW PROFILE BEACON (EM196, EM197, EM198 & EM200)**

The MEGA-FLASH 360 LOW-PROFILE LED BEACON is a fully self-contained warning unit offering 360 degree illumination, high intensity warning power and various colour options. This beacon can utilise a variety of fixing methods such as single bolt, magnetic, motorcycle pole and suction mount applications.



The LOW-PROFILE LED BEACON is a dual voltage product (11-30 volt supply). It incorporates constant current technology and therefore retains the same brightness at all times no matter what the input voltage.

#### **Current Consumption:**

Although the average current draw is low (approx 1.5 amps), due to the type of circuit used the instantaneous peak current to a module can be significantly higher during low voltage conditions. To avoid prematurely blowing fuses it is recommended the fuse rating used is that of 5 Amps.

#### **Flash Patterns:**

- 1) To change the flash pattern ensure the unit is powered.  
(Positive and negative applied to power source)
- 2) Momentarily apply the PATTERN SELECT CABLE to the positive feed.  
(Continue to do this to cycle through all flash patterns)
- 3) To reset the unit to its original standard flash pattern (MEGA-FLASH), simply hold the PATTERN SELECT CABLE to positive for 2 seconds.
  - Mega-Flash: Standard flash pattern
  - Quad flash: Four flashes per side
  - Triple flash: Three flashes per side
  - Double flash: Two flashes per side
  - Alternating: Single flash either side
  - Hyper-Flash: Gradual increased speed flash rate

#### **Lens Cleaning**

Use soapy water and a soft cloth. As plastic (polycarbonate) scratches easily, cleaning is recommended only when necessary. Do not clean the lens using brush or power washing.

#### **Warranty**

Please see supplier brochure, website or contact the factory direct for more information relating to the warranty of this product. If any issue should arise whilst fitting or operating this product please contact the factory.

#### **EM196 - SINGLE BOLT MOUNTING - 7 core cable connections:**

Red: + 10-30V

Black: -ve Ground

Brown: +ve Pattern select – momentary apply to +ve

Blue: +ve DIM operation – latching action to +ve – will reduce brightness to 25%

Yellow: Synchronisation – link to other mega-flash units

Green: + Boost cable – latching action to +ve supply – will double brightness

#### **EM197 - MAGNETIC MOUNTING – Cigarette plug:**

Place the cigarette plug in any 12v vehicle plug socket. Selecting the latching switch (with the LED indicator) will activate the flashing beacon. Momentarily selecting the secondary switch will cycle through the flash patterns.

Speed Rating: 100mph (maximum speed in excellent conditions)

This rating is based on tests of the magnetic beacon attached to the upper, horizontal surface of a vehicle in ideal conditions. Many factors can reduce this speed rating such as: vertical or inclined surfaces, over-dynamic loading, reduced magnetic pull, material of vehicle, limiting weather conditions.

This speed rating is based upon having excellent working conditions. With less desirable conditions due care and attention should be taken by the user to ensure the beacon can be used safely. The travelling speed should be adjusted accordingly and the beacon should only be used when it is safe to do so. Redtronic Ltd are not responsible for any undesirable effects through the use of this product.

#### **EM200 - MOTORCYCLE POLE MOUNTING – 3 core cable connections:**

Brown: + 10-30V

Green / Yellow: -ve Ground

Blue: +ve Pattern select – momentary apply to +ve

**EM198 – SUCTION CUP MOUNTING – Cigarette plug:**

The suction cup produces a strong vacuum to mount the beacon temporarily to a vehicle. A manual pump removes air from between the rubber pad and the contact surface. The red line marking on the pump's plunger serves as a vacuum indicator. A check valve allows the user to re-pump the cup without removing it from the contact surface. A release mechanism is also provided.

**Contact Surface and Environmental Conditions**

Use the cup on clean, relatively smooth, nonporous surfaces, at temperatures from 0° to 120° Fahrenheit [-18° to 49° Celsius]. Moisture or contaminants can reduce the slip resistance of the cup. Always dry a surface before use to eliminate any issues associated with moisture. The unit will not mount to a ribbed surface.

**Operation****To Attach**

- 1) Clean the contact surface and inner vacuum cup to ensure there are no external elements that may cause suction issues.
- 2) Position the cup so the plunger is always visible.
- 3) Pump the plunger until the cup attaches completely. **When the red line is hidden, the beacon is ready for use.**
- 4) Check the plunger frequently to make sure the cup remains securely attached.
- 5) If the red line appears, pump the plunger until the red line is hidden again.
- 6) Place the cigarette plug in any 12v vehicle plug socket. Selecting the latching switch (with the LED indicator) will activate the flashing beacon. Momentarily selecting the secondary switch will cycle through the flash patterns.

**To Release**

- 1) Turn off power to the unit.
- 2) Pull the release tab on the suction cup until the unit disengages. CAUTION: Remove the unit when it is not in use. If the cup remains attached to a hot surface (i.e. in direct sunlight) for an extensive period of time, the rubber pad could bond with the surface, resulting in damage to the surface or to the pad.

**Maintenance**

Regularly make sure the vacuum cup's air filter is in place. (A circular filter on the underside of the suction cup) If not, discontinue use until the filter is replaced.

**Cleaning**

- 1) Remove the air filter from the cup face.
- 2) Use a clean sponge or lint-free cloth to apply soapy water or equivalent. (CAUTION: To prevent liquid from contaminating the pump, hold the cup face-down or cover the suction hole in the filter recess.)
- 3) Wipe all residue from the cup face.
- 4) Allow the cup to dry and reinstall the air filter.

**WARNINGS**

- Do not place the cup face against surfaces which could damage the sealing edge of the rubber pad.
- Do not use the cup when the red line is visible. If the red line appears frequently, discontinue use and contact manufacturer.
- Do not allow anything to interfere with free movement of the plunger while the cup is attached.
- Do not touch the beacon while the vehicle is in motion.

Speed Rating: 100mph (maximum speed in excellent conditions)

This rating is based on tests of the suction cup beacon attached to the upper, horizontal surface of a vehicle in ideal conditions. Many factors can reduce this speed rating such as: vertical or inclined surfaces, over-dynamic loading, reduced suction, material of vehicle, limiting weather conditions.

This speed rating is based upon having excellent working conditions. With less desirable conditions due care and attention should be taken by the user to ensure the beacon can be used safely. The travelling speed should be adjusted accordingly and the beacon should only be used when it is safe to do so. Redtronic Ltd are not responsible for any undesirable effects through the use of this product.

**Product specific warranty**

Aging and wear reduce the capacity of the rubber pad, it should be replaced at least once every 2 years or whenever damage is discovered.