



Technical Manual for the Steady Light – FB11 UL

Please note that every care has been taken to ensure the accuracy of our technical manual. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards.

1. INTRODUCTION

These certified beacons have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The glass reinforced polyester enclosures are suitable for offshore or onshore, where light weight combined with corrosion resistance is required.

The beacon housing is manufactured completely from UV stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion-free product.

Units can be painted to customer specification and supplied with identification labels.

2. INSTALLATION

General

When installing and operating explosion-protected electrical equipment, requirements for selection, installation and operation should be referred to eg. IEC 60079-14 worldwide and the 'National Electrical Code' in North America. Additional national and/or local requirements may apply.

Ensure that all nuts, bolts and fixings are secure.

Ensure that only the correct UL listed or certified stopping plugs are used to blank off unused gland entry points and that the NEMA/IP rating of the unit is maintained.

The unit can either be directly mounted using inserts into the back of the enclosure (stand-ard), or backstrap (optional) can be fixed to the unit giving an optional mounting position for when direct mounting is deemed unsuitable.

For direct mounting, the unit has been designed to accept M5* screws or bolts.

For backstrap mounting via $2 \times \text{Ø } \frac{5}{16}"$ (Ø8mm) fixing holes.

MEDC recommend the use of stainless steel screws:

*Please note: for direct mounting, please observe the following formula to determine length of fixing screw required:-

Length of Screw = $\frac{3}{8}"$ (10mm) + Thickness of Mounting Surface.

Cable Termination

CAUTION: Before removing the cover assembly, ensure that the power to the unit is isolated.

Unscrew and remove the 6 off screws holding the cover assembly to the base. Keep in a safe, accessible location if non-captive.

Twist the cover assembly gently clockwise and anti-clockwise, whilst pulling it away from the base. Remove to gain access to the interior.

Cable termination should be in accordance with specifications applying to the required application. MEDC recommends that all cables and cores should be correctly identified. Please refer to the wiring diagram provided with the product.

Ensure that only correct listed or certified cable glands are used and that the assembly is shrouded and correctly earthed.

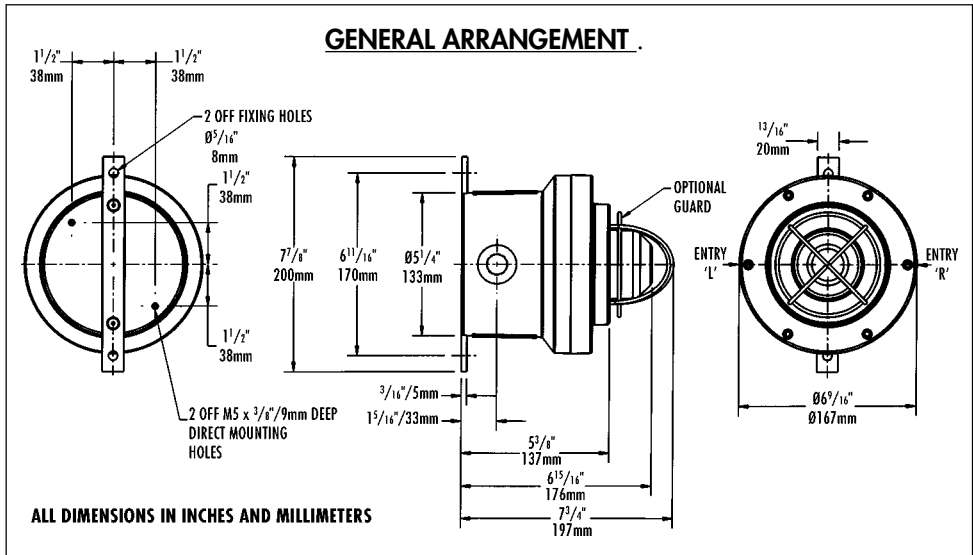
All cable glands should be of an equivalent NEMA/IP rating to that of the beacon and integrated with the unit such that this rating is maintained.

Once termination is complete, carefully push the cover assembly back onto the base, avoiding damage to the mating surfaces. Replace the 6 off screws into the holes in the cover assembly and tighten evenly. Ensure the required gap is maintained between the cover and the base.

3. OPERATION

The operating voltage of the unit is stated on the unit label.

The beacon is powered directly only.



4. MAINTENANCE

During the working life of the unit, it should require little or no maintenance. However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If a unit fault should occur, then the unit can be repaired by MEDC. All parts of the unit are replaceable.

If you acquired a significant quantity of units, then it is recommended that spares are also made available. Please discuss your requirements with the Technical Sales Engineers at MEDC.

5. SPECIAL CONDITIONS FOR SAFE USE

1. For replacement purposes the cover fixing screws shall be grade A2-70 or stronger.
2. When used in dust atmospheres, the flameproof cable entry devices or stopping plugs shall be selected and installed to maintain the dust tight (IP6X) integrity of the enclosure.

6. CERTIFICATION/APPROVALS

UL Listed Class 1, Div 2 Groups C & D
Class 1, Zone 1, AExd IIB T4/T5

Listing No. E187894

Certified temperature: $-67^{\circ}\text{F } T_{\text{amb}} + 158^{\circ}\text{F}$
 $-55^{\circ}\text{C } T_{\text{amb}} + 70^{\circ}\text{C}$

NEMA 4x and 6, IP66 and IP67

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