

Product name - XB11SL
Date – 27/02/2003
Issue - A
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MEDC

XB11 SL

TECHNICAL MANUAL

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1.0 INTRODUCTION

These status light units have been designed for use in harsh environmental conditions.

2.0 INSTALLATION

The XB11 SL is mounted via 6 x Ø11.5mm holes in the base.

The fixing holes have been designed to accept an M10 caphead screw or bolt. MEDC recommend the use of stainless steel fasteners.

The beacon will operate in any attitude.

2.1 Removing/Replacing the Well Glass/cover Assembly

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

Remove the 6 x M5 screws holding the cover to the base

Twist the cover gently clockwise and anticlockwise, while pulling away from the base until the cover is removed.

Cable termination should be in accordance with specifications applying to the application. MEDC recommend that all cables and cores should be fully identified.

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

To replace the cover use the same procedure as above but in the reverse manner.

3.0 GENERAL

When installing and operating explosion-proof electrical equipment, the relevant national regulations for installation and operation (e.g. EN60079-14 and IEE Wiring Regulations) must be observed.

Ensure that all nuts, bolts and fixings are secure.

Ensure that only the correct certified stopping plugs are used to blank off unused gland entry point. We recommend the use of 'HYLOMAR PL32 COMPOUND' on the threads of the stopping plugs in order to maintain the IP rating of the unit.

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4.0 MAINTENANCE

During the working life of the unit, it should require little or no maintenance. GRP will resist attack by most acids, alkalis and chemicals and is as resistant to concentrated acids and alkalis as most metal products.

However, if abnormal or unusual environmental conditions occur due to plant damage, accident etc. then visual inspection is recommended.

If the unit requires cleaning, then only clean exterior with a damp cloth to avoid electro-static charge build-up.

Replacement of the xenon tube, see 3.1 below, can be carried out by competent site personnel. Other repairs should be undertaken by returning the unit to **MEDC** or by an authorised repairer of Ex equipment

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

4.1 REMOVING/REPLACING XENON TUBE

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

Remove the 6 x M5 screws holding the cover to the base

Twist the cover gently clockwise and anticlockwise, while pulling away from the base until the cover is removed.

Remove the two M3 nuts holding the circuit board to the cover.


Lift the electronic assembly away from the support pillars, thus exposing the xenon tube. Remove the old tube by unscrewing the terminal block fixings. The replacement xenon tube can now be fitted (see xenon tube installation sheet, which is supplied with the replacement tube).


To replace the electronic assembly and cover use the same procedure as above but in reverse manner.

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5.0 CERTIFICATION

Certified to EN50014:1997 & EN50018:1994, EExd IIB T5 (Tamb. –55°C to +55°C)
T6 (Tamb. –55°C to +40°C)
ATEX Certificate No. BAS 99ATEX2195X

The ATEX certificate and the product label carry the ATEX group and category marking:  II 2 G

Where:  signifies compliance with ATEX

- II signifies suitability for use in surface industries
- 2 signifies suitability for use in a zone 1 area
- G signifies suitability for use in the presence of gases

6.0 APPROVALS

Electromagnetic compatibility to BS EN 50081-1 : 1992.
BS EN 50081-2 : 1995.
Ingress Protection (IP66 + 67) to BS EN 60598-1 : 1997.

NOTE 1 The cover fixing screws for the unit must be of grade A2-70 minimum, M5 x 25mm stainless steel socket head cap.