

Product Name – XB9
Date – 25/01/00
Issue – B
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MEDC

XB9 XENON BEACON

TECHNICAL MANUAL

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1.0 INSTALLATION

The XB9 xenon beacon is mounted via the standard L shaped bracket fixed to the base of the unit.

Please note that if the beacon is to be used in high amplitude vibration applications, a secondary restraint would be advisable. Please contact MEDC for details.

Refer to sales leaflet for fixing centres.

1.1 TERMINAL ACCESS

Unscrew the set screw on the lens cover one full turn (2.0mm AF hexagon key).

Using an 80-90mm hook spanner, unscrew and remove the lens cover. Once the lens cover has been removed, slide the PCB out until the terminals clear the case.

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.

Ensure there is not too much slack of cable cores within the unit, due to space limitations.

After cable termination has been completed, the PCB can be fully inserted into the enclosure, ensuring the spacer on the bottom of PCB ‘snaps’ into the retaining clip on the boss inside the enclosure.

To replace the cover, use the same procedure as above but in reverse manner, ensuring the cover is screwed tightly. There should be a maximum gap of 0.3mm between the faces of the enclosure and cover to ensure o-ring compression.

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

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1.3 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.

2.0 OPERATION

The XB9 xenon beacon is powered directly only.

3.0 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 resistant to concentrated acids and alkalis as most metal products.

However, if abnormal or unusual environment conditions occur due to plant damage or 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.

The replacement of the xenon tube, see Section 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).

3.1 REMOVING/REPLACING XENON TUBE

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

Unscrew the setscrew on the lens cover one full turn (2.0mm AF hexagon key).

Using an 80-90mm hook spanner, unscrew and remove the lens cover.

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 cover use the same procedure as above but in reverse manner, ensuring that the cover is screwed tightly.


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4.0 CERTIFICATION


Certified to EN50014:1997 & EN50018:1994, EExd IIC T6 (-55°C to +40°C)
T5 (-55°C to +55°C)

ATEX Certificate No. BAS00ATEX2031

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

5.0 APPROVALS

Electromagnetic compatibility to BS EN 50081-1 : 1992
BS EN 50081-2 : 1995

Ingress Protection (IP66 + 67) to BS EN 60598-1 : 1997