

Product Name – SM87 SL
Date – 20.10.00
Issue – C
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M E D C

XENON BEACON - SM87 SL

TECHNICAL MANUAL

Product Name – SM87 SL
Date – 20.10.00
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1.0 INTRODUCTION

These status light units have been designed for use in harsh environmental conditions. The stainless steel or aluminium alloy enclosures are suitable where light weight combined with corrosion resistance and strength is required.

2.0 INSTALLATION

The SM87 SL is mounted via 6 x Ø9mm holes in the base. For further details see the attached data sheet.

The fixing holes have been designed to accept an M8 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 M6 screws holding the cover to the base.

Twist the cover gently clockwise and anti-clockwise, whilst pulling away from the base, until it comes off.

Replace the cover in a similar, but reverse, manner to that used for removal.

2.2 Cable Termination

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 Exd certified glands are used and that the assembly is shrouded and correctly earthed.

All cable glands should be of an equivalent IP rating to that of the beacon.

In order to maintain the IP rating of the beacon, the glands should be sealed to the beacon using a sealing washer or sealing compound.

2.3 General

When installing and operating explosion-proof electrical equipment, the relevant national regulations for installation and operation (e.g. BS5345 and IEE 16th Edition 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 points. We recommend the use of 'HYLOMAR PL32 COMPOUND' on the threads of the stopping plugs in order to maintain the IP rating of the beacon.

3.0 OPERATION

The beacon can be initiated by various means, this can be determined by reference to the drawing supplied with the beacon.

4.0 MAINTENANCE

During the working life of the beacon, 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 beacon fault should occur, then the beacon can be repaired by MEDC. All parts of the beacon are replaceable.

If you have acquired a significant quantity of beacons, then it is recommended that spares are also made available (please discuss your requirements with MEDC’s Technical Sales Engineers).

5.0 CERTIFICATION

BASEEFA certification to EN50014, EN50018, EExd, Gas Group IIC. Temperature/Delay Times as follows:

Type Designation	Lamp Rating (watts)	Volts	Ambient Temp 40°C			Ambient Temp 55°C		
			T Class	Cable Entry Temperature	Time Delay (mins)	T Class	Cable Entry Temperature	Time Delay (mins)
SM87 LU3	48	240V ac	T4	108°C	5	T3	123°C	5
SM87 LU1	10	254V ac	T5	91°C	30	T4	106°C	30
SM87 LU1	10	240V ac	T6	--	10	T5	83°C	10
SM87 LU1	5	110/120V ac	T6	--	10	T5	83°C	10
SM87 LU1	5	48V dc	T6	--	10	T6	--	15
SM87 LU1	5	24V dc	T6	--	10	T6	--	15
SM87 LU1	5	12V dc	T6	--	10	T6	--	15
SM87 HXB	11	254V ac	T6	--	15	T4	86°C	15
SM87 HXB	11	240V ac	T6	--	15	T4	86°C	15
SM87 HXB	11	110/120V ac	T6	--	15	T4	86°C	15
SM87 HXB	11	48V dc	T6	--	15	T4	86°C	15
SM87 HXB	11	24V dc	T6	71°C	15	T4	86°C	15

Certificate no. Ex88B1232.

CSA certification to C22.2 (not LED) Nos. 0, 0.4, 0.5, 9, 30-M1986 94-M91, 137-M1981, Class 1 Group D. Enclosure 3/4 Certificate No. 96406.

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