



**TECHNICAL
MANUAL**

**SL5 STATUS LIGHT
RANGE**

EEExe Increased Safety, Weatherproof

Date of Issue: 02.04.02

Issue Number: Two

Sheets: 1 of 5

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SL5 Technical Manual

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1.0 **Operation**

The SL5 Status Lamps are constructed from glass reinforced polyester and polycarbonate and have been designed specifically for use in areas of harsh environmental conditions.

The units are BASEEFA EExe/EExem certified and can be manufactured as an array with up to 5 off connected lamp units. Each unit comes complete with a set of standard terminals (AKZ4 or AKZ2.5), with other options such as external paint finishes and backplates available.

2.0 **Installation**

Note: Before carrying out any installation or maintenance work ensure that the power is isolated.

The status lamps are mounted via 4 holes on the base of each unit or alternatively the units may be mounted via 6 holes on an optional backplate, details of the hole sizes and fixing centres can be found in the attached data sheet. Units may be fixed to vertical, horizontal or angled surfaces

The use of stainless steel fasteners and anti-vibration washers is recommended.

2.1 **Removing Cover Assembly**

Unscrew the 4 x M5 retained screws in the cover of the status light using a 4.0mm A/F hexagon key.

2.2 **To Remove/Replace The Potted Lamp Units:-**

Filament Units:

For extra safety, twin lamps are fitted in each unit. If one lamp fails, the other will remain illuminated but the lamp unit should be replaced at the first opportunity. To do this, once the cover has been removed, disconnect the wires from the terminals then simply unscrew the 2 x M3 screws holding the mounting rail to the cover. Then finally unclip the lamp unit from its mounting rail.

Replace a new lamp unit in a similar, but reverse manner to that used for removal.

LED & Xenon Units:

In the event of the Xenon tubes/LED clusters failing the whole cover must be replaced. Remove the cover as instructed in 2.1. Release the connection wiring from the relevant terminals, before disconnecting the cover from the retaining strap which is retained via a M3 screw situated on the underside of the cover.

Replace the new cover assembly in a similar, but reverse manner to that used for removal. Check the O'ring situated in the groove on the underside of the cover and is secure before final assembly.

2.3 Cable Termination

Unscrew the 4 x M5 retained screws in the cover of the status light using a 4.0mm A/F hexagon key.

Remove the cover exposing the terminals and the internal earth stud/terminal (see 2.4 General Termination Details).

After cable termination has been completed, the cover can be replaced and secured with the 4 x M5 fixing screws, maximum torque 4Nm.

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.

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

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

The internal earth terminal must be used for the equipment grounding connection.

2.4 General Termination Details

When installing and operating electrical equipment, requirements for selection, installation and operation eg. IEC 60079-14 worldwide should be referred to. Additional national and/or local requirements may apply.

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.

3.0 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 replaced 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.

4.0 Certification

Filament Units

BASEEFA EExe II T3


CENELEC EN50014 and EN50019


LED & Xenon Units

BASEEFA EExem II T4

CENELEC EN50014, EN50019 and EN50028

ATEX certificate no BAS02ATEX2108X.

The ATEX certificate and the product label carry the ATEX group and category marking:  II2G

Where  signifies compliance with ATEX.

II signifies suitability for use in surface industries.

2 signifies suitability for use in a zone 1 and zone 2 area.

G signifies suitability for use in the presence of gases.

5.0 Approvals

EMC in compliance with EN50081-1:1992 and EN50082-2:1995 (LED & Xenon only).
IP66 and IP67.

6.0 Special conditions for safe use

- 1) All terminals, whether used or not, shall be fully tightened down.
- 2) Interconnected units must be of the same type & electrical rating.
- 3) The terminals shall only be installed & wired with cable in a temperature range of -10°C to +80°C