



Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

| | | | |
|---|--|---|----------------------------|
| IA CERTIFICATE | MASC MS/21-2498X | Issue | 4 |
| Issue Date | 07 July 2023 | Expiry Date | 29 March 2031 |
| Applicant | Electroflame (Pty) Ltd, 83 Brand Street, President Park, Midrand, South Africa | | |
| Manufacturer | Electroflame (Pty) Ltd, 83 Brand Street, President Park, Midrand, South Africa | | |
| Description (See "Annex A" below) | | | |
| Equipment | Levelite MK3 & Unilite MK2 | Type | Levelite MK3 & Unilite MK2 |
| Photo | | | |
| MARKING: <i>Must be additionally applied to the equipment</i> | Applicant / Manufacturer | Electroflame (Pty) Ltd | |
| | Type | Levelite MK3 & Unilite MK2 | |
| | Ex Marking | Ex db I Mb (Brass end-caps only) Ex db IIC T4 Gb Ex tb IIIC T135° Db IP65 | |
| | IA Number | MASC MS/21-2498X | |
| | Serial Number | See "Annex A" below | |
| | Safety Parameters | See "Annex A" below | |
| WARNING(S) | "ISOLATE ELSEWHERE BEFORE OPENING THE COVER" | | |
| Compliance: | | | |
| The equipment as described above and in MASC report 21-2498 R3 has been allocated the rating <u>Explosion Protected Ex db I Mb, Ex db IIC T4 Gb & Ex tb IIIC T135° Db IP65</u> utilizing the SANS/IEC Standards: | | | |
| <ul style="list-style-type: none"> SANS (IEC) 60079-0: 2019 General requirements SANS (IEC) 60079-1: 2015 Equipment protection by flameproof enclosures "d" SANS 60079-31: 2014 "Explosive atmospheres" –Part 31: Equipment dust ignition protection by enclosure "t" ARP 0108: 2018 Regulatory requirements for explosion protected apparatus | | | |
| <i>Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.</i> | | | |
| Special conditions of safe use X: | | | |
| <ul style="list-style-type: none"> See 'Annex A' below | | | |
| Conditions of manufacture: | | | |
| <ul style="list-style-type: none"> See "Annex A" below | | | |
| F. van Wyk TECHNICAL SPECIALIST | | M. Erasmus TECHNICAL SPECIALIST | |
| <p style="text-align: center;">This certificate only covers the sample submitted and does not cover production units.</p> <p>According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).</p> | | | |



Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- SANS 10086 requirements;
- Any conditions mentioned in the above certificate;
- Any relevant requirements of the MHS Act;

Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).



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IA CERTIFICATE: MASC MS/21-2498X
Equipment: Levelite MK3 & Unilite MK2
(Supplement four – Dimension Update)

ANNEX A

| Description | Enclosure | Populated | Unpopulated |
|------------------------------------|--|---|---|
| | General | | <ul style="list-style-type: none"> The Levelite MK3 & Unilite MK2 was manufactured by Electroflame (Pty) Ltd. The unit consisted of a polycarbonate tube with threaded end-caps on both sides. The tube had the dimensions of Ø54,5mm and a maximum length of 1665mm (Depending on LED Strips used) and stipulated as per certification drawings. The end-caps have an inspection cover that is secured via three M4 x 0.7p x 12mm socket head cap screws. The unit maintain an IP65 rating by means of an O-Ring seal between the endcaps and the inspection covers. The one end-cap houses a M20 x 1.5p threaded entry for connection proposes. The Unilite MK2 is the portable version of this light. |
| Dimensions | | Ø54,5mm and up to a maximum length 1665mm. Note: A minimum length of 1340mm applies for units manufactured to Drawing Number DDLL3-01A | |
| Covers / Seals | | The unit maintain an IP65 rating by means of a continuous seal between the endcaps and the tube. | |
| Fasteners | | M4 x 0.7p x 12mm socket head cap screws | |
| Material | | <ul style="list-style-type: none"> Aluminium end-caps with polycarbonate tube. Brass end-caps with polycarbonate tube. | |
| Population | | <p>This unit is populated with the following:</p> <ul style="list-style-type: none"> LED PCB Electronic driver Terminal block <p>If the population is updated from original certification a new layout drawing MUST be submitted to MASC for separate certification.</p> | |
| Supply Voltage | Up to a maximum of 250VAC and 50VDC | | |
| Standard compliance | See "certificate" above | | |
| Warnings | See "certificate" above | | |
| Conditions of Certification | | | |
| Special Conditions of safe use (X) | <ul style="list-style-type: none"> All terminations should be done in an Ex manner The rating(s) of the unit(s) may not be exceeded. The unit to be installed with supply cable incorporating an earthing or equipotential bonding conductor. | | |
| Conditions of manufacture | <ul style="list-style-type: none"> The seals of the unit must remain intact for the IP65 rating. Polycarbonate tube to be treated with anti-static per Electroflame P/N: BCOAS-00001 or be supplied with anti-static sleeve | | |

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MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

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