



Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

THIS DOCUMENT IS ISSUED 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 S/21-2427X	Issue	3
Issue Date	21 October 2022	Expiry Date	01 February 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	UNILIGHT	Type	UNILIGHT
Photo			
MARKING:	Applicant / Manufacturer	Electroflame (Pty) Ltd	
	Type	UNILIGHT	
	Ex Marking	Ex db IIC T4 Gb Ex tb IIIC T135°C Db IP65	
	IA Number	MASC S/21-2427X	
	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 21-2427 R3 has been allocated the rating <u>Explosion Protected Ex db IIC T4 Gb & Ex tb IIIC T135°C 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 Flameproof enclosures d SANS 60079-31:2014 "Explosive atmospheres" –Part 31: Equipment dust ignition protection by enclosure "t" ARP 0108:2014 Regulatory requirements for explosion protected apparatus 			
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 			
 M. Erasmus TECHNICAL SPECIALIST		 W. Haywood 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 S/21-2427X
Equipment: UNILIGHT
 (Supplementary three – Supply Voltage Update)

ANNEX A

Description	Enclosure	Populated	Unpopulated
		General	<ul style="list-style-type: none"> The UNILIGHT was manufactured by Electroflame (Pty) Ltd. The unit consisted of a polycarbonate tube with end-caps on both sides. The tube had the following dimensions of 42mm cylindrical x maximum length of 2165mm (Depending on LED Strips used). The unit maintain an IP65 rating by means of an O-Ring seal between the endcaps and the tube. The endcaps are secured via threaded joints and M5 locking screw.
	Dimensions	<ul style="list-style-type: none"> 42mm cylindrical x Max 2165mm. 	
	Covers	<ul style="list-style-type: none"> The unit maintain an IP65 rating by means of a continuous seal between the endcaps and the tube. 	
	Fasteners	<ul style="list-style-type: none"> M5 locking Screw <p>Note: The exact entry combination by the certification drawings. All threaded entries has a pitch of 1.5 and the holes are tapped 6H.</p>	
	Material	<ul style="list-style-type: none"> Nylon end-caps with polycarbonate tube 	
	Population	<p>This unit is populated with the following:</p> <ul style="list-style-type: none"> LED PCB 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"> The equipment is only permitted to be used with an appropriately certified gland All terminations should be done in an Ex manner The rating(s) of the unit(s) may not be exceeded. The unit shall be installed to prevent any inadvertent impact. 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. 		

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

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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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