




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 S/20-2243X	Issue	I Supplement to include optional LED drivers
Issue Date	19 May 2025	Expiry Date	27 August 2030
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	LED Light	Type	NEPTUNE
Photo			
MARKING:	Applicant / Manufacturer Equipment Type Ex Marking IA Number	Electroflame (Pty) Ltd LED Light NEPTUNE Ex nA IIC T4 Gc Ex nA ec mb IIC T4 Gc (EF1 / EF2 or EF8 Driver application) Ex tb IIIC T108°C Db IP65 MASC S/20-2243X	
WARNING:	"DO NOT OPEN WHEN ENERGIZED"		
<p>The equipment as described above and in report MASC 20-2243 R1 has been allocated the rating <u>Explosion Protected as above</u> utilizing the principals in the following SANS Standards:</p> <ul style="list-style-type: none"> SANS 60079-0: 2019 General requirements SANS 60079-7: 2023 Equipment protection by increased safety "e" SANS 60079-15: 2018 Equipment protection by type of protection "n" SANS 60079-18: 2022 Equipment protection by encapsulation "m" SANS 60079-31: 2014 "Equipment dust ignition protection by enclosures "t" ARP 0108:2014 Regulatory requirements for explosion protected apparatus NCoP 2398: 2022 National Code of Practice for Electrical Machinery in Hazardous Locations - Regulatory requirements for explosion-protected apparatus <p>Conditions:</p> <ul style="list-style-type: none"> ➤ This certificate covers only a national implementation of above standards for use in South African industry. ➤ It is up to the manufacturer to ensure that the product complies to all relevant standards for the application. ➤ This document will not be supported by MASC outside the borders of South Africa and may not be used for other/international certification purposes. ➤ This certificate may only be reproduced in full, is not transferable and remains the property of the issuing body. This certificate only covers the sample submitted and does not cover production units. ➤ 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 markscheme or batch testing by an accredited test laboratory). 			
Specific conditions of use:		Conditions of manufacture:	
<ul style="list-style-type: none"> See "Annex A" below. 		<ul style="list-style-type: none"> See "Annex A" below 	
M. Erasmus TECHNICAL SPECIALIST		W. Haywood TECHNICAL SPECIALIST	



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).

This certificate may only be reproduced in full
 The certificate is not transferable and remains the property of the issuing body.

Mining And Surface Certification (Pty) Ltd
 Unit 5 Lelyta Park, 45 Jurg Avenue, Hennospark, Ext 87
 Centurion 0157



IA CERTIFICATE: MASC S/20-2243X NEPTUNE LED LIGHT

ANNEX A

Description	Enclosure	Populated	Unpopulated
	General	<ul style="list-style-type: none"> • The NEPTUNE LED LIGHT was manufactured by Electroflame (Pty) Ltd. • The unit consisted of casted aluminium housing with approximate dimensions of 445mm x 280mm x 65mm. • The unit maintain an IP65 rating by means of a continuous seal between the casted housing and the glass lens and a seal on the control gear compartment. • The cover lens is secured with four keeper plates held by socket head cap screws. • The control gear cover is also secured with four socket head cap screws. 	
	Entries	<ul style="list-style-type: none"> • One x M 20 / 25 threaded entry 	
	Material	See Above	
	Population	<p>This unit is populated with the following:</p> <ul style="list-style-type: none"> • LED Driver <ul style="list-style-type: none"> a) EF1 Marking: Ex be Mb IIC T5 Gb b) EF2 Marking: Ex ec mb IIC T5 Gc c) EF8 Marking: Ex ec mc IIC T5 Gc d) Suitably Certified Ex Driver e) For Ex t applications any standard LED driver • LED PCB Fitted • Terminal block (optional BK3 or BK2) • Current limit device <p>Note: For population into an unpopulated enclosure a layout drawing MUST be submitted to MASC for separate certification. If the population is updated from original certification a new layout drawing MUST be submitted to MASC for separate certification.</p>	
Ratings	230VAC 112W Max		
Standard compliance	See "certificate" above		
Warnings	See "certificate" above		
Conditions of Certification			
Specific conditions of use	<ul style="list-style-type: none"> • This approval only covers the equipment as tested. It is incumbent on the client to maintain the Ex-characteristics of the equipment as required by the relevant legislation and standards mentioned above. • The manufacturer's ratings of the equipment may not be exceeded. • Installation / supply cable shall comply with suitable current rating as applicable, keeping in mind the deratings for ambient / service temperatures. • Special conditions of individually certified components remain applicable (if applicable). • Only suitably certified glands, adaptors, blanking plugs may be used in all apertures. <ul style="list-style-type: none"> ○ The equipment / components' certification conditions / schedule of limitations must be complied with. ○ All unused entries must be sealed using suitably certified blanking elements. 		
Conditions of manufacture	<ul style="list-style-type: none"> • The labels with information / certification details as indicated in this certificate must be maintained on the enclosure, the label must be legible and indelible permanently fixed to the apparatus. • It is a condition of certification that a copy of this certificate and instructions must be provided / made available with each assembly. 		

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

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

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).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices

This document may only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body.

This document will not be supported by MASC for certification purposes outside the borders of South Africa.