



Mining And Surface Certification (Pty) Ltd

2015/021934/07



T0444



GOVERNMENT APPROVED
INSPECTION AUTHORITY

Certificate Number:

MASC MS/16-1580

Issue:

14 September 2016

Expire:

14 September 2026

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IA – CERTIFICATE

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

Ex – Type Examination

Certificate number:

MASC MS/16-1580

Equipment:

Socket Pilot Light

Serial No:

(See “Conditions of Certification”)

Applicant:

Electroflame (Pty) Ltd

Address:

PO Box 2914
Halfway House
1685
Gauteng
South Africa

Manufacturer:

Electroflame (Pty) Ltd

Address:

PO Box 2914
Halfway House
1685
Gauteng
South Africa

DESCRIPTION:

The Socket Pilot Light assembly was manufactured by Electroflame (Pty) Ltd. The unit consist of a body and a light transmitting dome screwed together. Between the body and the dome a colour indication ring was installed for indication purposes. The dome was manufactured from Polycarbonate material. The base consisted of a non-metallic material or from brass. The Socket Pilot Light assembly had the following overall dimension: 98mm x (29mm diameter) for configuration (End mounting body), 116mm x (29mm diameter) for configuration (Base included with cable and plug) and 98mm x (42mm diameter) for configuration (Shoulder and end mounting body).

The unit contains the following:

- Electronic sub-assembly
- Cable (2 core or 3core)
- Braided cable
- Approved Plug
- Lock nut
- Resin
- Gasket
- Neoprene
- PVC
- Mild or Stainless steel or Brass
- FR453
- Power flex

/ . Marking ...

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MARKING:

Manufacturer: Electroflame (Pty) Ltd
Type: Socket Pilot Light
Serial No: (See "Conditions of Certification")
Ex Rating: Ex d e IIC T6 Gb
Ex tb IIIC T85°C Db
I.A. No: MASC S/16-1580

Marking for Option Two Brass:

Manufacturer: Electroflame (Pty) Ltd
Type: Socket Pilot Light
Serial No: (See "Conditions of Certification")
Ex Rating: Ex d e IIC T6 Gb
Ex tb IIIC T85°C Db
I.A. No: MASC MS/16-1580

COMPLIANCE:

The equipment as described above and in MASC report 16-1580 is hereby certified "Explosion Protected" Ex d e IIC T6 Gb / Ex tb IIIC T85°C Db / Ex d e IIC T6 Gb and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS/IEC Standards:

The evaluation was conducted according to the requirements of:

- i) SANS (IEC) 60079-0 : 2012 "General Requirements"
- ii) SANS (IEC) 60079-1 : 2015 "Equipment protection by flameproof enclosures 'd'"
- iii) SANS (IEC) 60079-7 : 2007 "Equipment protection by increased safety 'e'"
- iv) SANS 60079 Part 31 : 2014 "Equipment dust ignition protection by enclosure 't'"
- v) ARP 0108 (Edition 1.1) "Regulatory requirements for explosion protected apparatus".

Location	Zone 1 & 2 Zone 21 & 22	Gas / Surface Dust
Hazard Frequency	---	Intermittent as could occur under normal operating conditions in hazardous area
Environment	Group I Group IIC Group IIIC	Methane (coal dust) (as applicable) Hydrogen / Acetylene Dust (Metallic and non-metallic)
Limiting Temperature	T6 / T85°C	Gas / Dust
Ambient Temperature	-20°C to +40°C	

The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- i. SANS 10086 requirements;
- ii. Any conditions mentioned in the above report;
- iii. Codes of Practice enforced in terms of Regulations 21.17.2 of Minerals Act, by Chief Inspector of Mines;
- iv. Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- v. Any relevant requirements of the MHS Act or the OHS Act.

/ . CONDITIONS...

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CONDITIONS OF CERTIFICATION:

SPECIAL CONDITIONS OF USE "X":

- None

CONDITIONS OF MANUFACTURE:

- None

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.)

Approved on behalf of MASC



F du Toit
TECHNICAL SPECIALIST



M. Erasmus
TECHNICAL SPECIALIST

Mining And Surface Certification

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

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