



Mining And Surface Certification (Pty) Ltd

2015/021934/07



Certificate Number: MASC M/11-219X
Issue: 01 July 2015
Expire: 01 July 2018
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IA – CERTIFICATE (Revision 4: Review by MASC as per ARP 0108)

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 M/11-219X**
Equipment: TX5054 Dead Line CHEKER
Serial No: (see “conditions of certification”)
Applicant: Trolex Ltd.
Address: Hazel Grove
Stockport
Cheshire
SK7 5DY
United Kingdom

Manufacturer: Trolex Ltd.
Address: Hazel Grove
Stockport
Cheshire
SK7 5DY
United Kingdom

DESCRIPTION:

The TX5053 / TX5054 Dead Line Chekers are small battery powered portable instruments designed to confirm that electrical circuits which have been isolated are in fact ‘dead’. The two models are of identical design.

The Dead Line Cheker comprises a printed circuit board completely sealed within a mould ABS plastic enclosure which is fitted with a pocket clip and coated with a static-dissipative coating. The enclosure has a red transparent window at one end to view an LED. The ON/OFF switch, near the pocket clip, is operated through a neoprene sleeve which is fitted over part of the enclosure.

The unit is powered by five Nickel Cadmium button cells which are charged by a non-contact inductively coupled pulse charger.

/ . MARKING...

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MARKING

Trolex Ltd.

TX5054 Dead Line CHEKER

Ex Rating: Ex ia I

IA No: MASC M/11-219X

Serial No: (see conditions of Certification)

COMPLIANCE:

The unit as described above and in MASC letter **11-219** is hereby certified "Explosion Protected" Ex ia I 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 Standards:

The evaluation was conducted according to the requirements of:

- **SANS/(IEC) 60079-0 : 2000 (Edition 4.0) "General Requirements";**
- **SANS/(IEC) 60079-11 : 1999 (Edition 4) "Intrinsic Safety 'i'";**
- **ARP 0108 (Edition 1.1) "Regulatory requirements for explosion protected apparatus".**

Location	Zone 0 & 1	Gas / coal dust: Underground.
Hazard Frequency	---	Continuous as could occur under normal operating conditions in hazardous area
Environment	Group I	Methane and coal dust
Limiting Temperature		450°C (methane gas) / 150°C (coal 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.

SPECIAL CONDITIONS OF SAFE USE (X)

1. The enclosure is coated with a static-dissipative coating, care should be taken to not damage this coating and therefore reduce its effectiveness.

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CONDITIONS OF CERTIFICATION:

1. This Certificate remains valid based on a three yearly review covered by an official MASC letter.
2. The apparatus must be additionally marked in a clear, legible, visible and indelible manner with the MASC marking details above.
3. This certificate of approval only covers the equipment as certified above and does not include any scheduled additions or variations/amendments/new issues to the certificate(s), made after the above date.
4. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by BASEEFA and in this approval.
5. The BASEEFA certification must remain valid.
6. The bearing of the requirements in the ARP 0108 (or regulations) and SANS 10108 on the certification of the equipment must remain unchanged.
7. All production units must be covered by a QAN, Mark Scheme or Batch Evaluation.

Approved on behalf of MASC



F du Toit
TECHNICAL SPECIALIST

Mining And Surface Certification

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 is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test / assessment, MASC or its members/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 issued pursuant to a test / assessment.

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).

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

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