



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: Page 1 of 4

Applicant: **MCE Lasers**
17-19 Killara Road
Campbellfield VIC 3061
Australia

Electrical Apparatus: **Tunnel Laser Type LD.60.IS**
Optional accessory:

Type of Protection: **ia**

Marking: **Ex ia I/II C T4 IP55**
IECEX SIM 11.0003

*Approved for issue on behalf of the IECEx
Certification Body:* Ashraf Chowdhury

Position: Principal Engineer

Signature:
(for printed version)

Date: 27 July 2011

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Safety in Mines Testing and Research Station (Simtars)
2 Smith Street
REDBANK QLD 4301
Australia





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Manufacturer: **MCE Lasers**
17-19 Killara Road
Campbellfield VIC 3061
Australia

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[AU/SIM/ExTR11.0003/00](#)

Quality Assessment Report:

[AU/SIM/QAR11.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tunnel Laser, Type LD.60.IS, is a laser diode equipment used in accurate construction and alignment of tunnels.

The device comprises a 2 mm thick stainless steel cylinder enclosure, which houses the electronics & four D-size batteries (Panasonic LR20GW). The cylindrical enclosure measures approximately 455 mm in length and 60 mm in diameter. The front glass holder and threaded battery end cap are located at opposing ends of the cylinder. The end cap comprises a power switch and an internal battery spring to maintain contact pressure on the cells and the power switch. Both ends of the cylindrical enclosure are made of brass and protected by black rubber caps.

CONDITIONS OF CERTIFICATION: NO



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Additional information:

The batteries can only be removed or replaced in a non-hazardous area.