



# 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](http://www.iecex.com)

Certificate No.: IECEx SIM 11.0003

Issue No: 0

Certificate history:

Issue No. 0 (2011-07-27)

Status: **Current**

Page 1 of 4

Date of Issue: **2011-07-27**

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

Equipment: **Tunnel Laser Type LD.60.IS**

*Optional accessory:*

Type of Protection: **ia**

Marking:  
Ex ia I/IIIC 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:*

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





# IECEX Certificate of Conformity

Certificate No: IECEx SIM 11.0003

Issue No: 0

Date of Issue: 2011-07-27

Page 2 of 4

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

Additional 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](#)



# IECEX Certificate of Conformity

Certificate No: IECEX SIM 11.0003

Issue No: 0

Date of Issue: 2011-07-27

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

*NOTE: This Certificate was originally suspended on 1st September 2016 at the request of the issuing IECEx Certification Body (ExCB) and subsequently reinstated on 3rd August 2017. Products produced or installed prior to 1st September 2016 or after 3rd August 2017 are NOT affected by this suspension. Any comments or questions may be directed to the ExCB.*

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.

**SPECIFIC CONDITIONS OF USE: NO**



# IECEX Certificate of Conformity

Certificate No: IECEX SIM 11.0003

Issue No: 0

Date of Issue: 2011-07-27

Page 4 of 4

**Additional information:**

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

**Annex:**

[IECEX SIM 11.0003 Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx SIM 11.0003

Issue No.: 0

Annex

Page 1 of 2

## Manufacturer's documents:

Drawing No	Subject	Rev.	Date
007-07-000-04-001-02	LD.60.IS Item List	02	19/03/11
007-07-100-04-002-02	LD 60 IS TUNNEL Laser	1	19-03-11
007-07-000-05-002-02	Wiring Diagram LD.60.IS	02	14-01-05
007-07-000-05-001-02	LD60.IS	02	29-10-04
007-07-000-06-001-02	LD60.IS	02	18-Dec-2004
007-07-000-08-001-02	Bill of Material	02	14.01.05
13-500-017-02	Laser Diode Driver	02	05.05.1999
13-500-007-02	IR30C	02	18-Dec-2004
13-500-018-02	Bill of Material	02	10.07.04
007-03-100-03-005-00	BRASS TERMINAL	0	22-07-04
007-03-100-03-003-01	BATT PACK TUBE	1	16-03-11
007-03-100-03-006-01	EXPANDER	1	16-03-11
007-01-100-03-010-00	Rubber Cap	-	02/05/2003
007-03-100-03-004-01	BATT PACK END CAP	0	19-03-11
012-69-003-03-001-00	CONICAL-COMPRESION-SPRING	00	05/04/02
11E-000-012	SPRING HOLDER	-	26-06-02
007-07-100-03-006-00	HEAT SINK	0	19-11-04
007-07-100-03-005-01	SWITCH HOLDER	1	16-03-11
007-07-100-03-004-03	STAINLESS STEEL TUBE	1	26-03-11
007-07-100-03-003-02	50mm INNER TUBE	0	19-03-11

(Drawing list continued next page)

Certificate issued by:

**Safety in Mines Testing  
and Research Station**

**(Simtars)**

2 Smith Street  
REDBANK QLD 4301  
Australia





# IECEX Certificate of Conformity

Certificate No.: **IECEX SIM 11.0003**

Issue No.: 0

**Annex**

Page 2 of 2

Drawing No	Subject	Rev.	Date
007-07-100-03-002-01	BATTERY PACK HOLDER	0	16-03-11
007-07-100-03-001-00	FRONT GLASS HOLDER	0	21-07-04
013-04-124-03-304-04	LOCK NUT	0	12-08-05
007-03-100-03-007-00	LOCK NUT	0	27-07-04
013-04-124-03-303-03	LASER DIODE HOLDER	0	12-08-05
007-07-100-03-009-00	EXTERNAL LINE GENERATOR	0	23-10-10
-	Operator's Manual	2	JULY 2011

Certificate issued by:

**Safety in Mines Testing  
and Research Station**

**(Simtars)**

2 Smith Street  
REDBANK QLD 4301  
Australia

