



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.: IECEx SIM 13.0004

Issue No: 0

Certificate history:

[Issue No. 0 \(2013-03-07\)](#)

Status: **Current**

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Date of Issue: **2013-03-07**

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

Equipment: **Tunnel Lasers Types LD.25.IS, LD.35.IS and LD.35.ISG**

Optional accessory:

Type of Protection: **ia**

Marking:

Ex ia I/II C T 3 IP 55 (LD.25.IS)
Ex ia I/II C T 3 IP 55 (LD.35.IS / LD.35.ISG powered by Powercell PC14AU)
Ex ia I/II C T 4 IP55 (LD.35.IS / LD.35.ISG powered by Panasonic LR14XW)
IECEX SIM 13.0004

*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](#).

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

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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/ExTR13.0002/00](#)

Quality Assessment Report:

[AU/SIM/QAR11.0001/02](#)



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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 is a portable alignment laser housed in a stainless steel cylindrical housing and is powered by two AA-size (LD.25.IS) or two C-size primary cell (LD.35.IS / LD.35.ISG). The laser light aperture and threaded battery end cap are located at opposing ends of the housing. The battery end-cap comprises an internal battery spring to maintain contact pressure on the cells and an external power button sealed by a rubber cap.

Temperature classification and type of battery allowed for each model is as below.

Model Number	Battery	Temperature classification
LD.25.IS	AA-size primary cell Powercell type PC15AU	T3
LD.35.IS	C-size primary cell Powercell type PC14AU	T3
	C-size primary cell Panasonic type LR14XW	T4
LD.35.ISG	C-size primary cell Powercell type PC14AU	T3
	C-size primary cell Panasonic type LR14XW	T4

SPECIFIC CONDITIONS OF USE: NO



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Additional information:

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

Annex:

[IECEX SIM 13.0004 Annex.pdf](#)



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Manufacturer's documents:

Drawing No	Subject	Rev.	Date
Drawings for LD.25.IS			
007-14-000-04-000-01	LD.25.IS Item List	01	25/02/13
007-14-000-03-000-02	LD-25.IS ASSEMBLY	0	24-02-13
007-14-000-03-001-05	MAIN TUBE	5	27-02-13
007-14-000-03-010-00	DIODE HOLDER	0	5-11-12
007-14-000-03-005-01	SWITCH HOLDER	1	24-02-13
007-14-000-03-006-00	SPRING HOLDER	0	5-11-12
007-14-000-03-004-00	BATTERY HOUSING	0	5-11-12
007-14-000-03-007-00	BATT PACK CONTACT HOLDER	0	5-11-12
007-14-000-03-003-00	RED DIODE ISOLATOR	0	5-11-12
007-14-000-03-008-00	CONTACT TERMINAL	0	5-11-12
007-13-000-03-010-00	RED LASER DIODE	0	29-07-12
007-14-000-03-002-00	FRONT COVER	0	5-11-12
007-14-000-03-012-00	CONICAL – COMPRESSION SPRING	0	5-11-12
007-14-000-03-011-01	SAFETY RESISTOR MOUNTING CRADLE	0	9-01-13
007-14-000-05-01-00	LD.25.IS LD Driver	00	20/02/2013
007-14-000-06-01-00 (Sheets 1 to 4 of 4)	LD.25.IS	00	19-Jan-2013
007-14-000-08-01-00	Bill of Material for 007-14-000-05-01-00 (LD.25.IS)	00	31/07/2012
OM.LD.35.IS	Operator's Manual	1	FEBRUARY 2013

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Drawing No	Subject	Rev.	Date
Drawings for LD.35.IS			
007-13-000-04-000-01	LD.35.IS Item List	01	25/02/13
007-13-000-03-000-01	LD.35.IS ASSEMBLY	0	10-01-13
007-13-000-03-001-01	OUTER HOUSING	1	27-02-13
007-12-000-03-002-00	DIODE HOLDER	0	29-07-12
007-12-000-03-003-00	BATTERY END CAP	0	29-07-12
007-12-000-03-004-00	SWITCH HOLDER	0	29-07-12
007-12-000-03-005-00	BATTERY HOUSING	0	29-07-12
007-12-000-03-006-00	BATTERY HOUSING END CAP	0	29-07-12
007-12-000-03-007-00	SPRING HOLDER	0	29-07-12
007-13-000-03-008-01	RED DIODE ISOLATOR	1	24-02-13
007-12-000-03-009-00	BATTERY TERMINAL	0	29-07-12
007-13-000-03-010-00	RED LASER DIODE	0	29-07-12
007-12-000-03-013-00	FRONT COVER	0	3-11-12
007-14-000-03-012-00	CONICAL – COMPRESSION SPRING	0	5-11-12
007-12-000-03-010-00	SAFETY RESISTOR MOUNTING CRADLE	0	10-01-13
007-13-000-05-01-00	LD.35.IS LD Driver	00	09/02/2013
007-13-000-06-01-00 (Sheets 1 to 4 of 4)	LD.35.IS	00	19-Jan-2013
007-13-000-08-01-00	Bill of Material for 007-13-000-05-01-00 (LD.35.IS)	00	28/07/2012
OM.LD.35.IS	Operator's Manual	1	FEBRUARY 2013

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Drawings for LD.35.ISG			
007-12-000-04-000-01	LD.35.ISG Item List	01	25/02/13
007-12-000-03-000-01	LD.35.ISG ASSEMBLY	0	10-01-13
007-12-000-03-001-01	OUTER HOUSING	1	27-02-13
007-12-000-03-002-00	DIODE HOLDER	0	29-07-12
007-12-000-03-003-00	BATTERY END CAP	0	29-07-12
007-12-000-03-004-00	SWITCH HOLDER	0	29-07-12
007-12-000-03-005-00	BATTERY HOUSING	0	29-07-12
007-12-000-03-006-00	BATTERY HOUSING END CAP	0	29-07-12
007-12-000-03-007-00	SPRING HOLDER	0	29-07-12
007-12-000-03-008-00	GREEN DIODE ISOLATOR	0	29-07-12
007-12-000-03-009-00	BATTERY TERMINAL	0	29-07-12
007-12-000-03-013-00	FRONT COVER	0	3-11-12
007-14-000-03-012-00	CONICAL – COMPRESION SPRING	0	5-11-12
007-12-000-03-010-00	SAFETY RESISTOR MOUNTING CRADLE	0	10-01-13
007-12-000-05-01-00	LD.35.ISG LD Driver	00	09/02/2013
007-13-000-06-01-00 (Sheets 1 to 4 of 4)	LD.35.IS	00	19-Jan-2013
007-12-000-08-01-00	Bill of Material for 007-12-000-05-01-00 (LD.35.ISG)	00	28/07/2012
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