



# 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 TSA 15.0028X Issue No: 1 Certificate history:  
Status: **Current** Issue No. 1 (2017-05-11)  
Date of Issue: **2017-05-11** Issue No. 0 (2016-01-14)  
Applicant: **Austdac Pty Ltd** Page 1 of 5  
Unit 1, 42 Carrington Road  
Castle Hill NSW 2154  
**Australia**  
Equipment: **Intrinsically Safe LED Light Type LLS2**  
Optional accessory:  
Type of Protection: **Intrinsic safety 'ia'**  
Marking:  
Austdac  
IS LED Light type LLS2  
Ex ia I Ma and Ex ia IIB T3 Ga IP65  
IECEX TSA 15.0028X  
S/N: \_\_\_\_\_

Approved for issue on behalf of the IECEx  
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:  
(for printed version)

Date:

11 May 2017

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:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
Australia





# IECEX Certificate of Conformity

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Date of Issue: 2017-05-11 Page 2 of 5  
Manufacturer: **Austdac Pty Ltd**  
Unit 1, 42 Carrington Road  
Castle Hill NSW 2154  
**Australia**

Additional Manufacturing location(s):

**Dongguan Hubbell Electrical Products Company Limited (DGHAL)**  
Xincheng Industrial Zone  
Hengli Town, Donggaun City  
523460, Guangdong  
China

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/TSA/ExTR15.0031/00

##### Quality Assessment Report:

AU/ITA/QAR15.0002/01 AU/ITA/QAR06.0001/11



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## Schedule

### EQUIPMENT:

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

The Austdac IS LED Light Type LLS2 is used to provide intrinsically safe area lighting for use in hazardous areas.

The LLS2 consists of a LED Light Head. The LED Light Head is manufactured from anti-static plastic and has 6 white LEDs and 6 coloured LEDs.

The LLS2 is powered from an intrinsically safe Power Supply. The Power Supply can be any separately certified Power Supply meeting the parameters required by the LLS2.

The LLS2 has connectors for connection to the intrinsically safe Power Supply. The connectors will be rated IP65 or better when mated or with a blanking cap fitted.

The LLS2 parameters will be;

$U_i = 12.6V$

$I_i = 3.3A$

$C_i = 3.3\mu F$

$L_i = 0\mu H$

The LLS2 is connected to the separately certified Power Supply via a cable terminated with a connector rated to IP65 or better and meeting creepage and clearances as defined in IEC 60079.11 Table 5.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

It is a condition of safe use that there is potential electrostatic charging hazard for Group IIB application. See User's Manual.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1:

Change of both Applicant address and Manufacturer address from  
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"

To

"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"



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**Additional Information:**

**Annex:**

[Annexe\\_IECEX TSA 15.0028-1.pdf](#)



# IECEX Certificate of Conformity Annexe

<b>Annexe for Certificate No.:</b>	<b>IECEX TSA 15.0028X</b>	<b>Issue No.:</b>	<b>1</b>
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## Drawing list pertaining to Issue 0 of this Certificate:

<b>Drawing/Document Number:</b>	<b>Page/s:</b>	<b>Title:</b>	<b>Revision Level:</b>	<b>Date: (yyyy-mm-dd)</b>
40-404-03	1	IS LED Light Type LLS2 PCB0347	02	2015-12-18
40-405-21	3	I.S. LED Light Type LLS2 PCB0347A Artwork Details	02	2015-12-04
40-406-14	2	IS LED Light Type LLS2 PCB0347 Bill of Materials	03	2015-12-04
40-409-14	2	IS LED Light Type LLS2 Bill of Materials	01	2015-08-14
40-417-15	1	IS LED Light Type LLS2 General Arrangement	01	2015-08-14
40-420-19	2	LED Lighting System 2 Type LLS2 System Diagram	01	2015-12-18
40-140-13	1	I.S. LED Light Type LLS2 Label Details	01	2015-12-18

## Condition of Certification pertaining to Issue 0 of this Certificate:

- It is a condition of safe use that there is potential electrostatic charging hazard for Group IIB application. See User's Manual.

## Variation permitted by Issue 1:

- Change of Applicant address and Manufacturer address from  
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"  
To  
"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"

## Conditions of Certification pertaining to Issue 1 of this Certificate:

No changes. The previous conditions still apply.

Certificate issued by:

	<b>TestSafe Australia</b> 919 Londonderry Road Londonderry NSW 2753 Australia
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