

### INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

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IECEx SIR 06.0026X

issue No.:1

History

Status:

Current

Issue No. 1 (2007-6-14) Issue No. 0 (2006-7-10)

Date of Issue:

2007-06-14

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Applicant:

**Hadar Lighting Limited** 

Factory 1

Jubilee Industrial Estate

Ashington

Northumberland NE63 8UG

**United Kingdom** 

Electrical Apparatus:

**HDL100S & HD100E Fluorescent Luminaires** 

Optional accessory:

Type of Protection:

Increased safety, encapsulation and dust

Marking:

Ex emb II T5 (-30°C to +32°C) Ex emb II T5 (-15°C to +32°C) Ex emb II T4 (-30°C to +55°C) Ex emb II T4 (-15°C to +55°C) Ex emb II T4 (-30°C to +53°C) Ex emb II T4 (-15°C to +53°C)

Ex emb II T3 (-20°C to +40°C) HDL109S Ex emb II T3 (-15°C to +40°C) HDL109E

Ex tD A21 IP 66/IP 67 T100°C

Approved for issue on behalf of the IECEx

Certification Body:

D R Stubbings

Position:

Certification Manager

Signature:

(for printed version)

Date:

2007-06-14.

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:

SIRA Certification Service South Hill Chislehurst Kent BR7 5EH United Kingdom





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Manufacturer:

**Hadar Lighting Limited** 

Factory 1

Jubilee Industrial Estate

Ashington

Northumberland NE63 8UG

**United Kingdom** 

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 manufacture'rs 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

Edition: 4.0

IEC 60079-18: 2004

Edition: 2.0

IEC 60079-7 : 2001

Edition: 3

IEC 61241-0: 2004

Edition: 1

IEC 61241-1: 2004

Edition: 1

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus

Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

Electrical apparatus for use in the presence of combustible dust - Part 0: General

requirements

Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by

enclosures "tD"

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:

GB/SIR/ExTR06.0067/00 GB/SIR/ExTR07.0051/00

Quality Assessment Report: GB/SIR/QAR06.0035/00



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### Schedule

### **EQUIPMENT:**

Equipment and systems covered by this certificate are as follows:

These Fluorescent Luminaires are available as either a standard version (HDL100S) and an emergency version incorporating an integral battery (HD100E). They comprise a lamp envelope, a control gear housing and an extruded aluminium reflector. A silicone gasket is used to seal the lamp envelope and the lid to the main body. The lamp envelope has a clear polycarbonate oval section tube, one end is fitted with a moulded end plate and the other is fitted with a moulded connection plate; both are secured with silicone adhesive. Two M6 screws secure the moulded connection plate to the control gear housing.

Four, bi-pin lampholders are mounted on a tube carrier enclosed within the lamp envelope, this carrier consists an aluminium conduit and moulded mounting plates. Electrical connection is achieved by connecting two of the lampholders and the neutral lead to Fa6 connection pins, thus, the Fa6 connection pins on the lamp carrier plate and on the control gear enclosure are connected together.

An isolating switch for the luminaire control gear is not required because replacement of the lamps is carried out by removing the lamp enclosure, this withdraws Fa6 connection pins from the lampholders fitted to the control gear enclosure, thus disconnecting the electrical supply to the lamps.

### CONDITIONS OF CERTIFICATION: YES as shown below:

clean the equipment safely and prevent Static charge build up.

		designed to maintain IP 66/67. The luminaire shall be installed such that the IP 66/67 rating will be maintained.
	2	Luminaires shall only be installed in areas of low mechanical risk when used below -20°C ambient.
ı	3	WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – Refer to the instruction on how to



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

IQ	SI	IP	-1	

HDL109S and HDL109E bulkhead versions added, with consequent update to Conditions of Certification and Conditions of Manufacture.

Annexe: 06.0026X\_Issue1\_Annexe.pdf