



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 17ATEX1174X** Issue: **0**

4 Equipment: **Safesite Series LED Area Light**

5 Applicant: **Dialight Corporation**

6 Address: 1501 Route 34 South Farmingdale, New Jersey 07727, USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-28:2015 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

Standard model, with an integral connecting cable



II 2GD
Ex db eb op is IIC T4 Gb
Ex tb op is IIIC T135°C Db
Ta = -40°C to +65°C.

Single Wirebox model

Ex db eb op is IIC T4 Gb
Ex tb op is IIIC T135°C Db
Ta = -40°C to +65°C.



II 2GD
Ex db eb op is IIC T5 Gb
Ex tb op is IIIC T100°C Db
Ta = -40°C to +42°C.

Ex db eb op is IIC T5 Gb
Ex tb op is IIIC T100°C Db
Ta = -40°C to +42°C.

Project Number 70107140

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

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SCHEDULE

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Issue 0**

13 DESCRIPTION OF EQUIPMENT

The Safesite series LED Area Light comprises a cast aluminium body and frame with a 12mm thick soda lime toughened glass window, the window being clamped between the frame and main body by sixteen, M8 X 30 mm, stainless steel button-head or cap-head type screws with a minimum property class A2-70.

Internal construction comprises a potted power supply, reflector and up to 207 LEDs dissipating a maximum 0.3 W each.

In the base of the enclosure there is a single entry; this is drilled to a maximum diameter of 26mm and is fitted with a suitably certified and dimensioned cable entry device, coded Ex db IIC Gb / Ex tb IIIC Db, accommodating a permanently attached cable that is supplied in various lengths to suit customer requirements. An aluminium, steel or stainless steel bracket for mounting purposes is fixed via the rear of the enclosure.

Alternatively, the light can be supplied with a component certified increased safety enclosure fitted with component certified increased safety terminals. This enclosure is mounted to the base of the light and is connected to the flameproof enclosure via an equipment certified line bushing.

The previously certified equipment and components are listed below:

Component / Equipment	ATEX Certificate
Rose Systemtechnik GmbH Enclosure	PTB 98ATEX3101U
Weidmuller Interface GmbH & Co Terminal Strips	SIRA 01ATEX3249U
Wago Kontakttechnik GmbH & Co Terminals	PTB 03ATEX1189U
Quintex GmbH Line bushing.	EPS 11ATEX1342X
Hummel AG Stopping Plug	DMT 03ATEXE049

Model Type	Model Number
Standard Type:	ALA7**2**B***N or HZA**2N
Single Wirebox Type:	ALA7**2**BJ**N or HZJA**2N

Type designation key: ALA7**2**B***N	
1 st Asterisk: Reflector;	A: 180
	B: 360
	W: Wide
2 nd Asterisk: CCT & CRI;	C: 5000K Ra 80
	N: 4000K Ra 80
	W: 2700K Ra 80
3 rd Asterisk: Typical lumen output;	2: 0,1-2K
	4: 3,1-4K
	5: 4,1-5K
	6: 5,1-6K
	7: 6,1-7K
4 th Asterisk: Controls;	9: 8,1-9K
	N: No Options
	D: Continuous dimming down to 5% (for future purposes)

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Type designation key: ALA7**2**B***N	
5 th Asterisk: Hardware/Cable Accessories;	J: Junction Box
	N: No Option
	T: 1.5' (0.5 meter) Power Cable
	U: 3' (1 meter) Power Cable
	V: 6' (1.8 meter) Power Cable
	W: 10' (3 meter) Power Cable
6 th Asterisk: Electrical Accessories;	A: Armoured Cable and Cable Gland.
	N: No Option/Standard
	T: Weidmuller 5 Position Terminal Block
	U: Wago 5 Position Terminal Block
7 th Asterisk: Coatings;	G: Gray (RAL 7040)
	K: ACP Black (RAL 9017)
	O: Orange (RAL 2001)
	W: White (RAL 9010)
	Y: Yellow (RAL 1018)
	Z: Bronze (RAL 7022)

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	27 October 2017	R70107140A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 When the equipment is coated with a paint finish, the enclosure is non-conducting and may generate an ignition capable level of electrostatic charge under certain extreme conditions. The user shall ensure that the equipment is not installed in a location where it might be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment shall be done only with a damp cloth.
- 15.2 External fasteners used for securing flameproof joints shall have a yield strength which is equal to or exceeding 450 N/mm².
- 15.3 When supplied with a component certified enclosure, the end user shall install a suitably certified gland with a seal or gasket, to maintain the IP rating of the equipment. The seal or gasket shall be suitable for a minimum service temperature range of -40°C to +75°C.
- 15.4 The equipment has flamepaths which differ from those in EN 60079-1 and are not intended for repair.
- 15.5 The equipment shall be installed such that the supply cable is protected from mechanical damage. The cable shall not be subjected to tension or torque. If the cable is to be terminated within an explosive atmosphere then the free end shall be terminated in a suitably certified termination facility.

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- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 Each enclosure shall be subjected to a routine overpressure test of 19.3 bar for at least 10 seconds as required by clause 16.1 of EN 60079-1. There shall be no permanent deformation or damage to the enclosure.
- 17.4 When supplied with an Increased Safety enclosure, the manufacturer shall conduct a routine dielectric strength test of 1865V r.m.s between Live and Neutral and Live and Neutral to Earth for at least 100 ms, in accordance with clause 7.1 of EN 60079-7. There shall be no breakdown.
- 17.5 The equipment covered by this certificate incorporates previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosive safety design of their products.

Certificate Annexe

Certificate Number: Sira 17ATEX1174X
Equipment: Safesite Series LED Area Light
Applicant: Dialight Corporation



Issue 0

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
8854HZA0001EX	1 of 6	14	10 Oct 17	Safesite Series LED Area Light

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