

	INTERNATIONA IEC Certification for rules and	AL ELECTROTECHNICAL COMMISSION on System for Explosive Atmospheres	 I
Certificate No.:	IECEx SIR 17.0037X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 1	Issue 0 (2017-10-27)
Date of Issue:	2019-03-29		
Applicant:	Dialight Corporation 1501 Route 34 South Farmingdale New Jersey 07727 United States of America		
Equipment:	Safesite Series LED Area Liç	lht	
Optional accessory:			
Type of Protection:	Flameproof, Increased Safet	y, Optical Isolation and Dust Protection by Enclosure	
Marking:	Standard model, with an inter Ex db 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	agral connecting cable Ex db 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 Ta = -40°C to +42°C.	
Approved for issue o Certification Body:	n behalf of the IECEx	N Jones	
Position:		Certification Manager	
Signature: (for printed version)			
Date:			
 This certificate and s This certificate is not The Status and auth 	schedule may only be reproduced in full transferable and remains the property enticity of this certificate may be verifie	of the issuing body. d by visiting www.iecex.com or use of this QR Code.	
Certificate issued	l by:		
SIRA Certificatio	on Service		

SIRA Certification Service CSA Group Unit 6, Hawarden Industrial Park Hawarden, Deeside, CH5 3US United Kingdom





Certificate No.:	IECEx SIR 17.0037X	Page 2 of 4
Date of issue:	2019-03-29	Issue No: 1
Manufacturer:	Sanmina SCI Systems de México Carretera Guadalajara-Chapala Km 1 Jalisco 45640 Mexico	5.5 No.29, Tlajomulco de Zuñiga
Additional manufacturing locations:	Dialight Corporation Penang Sdn Bhd 2593, Jalan Perusahaan Kawasan Perusahaan Perai 13600 Perai, Pulau Penang Malaysia	Dialight de México S. de R.L. de C.V. (Plant 1) C. Lirios S/N, Col. Carlos Pacheco Ensenada Baja California 22830 Mexico
This certificate is issu IEC Standard list belo found to comply with Rules, IECEx 02 and	ned as verification that a sample(s), repr ow and that the manufacturer's quality s the IECEx Quality system requirements Operational Documents as amended	resentative of production, was assessed and tested and found to comply with the system, relating to the Ex products covered by this certificate, was assessed and s.This certificate is granted subject to the conditions as set out in IECEx Scheme

STANDARDS :

The equipment 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28:2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with 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 Reports:

GB/SIR/ExTR17.0216/00

GB/SIR/ExTR19.0099/00

Quality Assessment Report:

GB/SIR/QAR11.0014/09



Certificate No.: IECEx SIR 17.0037X

Date of issue:

Page 3 of 4

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2019-03-29

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.

Refer to the Annexe for Approved components and the model nomenclature.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- i. 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 should 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.
- ii. External fasteners used for securing flameproof joints shall have a yield strength which is equal to or exceeding 450 N/mm².
- 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.
 The equipment has flamepaths which differ from those in IEC 60079-1 and are not intended for repair.
- v. 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.



Certificate No.: IECEx SIR 17.0037X

Date of issue:

2019-03-29

Page 4 of 4

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) This issue, Issue 1, recognises the following change; refer to the certificate annex to view a comprehensive history:

1. To record the addition of alternative manufacturing plants as follows:

Dialight de México S. de R.L. de C.V. (Plant 1)Lirios S/N, Col. Carlos PachecoEnsenada, Baja California 22830 Mexico

Dialight Corporation Penang Sdn Bhd 2593, Jalan Perusahaan, Kawasan Perusahaan Perai, 13600 Perai, Pulau Penang Malaysia

Annex:

IECEx SIR 17.0037X Issue 1 Annexe.pdf

Annexe to:

Apparatus:

IECEx SIR 17.0037X Issue 1

Applicant: Dialight Corporation



Safesite Series LED Area Light

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
	9: 8,1-9K
4 th Asterisk: Controls;	N: No Options
	D: Continuous dimming down to 5% (for future purposes)
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)

The previously certified equipment and components are listed below:

Component / Equipment	IEC Certificate	ATEX Certificate
Rose Systemtechnik GmbH Enclosure	IECEx PTB 08.0005U	PTB 98ATEX3101U
Weidmuller Interface GmbH & Co Terminal Strips	IECEx SIR 05.0037U	SIRA 01ATEX3249U
Wago Kontakttechnik GmbH & Co Terminals	IECEx PTB 05.0003U	PTB 03ATEX1189U
Quintex GmbH Line bushing.	IECEx EPS 11.0004X	EPS 11ATEX1342X
Hummel AG Stopping Plug	IECEx BVS 07.0021	DMT 03ATEXE049

Sira Certification Service

Unit 6 Hawarden Industrial Park,		
Haward	len, CH5 3US, United Kingdom	
Tel:	+44 (0) 1244 670900	
Fax:	+44 (0) 1244 681330	
Email:	ukinfo@csagroup.org	
Web:	www.csagroupuk.org	

Annexe to: IECEx SIR 17.0037X Issue 1 **Applicant: Dialight Corporation** Safesite Series LED Area Light **Apparatus:**



Conditions of Manufacture

- Each enclosure shall be subjected to a routine overpressure test of 19.3 bar for at least 10 seconds as i. required by clause 16.1 of IEC 60079-1. There shall be no permanent deformation or damage to the enclosure.
- ii. 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 IEC 60079-7. There shall be no breakdown.
- The equipment covered by this certificate incorporates previously certified devices, it is therefore the iii. 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.

Full Certificate Change History

Issue 1 – this Issue introduced the following changes:

- To record the addition of alternative manufacturing plants as follows: i.
 - 1. Dialight de México S. de R.L. de C.V. (Plant 1) C. Lirios S/N, Col. Carlos Pacheco Ensenada, Baja California 22830 Mexico
 - 2. Dialight Corporation Penang Sdn Bhd 2593, Jalan Perusahaan, Kawasan Perusahaan Perai, 13600 Perai, Pulau Penang Malaysia

Sira Certification Service

29 March 2019

Date: