1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 18ATEX1001X** Issue: **5**

4 Equipment: **Safesite LED High Bay Luminaire**

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 CSA Group Netherlands B.V., notified body number 2813 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 IEC 60079-0:2018	EN 60079-1:2014	EN 60079-7:2015 +A1:2018
EN 60079-28:2015	EN 60079-31:2014	

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:

Refer to certificate Schedule.

Signed: M Halliwell

Title: Senior Director of Operations

PRODUCTS
RvA C 652

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1001X
Issue 5

MARKING

Standard model

II 2GD
Ex db op is IIB T5 Gb
Ex tb op is IIIC T100°C Db
Ta = -40°C to +60°C

Integrated junction box and floodlight models

II 2GD
Ex db eb op is IIB T5 Gb
Ex tb op is IIIC T100°C Db
Ta = -40°C to +60°C

Standard models with alternate power supply:

Ex db IIB T5 Gb
Ex tb IIIC T100°C Db
Ta = -40°C to +60°C

Integral junction box and floodlight models with alternate power supply

Ex db eb IIB T5 Gb
Ex tb IIIC T100°C Db
Ta = -40°C to +60°C

Standard models with alternate power supply:

Ex db IIB+H_2 T5 Gb
Ex tb IIIC T100 °C Db
Ta = -40°C to +60°C

Integral junction box and floodlight models with alternate power supply

Ex db eb IIB+H_2 T5 Gb
Ex tb IIIC T100°C Db
Ta = -40°C to +60°C

13 **DESCRIPTION OF EQUIPMENT**

Model Type	Model Number
Standard Type:	HE****2******N
Integrated Junction Box:	HW****2******N
Safesite Floodlight	FS****2******N

Rating:

100 – 277 V AC; 50/60 Hz; Maximum 195 Watts, or
120 - 250 V DC; Maximum 195 Watts.

Type designation key:	
1st Asterisk: Certification;	For standard models or standard models with integral junction box: A: IECEx/ATEX Zone 1, 21 Group IIB (Retaining Ring Material: A360 ANSI/AA Grade)
	For standard models with alternate power supply or with integral junction box and alternate power supply: A: IECEx/ATEX Zone 1, 21 Group IIB (Retaining Ring Material: A360 ANSI/AA Grade) H: IECEx/ATEX Zone 1, 21 Group IIB+H_2 (Retaining Ring Material: 6061T6 IADS/ASTM Grade)
2nd Asterisk: Lens Material;	7: Glass, Clear
	8: Glass, Diffused
	G: Glass, Clear with G-Film Covering

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 18ATEX1001X**
Issue 5

Type designation key:	
3rd Asterisk: Reflector;	6: NEMA 6 Symmetric
	N: Narrow
	7: NEMA 7x6 Asymmetric
	W: Wide
	E: Oval
	M: Medium
	R: Round
4th Asterisk: CCT & CRI;	C: Cool White 5000K – 80 CRI
	N: Neutral White 4000K – 80 CRI
	W: Warm White 2700K – 80 CRI
5th Asterisk: Lumen Type;	A: 9,001 – 12,000 Lumens
	B: 12,001 – 15,000 Lumens
	C: 15,001 – 18,000 Lumens
	E: 22,001 – 26,000 Lumens
6th Asterisk: Controls;	D: Continuous dimming down to 5% (5 Conductor)
	N: No Options (3 Conductor)
	A: DALI
7th Asterisk: Mounting Options;	A: Swivel Bracket – Aluminium
	B: Swivel Bracket, Locking – 304 Stainless Steel
	C: Swivel Bracket, Locking – 316 Stainless Steel
	D: Forward Throw Bracket – 304 Stainless Steel
	E: Forward Throw Bracket – 316 Stainless Steel
	F: Swivel Bracket, Variable – 304 Stainless Steel
	G: Swivel Bracket, Variable – 316 Stainless Steel
	Q: Safety Retention Tabs with Swivel Bracket - Aluminium
	S: Safety Retention Tabs with Swivel Bracket, Locking – 304 Stainless Steel
	T: Safety Retention Tabs with Swivel Bracket, Locking – 316 Stainless Steel
	U: Safety Retention Tabs with Forward Throw Bracket – 304 Stainless Steel
	V: Safety Retention Tabs with Forward Throw Bracket – 316 Stainless Steel
	W: Safety Retention Tabs with Swivel Bracket, Variable – 316 Stainless Steel
	Y: Safety Retention Tabs with Swivel Bracket, Variable – 304 Stainless Steel
	Z: Transportable Bracket
8th Asterisk: Accessories 1, Power Cable;	2: 16′ (5 meter) power cable
	3: 23′ (7 meter) power cable
	4: 32′ (10 meter) power cable
	5: 39′ (12 meter) power cable

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 18ATEX1001X**
Issue 5

Type designation key:	
	6: 49′ (15 meter) power cable
	8: 59′ (18 meter) power cable
	9: 65′ (20 meter) power cable
	N: No Option
	T: 1.5′ (0.5 meter) Power Cable (only valid for part numbers beginning HW & FS)
	U: 3′ (1 meter) Power Cable (only valid for part numbers beginning HW & FS)
	V: 6′ (1.8 meter) Power Cable (only valid for part numbers beginning HW & FS)
	W: 10′ (3 meter) Power Cable
9th Asterisk: Accessories 2, Electrical Accessories;	M: M20 Entrance (Wago 862 terminals)
	N: Standard / No Option / M25 Entrance (Wago 862 terminals)
	W: M25 Entrance (Weidmuller MK terminals)
	Y: M25 Entrance (Wago 2004 terminals)
10th Asterisk: Coatings;	E: Green (RAL 6020)
	F: Gray (RAL 7005)
	G: Gray (RAL 7040)
	K: Black (RAL 9017), Advanced Corrosion Protection
	O: Orange (RAL 2001)
	W: White (RAL 9010)
	Y: Yellow (RAL 1018)

The Safesite LED High Bay Luminaire comprises a cast aluminium body and frame with a glass window. The window is clamped between the frame and main body by twelve, M8 X 35 mm, stainless steel, button-head or cap-head type screws with a minimum property class A2-70.

Internal construction comprises of two variations of a potted power supply, reflector and light engine with up to 702 LEDs. Variation 1 is the originally evaluated equipment and contains a hexagonally shaped power supply with options for dimming. Variation 2 contains a rectangular power supply with an option for dimming or DALI light controls.

In the base of the enclosure there is a single ¾″ – 14 NPT threaded entry which is fitted with a suitably certified and dimensioned cable entry device accommodating a permanently attached cable that is supplied in a minimum 3m length. An aluminium, steel or stainless-steel bracket for mounting purposes is fixed via the rear of the enclosure.

Alternatively, the luminaire can be supplied with an 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 alternative design has an optional stainless-steel stand and mounting bracket enabling the equipment to be portable.

The details for the component certified terminals and certified line bushing associated with the equipment are listed below:

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 18ATEX1001X**
Issue 5

Component / Equipment	ATEX Certificate
Weidmuller Interface GbmH & Co Terminal Strips	SIRA 01ATEX3249U
Wago Kontakttechnik GmbH & Co Terminals	PTB 03ATEX1189U
Wago Kontakttechnik GmbH	PTB 05ATEX1095U
Quintex GmbH Line bushing.	EPS 11ATEX1342X

Variation 1 - This variation introduced the following change:

i. Following appropriate assessment for the existing products to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012/A11:2013 was replaced by EN IEC 60079-0:2018.

Variation 2 - This variation introduced the following changes:

i. New variation with alternate power supply and light engine.
ii. New Model Option (6th Asterisk) "A" for DALI lighting control function.
iii. Various machining modifications for internal mounting of new parts.
iv. New drawing specific to the new equipment variation: 8854-HEA-0003-EX.
v. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012/A11:2013 and EN 60079-7:2015 were replaced by EN IEC 60079-0:2018 and EN IEC 60079-7:2015 +A1:2018.

Variation 3 - This variation introduced the following change:

i. To bring the drawings and instruction manual associated with IECEx SIR 18.0001X and Sira 18ATEX1001X in line with those associated with CSAE 21UKEX1404X.

Variation 4 - This variation introduced the following change:

i. Alternate housing option (8854-HEA-0003-EX series), ¾" NPT options for cable gland and line bushing.
ii. Alternate gasket profile and material (Wynca Tinyo TY26E9-60DT).
iii. Alternate sand blast shield material (TEIJIN LN-2250Y).
iv. Alternate power supply encapsulation material and configuration (EPIC S7527).
v. Alternate round optic for LED subassembly.
vi. Addition of Gas Group IIB+H2 requirements.
vii. Addition of IIB (with IIB retaining ring) overpressure test (4 x Reference Pressure for Gr. IIB).
viii. Update drawing 8854-HEA-0003-EX.
ix. Update Operating Instructions.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	08 November 2018	R70122900A	The release of the prime certificate.
1	24 July 2019	R70217949A	The introduction of Variation 1.

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 18ATEX1001X**
Issue 5

Issue	Date	Report number	Comment
2	15 October 2019	4078	Transfer of certificate Sira 18ATEX1001X from Sira Certification Service to CSA Group Netherlands B.V.
3	30 May 2022	R80106244A	The introduction of Variation 2.
4	11 May 2023	R80163230A	This Issue covers the following changes: • The Issue numbers in the Annexe were amended to correct a typographical error. • The introduction of Variation 3.
5	19 June 2025	R80233595A	The introduction of Variation 4.

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

15.1 When the fixed installation equipment is coated with a paint finish and marked for use in IIIC atmospheres, 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 When the fixed installation equipment is supplied with a film cover on the glass lens and marked for use in IIB, IIB+H_2 or IIIC atmospheres, 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.

15.3 When the equipment is supplied with an optional anti-static coated sand blast shield and marked for use in IIB or IIB+H_2 atmospheres, the user must follow the manufacturer's instructions with respect to the bonding connection and anti-static coating durability.

15.4 External fasteners used for securing flameproof joints shall have a minimum property class of A2-70.

15.5 The equipment has flamepaths which differ from those in EN 60079-1 and are not intended for repair.

15.6 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

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 CSA Group Netherlands B.V. certificates.

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

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 with "op is" marking shall be subjected to a routine overpressure test of 13.52 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 integrated junction box / Ex e enclosure, the manufacturer shall conduct a routine dielectric strength test of 2.61 kV DC 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 CSA of any modifications of the devices that may impinge upon the explosive safety design of their products.

17.6 The manufacturer shall not mark the equipment for IIIC atmospheres when supplied for portable applications.

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

Certificate Annexe

Certificate Number: **Sira 18ATEX1001X**

Equipment: **Safesite LED High Bay Luminaire**

Applicant: **Dialight Corporation**

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
8854-HEA-0002-EX	1 to 6	A	22 Oct 18	Highbay Certification

Issue 1: - No new drawings were introduced.

Issue 2: - No new drawings were introduced.

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
8854-HEA-0003-EX	1 to 6	A	09 May 22	ATEX EHB HIGHBAY CERTIFICATION PRINT

Issue 4

Drawing	Sheets	Rev.	Date (Stamp)	Title
8854-HEA-0002-EX	1 to 6	C	07 Dec 21	ATEX HIGHBAY CERTIFICATION

Issue 5

Drawing	Sheets	Rev.	Date (Stamp)	Title
8854-HEA-0003-EX	7	B	23 May 25	ATEX EHB HIGHBAY CERTIFICATION PRINT

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands