

United Kingdom

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx SIR 19.0068X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2023-02-03) Issue 1 (2021-04-27)
Date of Issue:	2023-05-09		Issue 0 (2020-04-27)
Applicant:	Dialight Corporation 1501 Route 34 South Farmingdale, NJ 07727 United States of America		
Equipment:	SafeSite GRP LED Linear		
Optional accessory:			
Type of Protection:	Increased Safety eb, Encapsulation mb, Opt	ical Isolation is and Dust Protection by Enclo	sure
Marking:	Ex eb mb op is IIC T5/T4 Gb Ex tb op is IIIC 95°C/T130°C Db		
	Ta = -20°C - +50°C for T5 and 95°C Ta = -40°C - +65°C for T4 and 130°C		
A		Makalla Hallinall	
Certification Body:	n behalf of the IECEx	Michelle Halliwell	
Position:		Director Operations, UK & Industrial Europe	
Signature: (for printed version)			
Date: (for printed version)			
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Certificate issued	by:		
CSA Group Te Unit 6, Hawarde Hawarden, Dees	n Industrial Park	(SP a	SA GROUP™

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Date of issue:	2023-05-09	Issue No:	3
Manufacturer:	Dialight Corporation 1501 Route 34 South Farmingdale, NJ 07727 United States of America		
Manufacturing locations:	Dialight Corporation Penang Sdn Bhd 1666, Lorong Perusahaan Maju 8 Pulau Pinang 13600 Perai Malaysia	DIALIGHT DE MEXICO, S.R.L. DE C.V. (Plant 1) C. Lirios S/N, Col. Carlos Pacheco Ensenada Baja California 22830 Mexico	General Luminaire (Kunshan) Limited NO. 1068 Fuchunjiang Road Kunshan Optoelectronics Indsutrial Park Jiangsu Province 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 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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
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 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
	This Cartificate doop not indicate compliance with safety and performance requirements

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/ExTR20.0083/00 GB/SIR/ExTR23.0094/00 GB/SIR/ExTR21.0070/00

GB/SIR/ExTR23.0033/00

Quality Assessment Report:

GB/SIR/QAR11.0014/13



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2023-05-09

Refer to the Annexe for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. The equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- 2. All cable entry holes shall be fitted with either an IECEx certified cable gland or an IECEx certified stopping plug that is suitable for the application. The type of cable, glands and stopping plugs shall have temperature ratings of at least 70°C.
- 3. The terminals shall only be fitted with wires that have cross sectional area falling within the following limitations: WAGO 2004-conductor series terminals: single-core, finely stranded and standard: min. 0.5 mm² to 6 mm² WAGO 862-conductor series terminals: single-core, finely stranded and standard: min. 0.5 mm² to 4 mm² Weidmüller Type MK6 series terminals: single-core, finely stranded and standard: min. 0.5 mm² to 6 mm² Others terminal: the conductor shall less than 4mm²
- 4. The tighten torque of the screws used to fix enclosure shall be equal to 5.5±0.5Nm.
- 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.
- 6. Use only replaceable battery pack 9300-GPL-0002-xx or 9300-GPL-0001-xx for P2 series or P4 series luminaire.
- 7. Clean the luminaire regularly to prevent dust accumulation.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 - this Issue introduced the following changes

2023-05-09

1. Added "L: INMETRO Zone 1, 21" to character 3 of the Model Designation.

Issue 2 – this Issue introduced the following changes:

1. Introduction of an alternative cell to existing battery pack 9300-GPL-0002-xx and 9300-GPL-0001-xx

Issue 3 – this Issue introduced the following changes:

1. To align the revision of the drawing 8854GPL000400 in IECEx and ATEX certificates same as in the UKCA certificate.

Annex:

IECEx SIR 19.0068X Annexe Issue 3_1.pdf

Annexe to: IECEx SIR 19.0068X Issue 3

Applicant: Dialight Corporation

Apparatus: SafeSite GRP LED Linear



Equipment:

The following certified stopping plugs are installed in the two side walls of terminal box for installation:

Terminal Blocks			
Manufacturer	Туре	Certificate No.	Code
WAGO Kontakttechnik GmbH	WAGO 4 conductor device connector type 862-****/999- 950	IECEX PTB 05.0003U PTB	Ex e IIC Gb Ex e I Mb
WAGO Kontakttechnik GmbH	WAGO type PE & Through terminal blocks type TOP JOB S2004-*** and type TOP JOB S 2004- ***7 series	IECEX PTB 05.0033U	Ex e IIC Gb Ex e I Mb
Weidmüller Interface GmbH	Terminals MK/BK Series	IECEx TUR 18.00319U	Ex eb IIC Gb

The following certified stopping plug are installed at two side walls of terminal box for installation:

Stopping Plug			
Manufacturer	Туре	Certificate No.	Code
Hawke International	Type 375 Range of	IECEx BAS 12.0065X	Ex eb IIC Gb
	Stopping plugs		Ex tb IIIC Db
			IP66/IP67

A driver with protection type Ex eb and mb is installed inside the terminal box housing which has been certified separately as Ex component, the detail information of certification listed as below:

Driver	Туре	Certificate No.	Code
Dialight Corporation	8850GPL-1*****	IECEx SIR 19.0072U	Ex eb mb IIC Gb

The Ni-MH battery packs are an optional part which is installed inside terminal box housing. The specification of battery packs is 7.2Vdc/6Ah and 7.2Vdc/4Ah.

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Applicant: Dialight Corporation

Apparatus: SafeSite GRP LED Linear



The guard is an alternative, and the guard is secured by M6 screw with 5.5 ± 0.5 Nm for luminaire cover protection, the guard can be removed with a screw driver only.

The IP 66/67 rating was independently tested in accordance with IEC 60529

The luminaire can be mounted via hook, loop, chain mount or mounting bracket with different installation angles "0°, 30°, 45°, 60° and 90°"

Rating:

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Voltage: 100Vac – 277Vac ,50Hz/60Hz;
230Vac/240Vac 50Hz;
110Vac/120Vac 60Hz;
120Vdc – 250Vdc
Max. Power:
P2********* series: 29W Max.
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P2 series: 29W Max. P4********* series: 51W Max.

Ambient temperature:

Туре	Ambient Temperature
P2*******F,	-20°C to 50°C
P2******G,	
P4******F or	
P4******G	
(with battery pack)	
Other types (without battery	-40°C to 65°C
pack)	

Temperature Class:

Ambient Temperature	T-code
-20°C to 50°C	T5 and T95°C
-40°C to 65°C	T4 and T130°C

Model designation of P2********* and P4******** are as follows:

Model	Type designation key	Designator & application
P2**********	1st and 2nd character:	P2: Polymeric Universal Linear
And	Product Series	P4: Polymeric Universal Linear
P4**********	3rd character:	A: IECEx Zone 1, 21
	Certification	L: INMETRO Zone 1, 21
	4th character:	8: Flat Glass - Diffused Replaceable
	Lens Options	B: Bubble Polycarbonate Diffused Replacable
	5th character:	M: Medium (TIR)
	Optics	
	6th character:	C: Cool White 5000K - 80 CRI
	CCT & CRI	N: Neutral White 4000K - 80 CRI
		W: Warm White 2700K - 80 CRI
		G: Green
		A: Amber

Annexe to: IECEx SIR 19.0068X Issue 3

Applicant: Dialight Corporation



Apparatus: SafeSite GRP LED Linear

Model	Type designation key	Designator & application
	7th character:	1: 110/120 VAC
	Operating Voltage	2: 100 - 277 VAC/120-250 VDC
		G: 230/240 VAC
	8th character:	3: 2.1 - 3K (P2 or P4 series)
	Lumen Output Range	6: 5.1 - 6K (P4 series only)
	9th character:	A: DALI
	Controls	C: IIoT Compatibile
		D: Dimming (0-10V)
		N: No Options
	10th character:	5: M25 - 2 Entries Each Side
	Mounting Options	2: M20 - 2 Entries Each Side
	11th character:	N: Standard (4mm ² terminals)
	Hardware/Cable	6: Terminal Block - Screw Down (6mm ² terminals)
	Options	4: Terminal Block - Push Down (4mm ² terminals)
		D: Terminal Block - Push Down (6mm ² terminals) Din Rail
	12th character:	W: Standard (three Phase Thru)
	Electrical Options	
	13th character:	G: Grey
	Finish	
	14th character:	N: Standard
	Battery Backup	F: Emergency, 90 min.
		G: Emergency, 180 min