



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 TPS 26.0033X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-07-21

Applicant: **Dialight Corporation**
1501 Route 34 South
Farmingdale
New Jersey, 07727
United States of America

Equipment: **LED Explosion-proof Light, N*A*******

Optional accessory:

Type of Protection: **Flameproof enclosure "db", Increased safety "eb", Encapsulation "mb", Protection by enclosure "tb"**

Marking: Ex db eb mb IIC T6...T5 Gb
Ex tb IIC T80°C...T95°C Db or
Ex eb mb IIC T6...T5 Gb
Ex tb IIC T80°C...T95°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Xia Jiayan

Position:

Technical Certifier

Signature:
(for printed version)

Date:
(for printed version)

2026-07-01

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Certificate issued by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



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Date of issue: 2026-07-21

Issue No: 0

Manufacturer: **Dialight Corporation**
1501 Route 34
South Farmingdale
New Jersey 07727
United States of America

Manufacturing locations: **Dialight Corporation**
1501 Route 34
South Farmingdale
New Jersey 07727
United States of America

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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Report:

[DE/TPS/ExTR26.0024/00](#)

Quality Assessment Report:

[GB/SIR/QAR11.0014/16](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The LED explosion-proof light is intended to be used in Zone 1, Zone 2, Zone 21 and Zone 22. The protection types of the equipment are "db", "eb", "mb" and "tb".

The protection type for the LED light board is "mb", the driver is "db" or "mb", the emergency driver is "mb" and light enclosure is "eb" and "tb". The LED explosion-proof light consists of a plastic cover, fiber reinforced plastic body, and the LED sources are encapsulated by K-5312T compound on LED light board. The plastic cover is secured with the fiber reinforce plastic body by the special switch axle clamping jaw, the LED source board are fixed by M3 screw.

There are two flame-proof enclosures in the light, and the driver circuit is in a flame-proof enclosure as a driver, the battery protection circuit and battery pack are located in another flame-proof enclosure. The battery pack is made of three Li-ion cells in series. And after the assembly battery pack, driver circuit and protection circuit, the potting compound BZ-3900A/B is filled to remaining volume of flame-proof enclosure of driver.

Alternatively, the driver circuit, protection circuit and battery pack and the emergency driver are separately certified as Ex db, or the driver circuit is separately certified as Ex mb.

The Ex mb certified driver with an emergency function should also include a Ni-Cd battery and a certified emergency LED driver.

Threaded entry holes with thread forms M16x1.5, M20x1.5, M25x1.5, 3/4" NPT are provided on the enclosure. The cable glands and blanking plugs which are in conformity with IECEx certificate of conformity are installed at the entry holes.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall not be installed in areas where external environmental conditions may cause electrostatic charge accumulation on its surfaces. In addition, the equipment shall only be wiped with a damp cloth.
2. The cable shall be selected and installed by the end user. The cable's temperature rating shall be at least 105°C when used in ambient temperatures exceeding 70°C.
3. The battery packs are not intended to be replaced by the end users. The enclosure protected by different type of protection requires the installation of dedicated battery packs: model "18650-2000mAh" for the flameproof enclosure and model "KRH26/51(C)3000T" for the increased safety enclosure.
4. Clean the luminaire regularly to prevent dust accumulation.
5. The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.

Annex:

[Annex to CoC IECEx TPS 26.0033X.pdf](#)



IECEX Certificate of Conformity



Product Service

Annex to certificate: IECEx TPS 26.0033X Issue No: 0
Applicant: Dialight Corporation
 1501 Route 34, South Farmingdale, New Jersey 07727
 United States of America
Apparatus: LED Explosion-proof Light
Type(s): N*A*****

Model designation:

N	*	A	*	*	*	*	*	*	*
1	2	3	4	5	6	7	8	9	10

1	-	Product code
2	-	Product Length: 2, 4
3	-	Certification: Zone 1
4	-	Different appearances of Lens Cover: 4, 5, 6 4= Polycarb Clear 5= Polycarb striped 6= Polycarb Frosted
5	-	Color temperature: C, N, W or V C = 5000K, N = 4000K, W=2700K, V=2000K
6	-	Operating Voltage: 2, 8, 7 2=100-277 V AC, 8=200-277 V AC, 7=125-270 V DC
7	-	Lumen Type: 3 = 2.1K-3K (20W), 5 = 4.1K-5K (30W), 6 = 5.1K-6K(40W), 8 = 7.1K -8K (50W), 9 = 8.1K-9K (60W), B = 10.1K-11K (70W), C = 11.1K-12K (80W), D= 12.1K-13K (90W), F = 14.1K-15K (100W)
8	-	Dimming option: D, A, N D = 0-10V Dimming, A = Dali Dimming, N= Non-Dimming
9	-	Mounting Means: N, R or P N = Ceiling or wall mount, R = Rope Mount, P = Pole mount
10	-	Emergency: N, F F: Emergency function, N: No Emergency function

Technical data:

Model	Maximum Rated power	Voltage	Certified LED driver model	Certified Emergency driver	Ambient Temp.	Temp. Class (Gas/Dust)
N2A*****N	N2A:35W	100-277 V AC	/	/	-40°C to +45°C -40°C to +60°C	T6 / T80°C T5 / T95°C
	N2A:40W	100-277 V AC	DR-40W-db-*	/	-40°C to +65°C	T5 / T95°C
	N2A:50W	100-277 V AC or 125-270 V DC	MU060H105AQ	/	-40°C to +55°C	
	N2A:60W	200-277 VAC	EX-60W-1A2-B	/	-40°C to +50°C	
	N2A:30W	200-277 VAC	EX-60W-1A2-B	/	-40°C to +60°C	T6 / T80°C
	N2A:30W	200-277 VAC	EX-60W-1A2-B	/	-40°C to +70°C	T5 / T95°C
	N2A:50W	100-277 V AC	DR-30W-db-*	/	-40°C to +55°C	
	N2A:20W	100-277 V AC or 125-270 V DC	MU060H105AQ	/	-40°C to +70°C	
	N2A:30W	125-270 V DC	MU060H105AQ	/	-40°C to +55°C -40°C to +65°C	T6 / T80°C T5 / T95°C



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Product Service

Annex to certificate: IECEx TPS 26.0033X Issue No: 0
Applicant: Dialight Corporation
 1501 Route 34, South Farmingdale, New Jersey 07727
 United States of America
Apparatus: LED Explosion-proof Light
Type(s): N*A*****

Model	Maximum Rated power	Voltage	Certified LED driver model	Certified Emergency driver	Ambient Temp.	Temp. Class (Gas/Dust)
	N2A:40W		MU060H105AQ	/	-40°C to +60°C	
	N4A:55W	100-277 V AC	/	/	-40°C to +45°C -40°C to +60°C	T6 / T80°C T5 / T95°C
N4A*****N	N4A:80W	100-277 V AC	DR-40W-db-* (2 pcs)	/	-40°C to +55°C	T5 / T95°C
	N4A:60W	100-277 V AC	DR-30W-db-* (2 pcs)	/	-40°C to +65°C	
	N4A:100W	100-277 V AC or 125-270 V DC	MU100H120AQ	/	-40°C to +50°C	
	N4A:100W		MU163H150AQ	/	-40°C to +55°C	
	N4A:75W		MU100H120AQ	/	-40°C to +55°C	T6 / T80°C
	N4A:50W		MU100H120AQ	/	-40°C to +60°C	
	N4A:60W		MU100H120AQ	/	-40°C to +60°C	T5 / T95°C
	N4A:20W		MU035H105AQ	/	-40°C to +70°C	
	N4A:30W		MU035H105AQ	/	-40°C to +65°C	T6 / T80°C
	N4A:90W	200-277 V AC	EX-100W-1A9-B	/	-40°C to +50°C	
	N4A:80W		EX-100W-1A9-B	/	-40°C to +55°C	T5 / T95°C
	N4A:50W		EX-100W-1A9-B	/	-40°C to +65°C	
	N4A:60W		EX-100W-1A9-B	/	-40°C to +60°C	T6 / T80°C
	N4A:40W	100-277 V AC	DR-40W-db-*	/	-40°C to +55°C	
	N4A:50W		DR-50W-db-*	/	-40°C to +60°C	T5 / T95°C
	N4A:60W		DR-30W-db-* (2 pcs)	/	-40°C to +55°C	T6 / T80°C
	N4A:100W		DR-50W-db-* (2 pcs)	/	-40°C to +55°C	T5 / T95°C
N2A*****F	N2A:35W		/	/	-10°C to +45°C -10°C to +60°C	T6 / T80°C T5 / T95°C
	N2A:20W		DR-20W-db-*	/	-10°C to +60°C	T6 / T80°C
	N2A:40W		DR-40W-db-*	/	-10°C to +65°C	
	N2A:50W	100-277 V AC or 125-270 V DC	MU060H105AQ	MU...H...AQ_ MB/EM	-5°C to +55°C	T5 / T95°C
	N2A:40W		MU060H105AQ	MU...H...AQ_ MB/EM	-5°C to +55°C	T6 / T80°C
N4A*****F	N4A:55W	100-277 V AC	/	/	-10°C to +45°C -10°C to +60°C	T6 / T80°C T5 / T95°C
	N4A:75W	100-277 V AC or 125-270 V DC	MU100H120AQ	MU...H...AQ_ MB/EM	-5°C to +45°C	T6 / T80°C
	N4A:60W		MU060H105AQ	MU...H...AQ_ MB/EM	-5°C to +55°C	
	N4A:100W		MU100H120AQ	MU...H...AQ_ MB/EM	-5°C to +40°C	
	N4A:40W	100-277 V AC	DR-40W-db-*	/	-10°C to +60°C	T5 / T95°C
	N4A:60W		DR-30W-db-* (2 pcs)	/	-10°C to +60°C	

Model difference:

The Explosion-proof Light is classified into N2A and N4A series based on external length. The enclosure construction is identical, but the power, size and LED source amount are different.

Warning Label:



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Product Service

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1501 Route 34, South Farmingdale, New Jersey 07727
United States of America
Apparatus: LED Explosion-proof Light
Type(s): N*A*****

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
WARNING - DO NOT OPEN WHEN ENERGIZED
WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

Installation instruction:

See installation instructions provided by manufacturer.

Routine tests:

Routine tests are required on each piece (100%) during production control:

1/ The encapsulated parts of the LED light board shall be subjected to a visual inspection. No visible damage of the compound shall be evident, such as cracks, exposure of the encapsulated parts, flaking, impermissible shrinkage, discoloration, swelling decomposition or softening, as required by by Clause 9.1 of IEC 60079-18:2017.

2/ The LED light board of equipment shall be subjected to a dielectric strength test with 500 Vac for least 60 s without dielectric breakdown occurring between input terminal of LED light board and the earthing. Alternatively, the test may be carried out at 600 Vac for at least 100 ms, 700 Vdc for at least 60 s or 840 Vdc for at least 100 ms. Between input terminal of LED light board and the earthing. The testing must follow Clause 9.2 of IEC 60079-18:2017 and Clause 7.1 of IEC 60079-7:2017.

No flashover or electric breakdown occurring.

3/ The equipment shall be subjected to a dielectric strength test at 1554 V AC for at least 60 s without dielectric breakdown occurring between input terminal of luminaire and the earthing, and between circuits and the non-metallic surface of the equipment (either a non-metallic enclosure or the surface of the compound). Alternatively, the test may be carried out at 1865 Vac for at least 100 ms, 2198 Vdc for at least 60 s or 2638 Vdc for at least 100 ms. Between input terminal of luminaire and the earthing, and between circuits and the non-metallic surface of the equipment (either a non-metallic enclosure or the surface of the compound). The testing must follow clause 7.1 of IEC 60079-7:2017.

4/ The flame proof enclosure of the driver chamber shall be subject to an overpressure test of 1.74 MPa with min. duration of 12 s. The enclosure shall not have permanent deformation and damage.