

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**



(3) EU-Type Examination Certificate Number:

TPS 26 ATEX 138104 0001 X Rev. 00

- (4) Equipment: LED Explosion-proof Light - Type: N*A*****
- (5) Manufacturer: Dialight Corporation
- (6) Address: 1501 Route 34 South, Farmingdale New Jersey 07727, USA
- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) TÜV SÜD Product Service GmbH, Notified Body no. 0123, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 with no. 88.500.26.361.01
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017 EN IEC 60079-31:2024

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

	II 2 GD	Ex db eb mb IIC T6...T5 Gb Ex tb IIIC T80°C...T95°C Db
	II 2 GD	Ex eb mb IIC T6...T5 Gb Ex tb IIIC T80°C...T95°C Db See Tamb in technical rating

Certification Body,

München, 21.07.2026

Xia Jiayan

Xia Jiayuan

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EU-Type Examination Certificate no.

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Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue of certificate.	88.500.26.361.01	21.07.2026

(15) Description of equipment:

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 ATEX 2014/34/EU are installed at the entry holes.

See the user instructions for further details.

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

Schedule

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Product Service

		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

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.

Technical data:

See Annex

Warning label:

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 the manufacturer and part of this certification. See also (17) Special conditions for safe use.

(16) Test report(s): 88.500.26.361.01

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 Clause 9.1 of EN 60079-18:2015+A1:2017.

2/ The LED light board of equipment shall be subjected to a dielectric strength test with 500 V AC for at 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 V AC for at least 100 ms, 700 V DC for at least 60 s or 840 V DC for at least 100 ms. Between

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Doc Name: Temp-EX5A5-TPS 26 Type Cert Rev. 00

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input terminal of LED light board and the earthing. The testing must follow Clause 9.2 of EN 60079-18:2015+A1:2017 and Clause 7.1 of EN IEC 60079-7:2015+A1:2018.

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 V AC for at least 100 ms, 2198 V DC for at least 60 s or 2638 V DC 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 EN IEC 60079-7:2015+A1:2018.

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.

Document List:

File no.:	Description:	Pages:	Rev:	Date:
DL-NAME-001	Nameplate	3	A1	2026-05-06
DA20260506A	Instruction Manual	11	V1.0	2025-05-06
9100150005200_A	EU declaration of conformity (Draft)	5	A	2026-06-26

A copy of the full documentation is kept confidentially at TÜV SÜD.

(17)

Special conditions for safe use:

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.

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Doc Name: Temp EX5A01 TPS EU Type Cert Rev 04

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(18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

The standard EN IEC 60079-31:2024 has been applied in full to demonstrate and ensure conformity with the Essential Health and Safety Requirements (EHSR) set out in Annex II of the ATEX Directive 2014/34/EU.

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Product Service

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Annex:

Technical rating:

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	
	N2A:50W	100-277 V AC or 125-270 V DC	MU060H105AQ	/	-40°C to +55°C	T5 / T95°C
	N2A:60W	200-277 V AC	EX-60W-1A2-B	/	-40°C to +50°C	
	N2A:30W	200-277 V AC	EX-60W-1A2-B	/	-40°C to +60°C	T6 / T80°C
	N2A:30W	200-277 V AC	EX-60W-1A2-B	/	-40°C to +70°C	
	N2A:50W	100-277 V AC	DR-30W-db-*	/	-40°C to +55°C	T5 / T95°C
	N2A:20W	100-277 V AC or 125-270 V DC	MU060H105AQ	/	-40°C to +70°C	
	N2A:30W		MU060H105AQ	/	-40°C to +55°C -40°C to +65°C	T6 / T80°C T5 / T95°C
	N2A:40W		MU060H105AQ	/	-40°C to +60°C	
N4A*****N	N4A:55W	100-277 V AC	/	/	-40°C to +45°C -40°C to +60°C	T6 / T80°C T5 / T95°C
	N4A:80W	100-277 V AC	DR-40W-db- (2 pcs)	/	-40°C to +55°C	
	N4A:60W	100-277 V AC	DR-30W-db- (2 pcs)	/	-40°C to +65°C	T5 / T95°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	
	N4A:50W		MU100H120AQ	/	-40°C to +60°C	T6 / T80°C
	N4A:60W		MU100H120AQ	/	-40°C to +60°C	
	N4A:20W		MU035H105AQ	/	-40°C to +70°C	T5 / T95°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	T5 / T95°C
	N4A:50W		DR-50W-db-*	/	-40°C to +60°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	100-277 V AC or 125-270 V DC	/	/	-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	MU100H120AQ	MU...H...AQ _MB/EM	-5°C to +45°C	T6 / T80°C

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Model	Maximum Rated power	Voltage	Certified LED driver model	Certified Emergency driver	Ambient Temp.	Temp. Class (Gas/Dust)
	N4A:60W	125-270 V DC	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	

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