


[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

[3] EU – Type Examination Certificate Number ACE25ATEX016X Rev00
[4] Product Explosion-Proof Strip Light
[5] Manufacturer Tongxin Intelligent Technology (Tianjin)
Co.,Ltd.
[6] Address Room 404, Block 1, Chuangzhan Building,
334 Animation Middle Road, Sino-
Singapore Tianjin Eco-city, Binhai New
Area, Tianjin 300450

- [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] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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 Report nº. EX_EXD009_25_24-2119, EX_EXE006_25_24-2119, EX_EXM004_25_24-2119, EX_EXT004_25_24-2119
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-1:2014: Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures ‘d’
EN 60079-7: 2015/A1:2018: Explosive atmospheres - Part 7: Equipment protection by increased safety ‘e’
EN 60079- 18:2015/A1:2017: Explosive atmospheres - Part 18: Equipment protection by encapsulation ‘m’
EN 60079-31:2014: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure ‘t’
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of 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.

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[12] The marking of the equipment or protective system shall include the following:

 II 2G Ex db eb mb IIC T6 Gb, II 2D Ex tb IIIC T80°C Db
II 2G Ex eb mb IIC T6 Gb, II 2D Ex tb IIIC T80°C Db
II 2G Ex db eb mb[ib] IIC T6 Gb, II 2D Ex tb IIIC T80°C Db



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Date: 26/05/2025



**Advanced Consulting and Engineering
Iberia SL**

Notified Body No NB3024
Matteo Marconi, CEO

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[13] **SCHEDULE**

[14] EU-Type Examination Certificate No: ACE25ATEX016X Rev00

[15] Description of equipment

NC111-AF Explosion-Proof Strip Light is of type “db”, “eb”, “mb” and “tb”. The enclosure of the product protected by “eb” is composed of two end caps , a main housing made of aluminum alloy and a PC outer housing. An LED module protected by “mb”, a flameproof assembly protected by “db”, certified LED Driver and terminals are mounted inside the enclosure. There are four entries on the end caps equipped with two certified cable glands and two certified stopping plugs.

NC110-AF Explosion-Proof Strip Light is of type “eb”, “mb” and “tb”. The enclosure of the product protected by “eb” is composed of two end caps, a main housing made of aluminum alloy and a PC outer housing. A LED module protected by “mb”, certified LED Driver protected by “mb” and terminals protected by “eb” are mounted inside the enclosure. There are four entries on the end caps equipped with two certified cable glands and two certified stopping plugs.

NC111-AE Explosion-Proof Strip Light is of type “db”, “eb”, “ib”, “mb” and “tb”. The enclosure of the product protected by “eb” is composed of two end caps , a main housing made of aluminum alloy and a PC outer housing. Two batteries protected by “eb”, an LED module protected by “mb”, a flameproof assembly protected by “db”, certified LED Driver protected by “mb”, LED emergency driver protected by “mb” and “ib” and terminals protected by “eb” are mounted inside the enclosure. There are four entries on the end caps equipped with two certified cable glands and two certified stopping plugs.

Product model	Rated voltage (V)	Rated power (W)	Ex marking
NC111-AF	AC100~242	30, 50	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db
NC110-AF			Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db
NC111-AE			Ex db eb mb [ib] IIC T6 Gb Ex tb IIIC T80°C Db

I.S. Output parameters for NC111-AE equipment:

Um: 300 V d.c. or 277 V a.c. , Uo: 12.6 V, Io: 74mA, Po: 233mW, Co: 1.15uF, Lo: 8mH.

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[13] **SCHEDULE**

[14] EU – Type Examination Certificate No: ACE25ATEX016X Rev00

[16] Test documents are listed in the test report nº
EX_EXD009_25_24-2119, EX_EXE006_25_24-2119, EX_EXM004_25_24-2119, EX_EXT004_25_24-2119

[17] Special conditions for safe use

1. The flameproof joint cannot be repaired.
2. The Explosion-Proof Strip Light is intended to be mounted according to the mounting direction specified in the manual.
3. The enclosure with a coating of polyester powder must not be used in areas affected by charge producing processes, mechanical friction, separation processed electron emission and pneumatically conveyed dust.
4. The Explosion-Proof Strip Light has to be connected to an electrical power supply with a maximum prospective short-circuit current of 1500A.
5. The battery packs can only be replaced by Tongxin, other than users.

[18] Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

[19] Documents and technical datasheets:

Title	Object	Revision	Date
User Manual	S/TX.001-2024	A/0	2024.10.30
Flameproof cavity through the line casting sealing technology	G/TX.002-2024	A/0	2024.10.30
The LED module encapsulation process	G/TX.001-2024	A/0	2024.10.30
Fault analysis of LED module	F/TX.001-2024	A/0	2024.10.30
NC111-AF Final assembly drawing	B001-2024-MMJY-601	V0	2024.10.30
NC110-AF Final assembly drawing	B001-2024-MMJY-602	V0	2024.10.30
NC111-AE Final assembly drawing	B001-2024-MMJY-603	V0	2024.10.30
End cap	B001-2024-MMJY-689	V0	2024.10.30
PC out housing	B001-2024-MMJY-690	V0	2024.10.30
Main housing	B001-2024-MMJY-691	V0	2024.10.30
Light source mounting plate	B001-2024-MMJY-693	V0	2024.10.30
Component mounting plate	B001-2024-MMJY-694	V0	2024.10.30
LED module	B001-2024-MMJY-695	V0	2024.10.30

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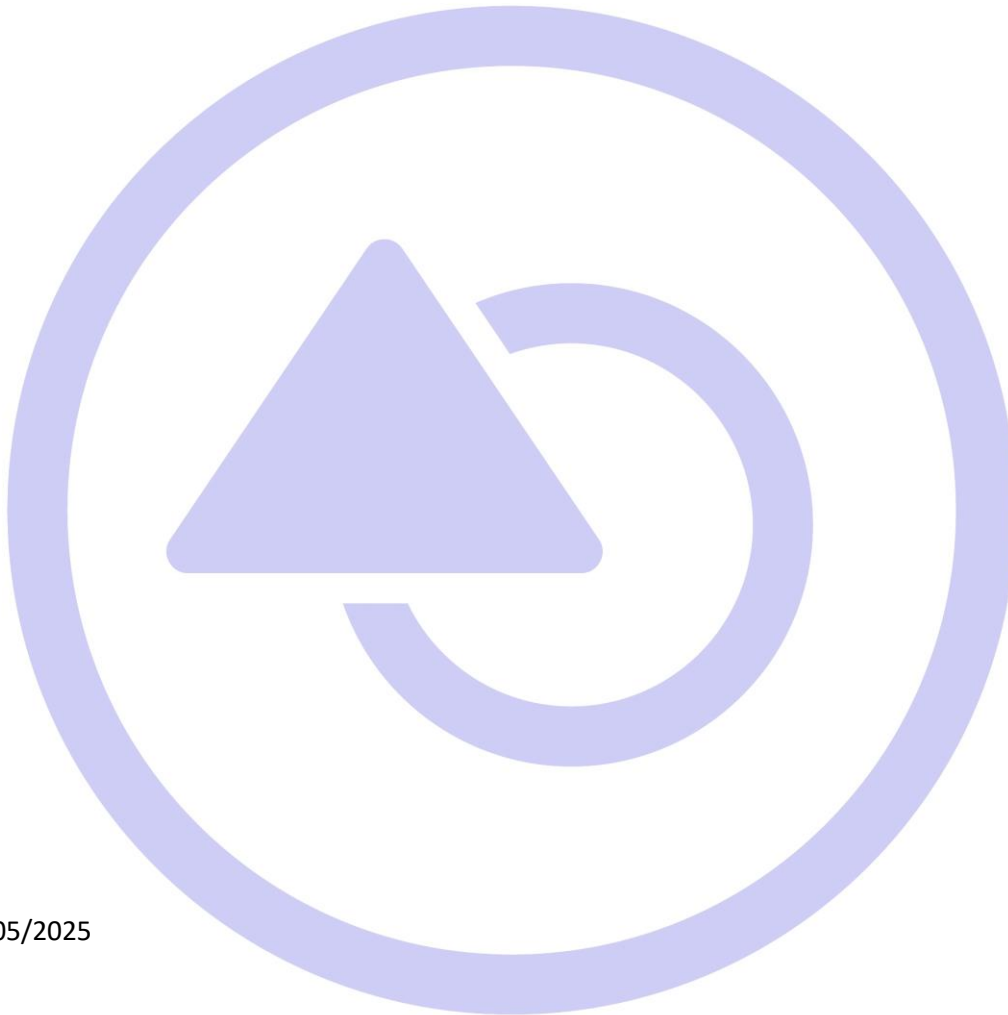
End cap sealing gasket	B001-2024-MMJY-701	V0	2024.10.30
Nameplate	B001-2024-MMJY-702	V0	2024.10.30
Module housing	B001-2024-MMJY-703	V0	2024.10.30
Module cover	B001-2024-MMJY-704	V0	2024.10.30
Nameplate	B001-2024-MMJY-727	V0	2024.10.30
Led Encapsulation Drawing	B001-2024-MMJY-734	V0	2024.10.30
Flameproof assembly	B001-2024-MMJY-735	V0	2024.10.30
Flameproof assembly 2	B001-2024-MMJY-739	V0	2024.10.30
Module housing 2	B001-2024-MMJY-740	V0	2024.10.30
Component mounting plate 2	B001-2024-MMJY-736	V0	2024.10.30
LED module electrical schematic	B001-2024-MMJY-738	V0	2024.10.30
LED module PCB layout	B001-2024-MMJY-737	V0	2024.10.30
Nameplate	B001-2024-MMJY-741	V0	2024.10.30
Battery protection circuit electrical schematic	B001-2024-MMJY-742	V0	2024.10.30
Battery protection circuit PCB layout	B001-2024-MMJY-743	V0	2024.10.30
CABLE GLAND TYPE ADE ATEX Certificate	INERIS 12ATEX0032X	6	2020.12.18
Plugs ATEX Certificate	ITS16ATEX101335X R.1	1	2020.12.4
Terminals MK/BK series ATEX Certificate	TUV 18 ATEX 8209 U	2	2019.8.28
LED emergency Driver ATEX Certificate	TPS 24 ATEX 117594 0047 U	0	2024.12.5
Driver ATEX Certificate	TPS 23 ATEX 117594 0013 U	0	2023.8.12
IECEX report	Report No: CN/PCET/ExTR24.0043/00 Lab: Supervision & Test Center of Ex-products of China Petroleum & Chemical Industry (PCEC)	0	2025.3.20

The documents above-mentioned are strictly confidential and they are of only use of authorities.
A copy of the documents are saved by A.C.&E. Iberia S.L.

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[20] Declaration of conformity History

Number of certificate	Rev.	Comments	Date
ACE25ATEX016X	00	First emission	26/05/2025



Date: 26/05/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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