



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 CQM 26.0027X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-04-07

Applicant: **NATIONAL LIGHTING COMPANY LTD**
Street 77, 2nd Industrial City
Dammam 31411
Saudi Arabia

Equipment: **Electrical box and junction box typed NLC EXP-JBA-***

Optional accessory:

Type of Protection: **Flameproof enclosure "db" and dust ignition protection "tb"**

Marking: NLC EXP-JBA series electrical box
Ex db IIB T6 Gb
Ex db IIB+H₂ T6 Gb (only for shape code, A, B)
Ex tb IIIC T80°C Db IP66
NLC EXP-JBA series junction box
Ex db IIB T6...T4 Gb
Ex db IIB+H₂ T6...T4 Gb (only for shape code, A, B)
Ex tb IIIC T80°C...T130°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

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No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Manufacturer: **NATIONAL LIGHTING COMPANY LTD**
Street 77, 2nd Industrial City
Dammam 31411
Saudi Arabia

Manufacturing locations: **NATIONAL LIGHTING COMPANY LTD**
Street 77, 2nd Industrial City
Dammam 31411
Saudi Arabia

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

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:

[CN/CQM/ExTR26.0025/00](#)

Quality Assessment Report:

[US/UL/QAR24.0012/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

NLC EXP-JBA series electrical box / junction box consists of cover and body, which are made of aluminium alloy and fastened by A2-70 bolts. The body wall may be drilled with openings for optional Metric and NPT

threads which are used to install with cable glands or blanking element. And the cover may be drilled with openings for metric threads which are used to install with switches or push button or indicators. Push

button and Indicator are covered by CoC IECEx CML 22.0059U which has been assessed together with this equipment. There is a groove on the cover to meet requirements of IP66 according to IEC 60079-0.

Nomenclature and electric parameters refer to attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature range: -60°C~+55°C/-60°C~+60°C.
2. Observe the warning "WARNING-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT", "WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS."
3. Observe the warning "WARNING-DO NOT OPERATE UNDER LOAD" for product with disconnect.
4. Contact the original manufacturer for the information of dimension of flameproof joint.
5. When the product is installed in explosive gas atmosphere, separated certified cable glands or blanking elements fulfil requirements of IEC 60079-0:2017 and IEC 60079-1:2014 with Ex marking Ex db IIC Gb, IP66 shall be incorporated.
6. When the product is installed in combustible dust atmosphere, separated certified cable glands or blanking elements fulfil requirements of IEC 60079-0: 2017 and IEC 60079-31:2022 with Ex marking Ex tb IIC Gb, IP66 shall be incorporated.
7. The maximum temperature at cable entry is up to 151.3°C for junction box, choose proper cable and cable glands during installation.
8. The maximum available short circuit current connected shall be less than 10kA.

Annex:

[IECEx CQM 26.0027X issue 0 Attachment.pdf](#)



Attachment to CoC

IECEX CQM 26.0027X Issue 0



Applicant:

NATIONAL LIGHTING COMPANY LTD

Address: Street 77, 2nd Industrial City, Dammam, 31411 ,Saudi Arabia

Electrical equipment:

NLC EXP-JBA-* series electrical box/junction box

where * is shape code which can be A~F for electrical box

Ratings

Rated voltage: Max. 800 V AC 50/60 Hz, Max. 1500 V DC, Rated current: Max. 415 A.

NLC EXP-JBA series junction box

Type description	Power dissipation at Ta=60°C (W)			Power dissipation at Ta=55°C (W)
	T4/T130°C	T5/T95°C	T6/T80°C	T4/T130°C
NLC EXP-JBA-A	135.5	53	23.1	-
NLC EXP-JBA-B	135.5	63.1	33.9	-
NLC EXP-JBA-C	172.4	72.6	34.4	-
NLC EXP-JBA-D	-	100.5	53.5	324.7
NLC EXP-JBA-E	-	171.8	71.7	409.6
NLC EXP-JBA-F	-	210.3	105.1	564.5

NLC EXP-JBA series electrical box

Type description	Power dissipation at Ta=60°C (W)
	T6/T80°C
NLC EXP-JBA-A	23.1
NLC EXP-JBA-B	33.9
NLC EXP-JBA-C	34.4
NLC EXP-JBA-D	53.5
NLC EXP-JBA-E	71.7
NLC EXP-JBA-F	105.1