[1] TYPE EXAMINATION CERTIFICATE - Translation

[2] for non-electrical products of equipment-groups I and II,
equipment-categories M2 and 2 plus products of equipment-category 3

[3] Type examination certificate number **IBExU22ATEXB012 X** | Issue 0

[4] Product: **LED-Floodlight**
Type: nD8700 and nD8800

[5] Manufacturer: Adolf Schuch GmbH, Lichttechnische Spezialfabrik

[6] Address: Mainzer Straße 172
67547 Worms
GERMANY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in the confidential test report IB-22-3-0122.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN IEC 60079-15:2019 and EN 60079-31:2014
except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" or "U" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This type examination certificate relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured or supplied.

[12] The marking of the product shall include the following:

type nD8700 and nD8800

Ex II 3 G Ex nR IIC T4 Gc

Ex II 3 D Ex tc IIIC T100 °C Dc

-30 °C ≤ T_a ≤ +65 °C (maximum values)

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- Stamp -

Certificates without signature and stamp are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2025-03-31

[13] **Schedule**

[14] **Certificate number IBExU22ATEXB012 X** | Issue 0

[15] **Description of product**

The LED-Floodlight type nD8700 and nD8800 are used to illuminate factory and depot sites in areas with potentially gas and dust explosive requiring equipment of category 3 G or 3 D. The LED-Floodlights consist of an aluminum housing with a hinged cover in which a safety glass pane is installed. The housing contains assembled LED modules, which are fitted with different optics, as well as the LED control gear, connection terminals and if necessary fuse terminals (for versions for central battery).

The LED-Floodlight is can be mounted by using a bracket which is screwed into holes in the housing.

Technical data:

- Rated voltage:
  type nD8700 and nD8800: 220 ... 240 V AC (50...60 Hz) or
  176 ... 275 V DC
  (depending on version)
- Input power: max. 140 W (nD8700)
  max. 280 W (nD8800)
- Ambient temperature: -30 °C...+65 °C (maximal value)

List of versions:

Type	minimum ambient temperature, depending on internal components used	maximum ambient temperature, depending on internal components used
nD8700 6403	-30 °C	+40 °C or +45 °C or +50 °C
nD8700 6402	-30 °C	+50 °C or +55 °C or +60 °C
nD8700 6401	-30 °C	+55 °C or +60 °C
nD8700 4803	-30 °C	+40 °C or +50 °C or +55 °C
nD8700 4802	-30 °C	+50 °C or +60 °C
nD8700 4801	-30 °C	+60 °C or +65 °C
nD8700 3203	-30 °C	+45 °C or +50 °C
nD8700 3202	-30 °C	+45 °C or +50 °C
nD8700 3201	-30 °C	+45 °C or +50 °C
nD8700 1603	-30 °C	+55 °C
nD8700 1602	-30 °C	+55 °C
nD8700 1601	-30 °C	+55 °C
nD8800 6403	-30 °C	+40 °C or +50 °C or +55 °C
nD8800 6402	-30 °C	+50 °C or +55 °C or +60 °C
nD8800 6401	-30 °C	+55 °C or +60 °C or +65 °C
nD8800 12803	-30 °C	+45 °C
nD8800 12802	-30 °C	+45 °C or +50 °C or +55 °C
nD8800 12801	-30 °C	+50 °C or +55 °C or +60 °C

These values are maximum values. The actual values are determined by the built-in components. The manufacturer specified the rated values and ambient temperature range in the context of these limiting values and ensures compliance with the maximum surface temperature of the equipment and the permissible operating temperature of the components.

[16] **Test report**

The test results are recorded in the confidential test report IB-22-3-0122 of 2025-03-26.
The test documents are part of the test report and they are listed there.

Summary of the test results

The LED-Floodlight type nD8700 and nD8800 fulfil the requirements of explosion protection for electrical equipment of Equipment Group II, Category 3 G in equipment protection by type of protection restricted breathing "nR" for Explosion Group IIC and temperature class T4, as well as Category 3 D in type of protection dust ignition protection by enclosure "tc" for Explosion Group IIIC and a maximum surface temperature of 100 °C.

[17] **Specific conditions of use**

1. The LED-Floodlight shall not be exposed to high electrostatic charging processes.
2. The LED-Floodlight special versions SWP shall be protected and must be installed in such way, that they are not exposed to electrostatic charging processes. Cleaning is permitted only with a damp cloth.
3. Only cable glands with gaskets shall be used.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:
None

[19] **Drawings and Documents**

The documents are listed in the test report.

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