



[1] **TYPE EXAMINATION CERTIFICATE**
(Translation)

[2] **for electrical equipment of the Equipment Group II, Category 3**

[3] Type Examination Certificate Number: **IBExU16ATEXB006**

[4] Equipment: **LED linear luminaire**
Type nD 866. 12L...

[5] Manufacturer: **Adolf Schuch GmbH**

[6] Address: **Mainzer Straße 172**
67547 Worms
GERMANY

[7] The design of the equipment mentioned under [4] and any acceptable variation thereto are specified in the schedule to this Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive 94/9/EC.
The test results are recorded in Test Report IB-15-3-243 of 17 March 2016.


[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2007, EN 60079-5:2007, EN 60079-7:2015 and EN 60079-31:2014.

[10] If the sign "X" is placed after the certificate number and the marking under [12], it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this Type Examination Certificate and in the Operating instruction.


[11] This Type Examination Certificate relates only to the design and construction of the specified equipment. Further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include – depending on the built-in components – the following:

 **II 3G Ex ec IIC T4 Gc**

 **II 3G Ex ec q IIC T4 Gc**

 **II 3G Ex d ec IIC T4 Gc**

 **II 3D Ex tc IIIC T80°C Dc**

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

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, GERMANY
☎ +49 (0) 3731 3805-0 - 📠 +49 (0) 3731 23650

Freiberg, 17 March 2016

By order

(Dipl.-Ing. [FH] A. Henker)

IBExU
Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg/Sachsen
Tel. (0 37 31) 38 05-0
Fax (0 37 31) 2 36 50

- 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.

Schedule

[13] **Schedule**

[14] **to TYPE EXAMINATION CERTIFICATE IBExU16ATEXB006**

[15] **Description**

The LED linear luminaire type nD 866. 12L... is used to illuminate factory and depot sites in areas with potentially explosive atmospheres of zone 2 and 22. The luminaire consists of a polyester enclosure with fasteners made of stainless steel, a reflector with assembled LED boards, LED control gear and terminals, as well as a light-transmitting cover made of polycarbonate.

Technical data:

- Rated voltage: 220...240 V AC; 176...264 V DC
- Input power: up to approx. 75 W
- Through-wiring / looping: up to $12 \times \geq 2.5 \text{ mm}^2$ (max. 4 x 16 A)
- Ambient temperature: -30 °C...+65 °C

These values are maximum values. The actual values are determined by the built-in components. The manufacturer specifies the rated values 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. Through-wiring, selection of cable and cable glands may be restricted in some types of the luminaire. The corresponding rated values / restrictions are indicated on the individual marking plates and in the manufacturer's instructions.

[16] **Test Report**

The test results are recorded in the Test Report IB-15-3-243. The test documents are listed in the annex to the test report.

Summary of test results

The LED linear luminaire type nD 866. 12L... fulfils the requirements of explosion protection for electrical equipment of Equipment Group II, Category 3G in type of protection increased safety "e" in combination with powder filling "q" resp. flameproof enclosure "d" for Explosion Group IIC and temperature class T4, as well as Category 3D in type of protection dust ignition protection by enclosure "t" for Explosion Group IIIC and a maximum surface temperature of 80 °C.

Safety instructions

The plastic housing has to be protected against intense electrostatic charging processes. Cleaning is permitted only with a damp cloth.

[17] **Special conditions for safe use**

None

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

Confirmed by compliance of norms (see [9]).

By order

Freiberg, 17 March 2016



(Dipl.-Ing. [FH] A. Henker)