DNV·GL

Certificate No:
**TAE00001BT**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Light Fitting**

with type designation(s)
**EXLUX 6001/5 Series**

Issued to
## R. Stahl Schaltgeräte GmbH
**Waldenburg, Germany**

is found to comply with
**DNV GL rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

| | |
|---|---|
| **Vibration class** | **A** |
| **Enclosure class** | **C** |
| **Class** | **see Page 2** |
| **Temp. class** | **C** |
| **Voltage class** | **220 ... 240 V ± 10%, 50 / 60 Hz, Options see page 2** |
| **Ex class** | **see Page 2** |

This Certificate is valid until **2021-12-14**.

Issued at **Hamburg** on **2016-12-15**

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Maik Gagern**

**Duy Nam Le**
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.


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Job Id:
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## Product description

Explosion proof light fittings for fluorescent lamps Series 6001/5.*
Continued from page 1:
Protection Class:
I (with internal PE connection)
Voltage Class optional:
110 ... 240 V ± 10%, 50 / 60 Hz (Lamps acc. to IEC60081)
120V ... 277 V ± 10%, 50 / 60 Hz (Lamps acc. to ANSI IEC C78.81)

## Application/Limitation

EMC Class A
Electrical Explosion Protection:
Ex d e IIC T4 Gb and Ex tb IIIC T80°C Db or*
Ex db eb IIC T4 and Ex tb IIIC T80°C*
Max. ambient temperature 40°C for:
Type; ballast ; lamps ; wiring

- 6001/52; 6042/91; 2x18W; 3x2,5mm² (16A) / 3x4mm² (20A)
- 6001/53; 6042/93; 2x17W; all types
- 6001/54; 6042/98; 2x36W; 3x2,5mm2 (16A) / 3x4mm2 (10A and 20A)
- 6001/55; 6042/95; 2x32W; all types

Enclosure Class:
Types 6001/52 and 6001/53 (18/17W): C / B when using the breather 8162
Types 6001/54 and 6001/55 (36/32W): C / B when using the breather 8162

Temperature limitation (for temperatures above 45°C for information only)

| | | | **Through wiring, three wires loaded** | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | without | 3 x 2.5 mm² | | | 3 x 4.0 mm² | |
| **Type** | **Electronic ballast** | **Equipment** | - | 4A | 8 A | 16 A | 10 A | 20 A |
| 6001/52. | 6042/92. | 2 x 18 W | 60 °C | 60 °C | 55 °C | 50 °C | 55 °C | 50 °C |
| | 6042/14. | 2 x 18 W | 55 °C | 55 °C | 55 °C | 50 °C | 55 °C | 50 °C |
| | 6042/91. | 2 x 18 W | 45 °C | 45 °C | 45 °C | 40 °C | 45 °C | 40 °C |
| 6001/53. | 6042/93. | 2 x 17 W | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C |
| 6001/54. | 6042/94. | 2 x 36 W | 55 °C | 55 °C | 55 °C | 50 °C | 55 °C | 50 °C |
| | 6042/14. | 2 x 36 W | 55 °C | 55 °C | 55 °C | 50 °C | 55 °C | 50 °C |
| | 6042/98. | 2 x 36 W | 45 °C | 45 °C | 45 °C | 40 °C | 40 °C | 40 °C |
| 6001/55. | 6042/95. | 2 x 32 W | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C |

## Type Approval documentation
## Tests carried out

DNV GL Rules for Classification DNVGL-RU-0050, Edition 2016-01
DNV GL Class Guidelines DNVGL-CG-0339, Edition 2015-11
DNV GL Class Program DNVGL-CP-0398, Edition 2015-12

## Marking of product

Maker's trademark
Type designation
Ambient temperature with through wiring
Ambient temperature without through wiring
Rated voltage
Lamp power
Kind of lamp
Electrical explosion protection: Type of protection and marking according to the applicable Certificate of Conformity

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.
The main elements of the survey are:
• Inspection on factory samples, selected at random from the production line
• Review of type approval documentation
• Review of possible change in design, materials and performance
• Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.
Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

## General Remarks

*Note: All details about electrical explosion protection mentioned in this certificate are for information only. For relevant binding information the Certificate of Conformity IECEx PTB 13.0003 shall be observed.

END OF CERTIFICATE