



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEX EPS 13.0027</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2021-06-25)
Date of Issue:	2023-02-02		Issue 2 (2017-02-21)
Applicant:	<b>R. STAHL Schaltgeräte GmbH</b> Am Bahnhof 30 74638 Waldenburg Germany		Issue 1 (2015-03-09)
Equipment:	<b>Tubular light fitting Type 6036 / 1. and 6036 / 3.</b>		Issue 0 (2013-11-26)
Optional accessory:			
Type of Protection:	<b>"db" "tb" "op is"</b>		
Marking:	Ex db op is IIC T6/T4 Gb Ex tb IIIC T80°C/T100°C Db Ex db op is I Mb		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ulrich Feike**

Position:

**Head of Certification**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
**Germany**

Manufacturing locations: **R. STAHL Schaltgeräte GmbH**  
Nordstrasse 10  
99427 Weimar  
**Germany**

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

[IEC 60079-31:2022-01](#) 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:

[DE/EPS/ExTR13.0028/06](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/18](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The tubular light fitting type 6036 / ... is an explosion-proof electrical equipment in type of protection "flameproof enclosure" ("d") and "dust protection by enclosure" ("tb"). It is used to illuminate factory shops and stores in gas hazardous areas of zone 1 and zone 2 as well as in dust hazardous areas zone 21 and zone 22. The tubular light fitting can also be used in mines susceptible to firedamp. The housing consists of a transparent polycarbonate tube with aluminium end caps, which are completely covered by rubber caps (Type 6036/1). With the variant 6036/3, the plastic end caps are heat-joined and a thread adapter is used to mount the cable gland. The electronics are located within the flameproof enclosure and are powered by a direct cable entry. The equipment is intended for fixed installation. Additional information for the safe operation can be found in the operating instructions.

Electrical data: see attachment

Special conditions for safe use: see attachment

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Addition of model 6036/3

**Annex:**

[IECEX EPS 13.0027 - Annex.pdf](#)

Electrical data:

LEDs with Lambertian radiation characteristics

High-Power LEDs: UF ≤ 3.3 V for I = 0.8 A, operation with max. 350 mA

Mid-Power LEDs: UF ≤ 3.3 V for I = 0.12 A, operation with max. 120 mA

Size	Max. number High- Power-LEDs (single row) <sup>1)</sup>	Max. number Mid- Power-LEDs (single row) <sup>2)</sup>	Max. number Mid- Power-LEDs (double-row) <sup>3)</sup>	Resistor
1	11	33	40	≤ 5 Ω
2	22	66	80	≤ 10 Ω
3	33	99	120	≤ 15 Ω
4	44	132	160	≤ 20 Ω

<sup>1)</sup> series circuit

<sup>2)</sup> series/parallel circuit, á 3 LEDs parallel

<sup>3)</sup> series/parallel circuit, á 4 LEDs parallel

Size	1	2	3	4	
Input Power	≤12 W		≤25 W	≤35 W	≤48 W
Rated input voltage	12 V DC, 24 ... 48 V AC / DC, 110 ... 240 V AC / DC, 100 ... 277 V AC / 190 ... 250 V DC		100 ... 277 V AC / 190 ... 250 V DC		
Temperature class	T6 <sup>1)</sup>	T4	T6	T4	
max. surface temperature	T 80 °C	T 100 °C	T 80 °C	T 100 °C	
max. ambient temperature 6036/1	40 °C	70 °C <sup>1)</sup> 40 °C	50 °C	60 °C	
max. ambient temperature 6036/3	50 °C	70 °C <sup>1)</sup> 40 °C	50 °C	70 °C	
min. ambient temperature	-60/ -55 °C (-40 °C for mining use)				

<sup>1)</sup> not for 12V DC Variant

Special conditions for safe use:

- Depending on the ambient temperature and variation, a routine or batch test in accordance with EN 60079-1 Section 16 may be required.
- The luminaire has to be protected against intense electrostatic charging processes. Cleaning is permitted only with a damp cloth.