



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 IBE 23.0005** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-06-13

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

Equipment: **LED Cleanroom Light Fitting type 6013/5**

Optional accessory:

Type of Protection: **Flameproof enclosure, increased safety and intrinsic safety**

Marking: Type 6013/522*
Ex db eb ib IIC T4 Gb
-20 °C ≤ T_a ≤ +45 °C

Type 6013/523*
Ex db eb ib IIC T4 Gb
-20 °C ≤ T_a ≤ +44 °C

Approved for issue on behalf of the IECEx
Certification Body:

Kai Willamowski

Position:

Head of department Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
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

R. STAHL (P) LTD
Plot No. 5, Malrosapuram Road
Sengundram Indl Area
Singaperumal Koil Chengalpattu Dt.,
Tamil Nadu - 603 204
India

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/IBE/ExTR23.0004/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The LED Cleanroom Light Fitting of type 6013/5 is a recessed luminaire for application in explosive gas atmospheres that require equipment protection level (EPL) Gb. The luminaire consists of a metal enclosure made of stainless steel and a cover made of toughened glass in a metal frame. A gasket made of silicone foam is applied for sealing of the luminaire enclosure. Internally, the luminaire is equipped with a separately certified LED control gear (type 6045/3..-1) and several integral LED modules employing mid-power LEDs.

The individual LEDs are protected in type of protection intrinsic safety "ib", which is provided in combination with an Ex-i module (current limiter) as integrated part of the LED control gear (type 6045/3).

The luminaire is intended for installation in a false ceiling where no heat accumulation occurs. It is not suitable for covering with thermally insulating material.

Technical data:

| Type | 6013/522* | 6013/523* |
|--------------------------|---|--------------------|
| Nominal input power | ≤ 40 W | ≤ 50 W |
| Nominal input voltage | 220 V...240 V AC, 50/60 Hz; 220 V...240 V DC | |
| Enclosure size | Small ¹ | Large ² |
| LEDs | Mid-power LEDs | |
| LED module configuration | 6 LED blocks connected in series with 4 parallel LEDs per block (6 x 4 configuration) | |
| Number of LED modules | 4 (28 W) | 4 (28 W) |
| | 6 (40 W) | 6 (40 W) |
| | | 8 (50 W) |
| Nominal LED current | max. 350 mA | |
| Through-wiring | max. 3 x 10 A | |
| Ambient temperature | -20 °C...+45 °C | -20 °C...+44 °C |
| Temperature class | T4 | |

(1) Small enclosure size: 290 mm x 560 mm x 80 mm

(2) Large enclosure size: 590 mm x 560 mm x 80 mm

SPECIFIC CONDITIONS OF USE: NO