



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx IBE 19.0016

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-07-15\)](#)

Status: **Current**

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Date of Issue: **2019-07-15**

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

Equipment: **Compact Luminaire with LED type 6102/ and 6109/.**

Optional accessory:

Type of Protection: **increased safety "e" in combination with flameproof enclosure "d" and intrinsic safety "i" or dust ignition protection by enclosure "t", inherently safe optical radiation "op is"**

Marking:

Ex db eb ib op is IIC T4 Gb

Ex tb op is IIIC T100°C Db

-40 °C ≤ Ta ≤ +60 °C (maximum values; depends on type)

*Approved for issue on behalf of the IECEx
Certification Body:*

Dipl.-Ing. Alexander Henker

Position:

Head of Certification Body

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](#).

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany





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

Additional Manufacturing location(s):

R. STAHL Schaltgeräte GmbH
Nordstraße 10
99427 Weimar
Germany

R. STAHL (P) LTD.
Plot No. -5, Malrosapuram Road,
Sengundram Ind. Area
Singaperumal Koil, Kanacheepuram Dist.,
Talmilnadu - 603204
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 apparatus 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 Edition:7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1 : 2014-06 Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-11 : 2011 Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-28 : 2015 Edition:2 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation |
| IEC 60079-31 : 2013 Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| IEC 60079-7 : 2015 Edition:5.0 | Explosive atmospheres – Part 7: Equipment protection by increased safety "e" |

*This Certificate **does not** indicate compliance with electrical 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/ExTR17.0043/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/14](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Compact Luminaire with LED of type 6102/ and 6109/ are LED luminaires intended for use in areas with potentially explosive gas and dust atmospheres of zone 1, 2, 21 and 22. The luminaire consists of a polyester enclosure, an assembly plate / reflector with LED modules, LED control gear and terminals, and a light-transmitting cover made of polycarbonate.

Type 6109/ is intended for the use as emergency light. Thus, this luminaire is equipped with a replaceable battery pack for emergency light function.

The luminaires are intended for indoor and outdoor use.

For technical data see Annex.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[Annex_IBE19.0016.pdf](#)



IECEX Certificate of Conformity - Annex



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Technical data:

| | | |
|------------------------------|--|--|
| Luminaire type | 6102/. | 6109/. |
| Nominal input power | 10 W | 10 W |
| nominal voltage | 100...240 V AC 100...250 V DC (*) (*) 220...240 V AC or 194 ...250 V DC for types with integrated control unit ADR (type 6045/2...2.) | 100...240 V AC |
| ambient temperature range | -40 °C...+50 °C ⁽¹⁾ -40 °C...+60 °C ⁽²⁾ (1) with through wiring 3 conductors, each maximum 16 A (2) with through wiring 3 conductors, each maximum 10 A | -30 °C...+50 °C ⁽¹⁾ -30 °C...+60 °C ⁽²⁾ (1) with through wiring 3 conductors, each maximum 16 A (2) with through wiring 3 conductors, each maximum 10 A |
| battery | - | NiCd, 6 V; 2.2 Ah |