



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 PTB 13.0059	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2019-12-04)
Date of Issue:	2020-06-11		Issue 1 (2019-03-26)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30, 74638 Waldenburg Germany		Issue 0 (2014-02-07)
Equipment:	Emergency light fitting for fluorescent lamps, type 6009/5...-...-....		
Optional accessory:			
Type of Protection:	Flameproof Enclosures "d", Increased Safety "e", Encapsulation "m", Protection by Enclosure "t"		
Marking:	Ex db eb mb IIC T4 Gb Ex tb III C T80 °C Db		

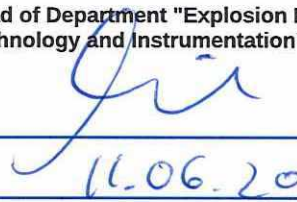
Approved for issue on behalf of the IECEx
Certification Body:

Dr. F.Lienesch

Position:

**Head of Department "Explosion Protection in Sensor
Technology and Instrumentation"**

Signature:
(for printed version)


11.06.20

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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

Additional manufacturing locations: **R.Stahl Schaltgeräte GmbH**
Nordstrasse 10
Weimar D-99427
Germany

R. STAHL (P) LTD
Plot No. 5, Malrosapuram Road
Sengundram Indl Area
Singaperumal Koil
Kancheepuram 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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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/PTB/ExTR13.0078/03](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/15](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Electrical apparatus: Emergency light fitting for fluorescent lamps, type 6009/5...-...-....

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The ambient temperature range is -30°C to +50°C and
-30°C to +55°C with a through wiring $I \leq 8$ A.



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Additional information:

The emergency light fitting of type 6009 is an explosion-protected electrical equipment for use in Zone 1, Zone 2, Zone 21 and Zone 22. It is available for wall, ceiling or pole mounting. The emergency light fitting consists of light fitting type 6001 and additional flanged battery box. The enclosure is made of polyester resin and the light-transmitting protective cover is made of polycarbonate. The joint surface between the enclosure and the cover is fitted with a seal, thus making it water- and dust-tight.

The series 6009 emergency light fitting is available in the following versions: single and double lamp 18 W (IEC 60081) or 17 W (ANSI C78.81) single and double lamp 36 W (IEC 60081) or 32 W (ANSI C78.81).

Annex:

[6009_Attach_CoC_13_0059-iss03_2020_05.pdf](#)



Description of equipment

The emergency light fitting of type 6009/5.-...-...-... is an explosion-protected electrical equipment for use in Zone 1, Zone 2, Zone 21 and Zone 22. It is available for wall, ceiling or pole mounting. The emergency light fitting consists of light fitting type 6001 and additional flanged battery box. The enclosure is made of polyester resin and the light-transmitting protective cover is made of polycarbonate.

The joint surface between the enclosure and the cover is fitted with a seal, thus making it water- and dust-tight.

Additions to the emergency light fitting, such as breathing glands, metal entries, bi-pin fluorescent lamps with a diameter of ≤ 38 mm (to IEC 60081 or ANSI C78.81) are permissible. The emergency light fittings are suitable for use in explosive gas atmospheres and in combustible dust atmospheres. Depending upon the assembly parts and the additional features, the emergency light fitting shall be used in accordance with the marking.

The series 6009 light fitting is available in the following versions:

Single and double lamp 18 W (IEC 60081) or 17 W (ANSI IEC C78.81)

Single and double lamp 36 W (IEC 60081) or 32 W (ANSI IEC C78.81)

The emergency light fitting with an additional flanged battery box features a flameproof electronic ballast with emergency light electronics of type 6043/7, indicator lamp of type 8412 and contact blocks of type 8080 and 8082. All components have been certified separately.

In consultation with the manufacturer, breathing plugs can be retrofitted; their specification should be inquired at the manufacturer.

Technical data

Type	6009/52		6009/54		6009/53	6009/55
Lamp	IEC 60081		IEC 60081		ANSI C78.81	
Lamp power	2 x 18 W		2 x 36 W		2 x 17 W	2 x 32 W
EB	6043/79	6043/78	6043/79	6043/78	6043/75	
Nominal input voltage	220...253 V	110...127 V	220...253 V	110...127 V	120 V	
Input voltage range	198...279 V	99...140 V	198...279 V	99...140 V	108...132 V	
Line Frequency	50 ... 60 Hz					
Through wiring	three wires loaded with $I \leq 16$ A (2,5 mm ²) or $I \leq 20$ A (4 mm ²)					
Ambient temperature range	-30 ... +50 °C -30 ... +55 °C (Through wiring $I \leq 8$ A)					
Battery	6 V / 7 Ah NiCd					



Nomenclature

Emergency light fitting of type 6009/abc-defg-hijk-l

- a version
 - 5 = with lamp holder G13
- b light source / nominal power
 - 2 = 18 W
 - 3 = 17 W
 - 4 = 36 W
 - 5 = 32 W
- c Number of lamps
 - 1 = 1 lamp
 - 2 = 2 lamps
- d Method of switching
 - 9 = dual-channel (1 or 2 electronic ballasts)
- e to l numerals or letters without influence to explosion-protection

Ambient temperature range

-30 °C to +50 °C,

-30 °C to +55 °C (Through wiring $I \leq 8$ A)

The maximum surface temperature is T80 °C; the temperature class is T4.

Rated cross section:

0,75 mm² to 4 mm² / 6 mm², depending on the used connection terminals.