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 EPS 15.0087**

Certificate history:
Issue 2 (2017-10-02)
Issue 1 (2016-08-05)
Issue 0 (2016-01-27)

Status: **Current**

Issue No: 3

Date of Issue: 2020-09-14

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

Equipment: **LED Floodlight Type 6125**

Optional accessory:

Type of Protection: **db, eb, tb, op is**

Marking: Ex db eb op is IIC T4 Gb

Ex tb op is IIIC T80°C / T95°C / T100°C Db

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

Position: **Certification Manager**

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 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

Additional manufacturing locations:
R. STAHL (P) LTD
Plot No. 5, Malrosapuram Road
Sengundram Indl Area
Singaperumal Koil
Kancheepuram Dt., Tamil Nadu 603 204
India

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

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 Reports:

DE/EPS/ExTR15.0087/00 DE/EPS/ExTR15.0087/01 DE/EPS/ExTR15.0087/02
DE/EPS/ExTR15.0087/03 DE/EPS/ExTR15.0087/04

Quality Assessment Report:

DE/BVS/QAR10.0002/15

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The LED Floodlight series 6125 is an explosion-proof electrical luminaire with LEDs protected by flameproof enclosure situated inside an increased safety enclosure. They are suitable for illumination of operating and storage facilities in hazardous areas for use in Equipment Protection Level Gb, Gc, Db and Dc.

Enclosure rating according to IEC 60529: IP66

Refer to annex for type designation, ambient temperature and temperature classification.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Extension of ambient temperature range and update to IIC

Issue 2: Marking correction and component update

Issue 3: New generation enclosure and LED control gear, alternative glass and LED optics, update of type code and standards edition

Annex:

IECEx EPS 15.0087 - Annex.pdf

Type designation:

6125	/	*	*	*	*	-	*	*	*	*	-****-***
a		b	c	d	e		f	g	h	i	j

a Type series
b Generation
1 – 1.
2 – 2.
c Ex - Protection
1 – IIC
d Size in Height
1 – 600
2 – 520
e Light Distribution
1 – 20°
2 – 40°
4 – 120°
f Wattage
1 – 100 W
2 – 120 W
3 – 160 W
4 – 210 W / 190 W
5 – 225 W
g LED - Driver
1 – 1x OT 150
2 – 2x OT 150
3 – 1x OT 165
4 – 2x OT 165
5 – 6040
6 – 6040 with DALI
h Control gear assembly
* – without reference to explosion-protection
i Thermal protection
0 – without
1 – with
j additional information without reference to explosion-protection

Ambient temperature and temperature classification:

Version	Power	Ambient Temperature	Temperature Class	Maximum Surface Temperature	Special requirements to operating temperature for loop in loop out		
					0A < I ≤ 10A	10A < I ≤ 16A	
					to cables	to cables	to cable glands
6125/1...	120 W / 210 W	- 60°C[1] ≤ T_{amb} ≤ +60°C	T4	+95°C	---	---	---
	120 W	- 60°C[1] ≤ T_{amb} ≤ +50°C		+80°C	---	---	---
	210 W	- 60°C[1] ≤ T_{amb} ≤ +45°C		+80°C	---	---	---
6125/2...	100 W	- 60°C[1] ≤ T_{amb} ≤ +60°C	T4	+100°C	---	≥95°C	≥85°C
		- 60°C[1] ≤ T_{amb} ≤ +50°C		+100°C	---	≥85°C	≥75°C
	160 W / 120 W	- 60°C[1] ≤ T_{amb} ≤ +60°C		+100°C	≥70°C	≥100°C	≥85°C
		- 60°C[1] ≤ T_{amb} ≤ +50°C		+100°C	---	≥90°C	≥80°C
	225 W / 190 W	- 60°C[1] ≤ T_{amb} ≤ +60°C		+100°C	≥75°C	≥95°C	≥85°C
		- 60°C[1] ≤ T_{amb} ≤ +50°C		+100°C	---	≥85°C	≥80°C

1) Lamp start at Ta ≥ -40°C