



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 BAS 14.0064 Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2015-02-10\)](#)
Date of Issue: **2015-02-10** [Issue No. 0 \(2014-09-04\)](#)

Applicant: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
Germany

Electrical Apparatus: **A Type YL6S Visual and Audible Alarm**
Optional accessory:

Type of Protection: **Flameproof and dust protected**

Marking:
Ex d IIB T* Ta -60°C to +70°C Gb or
Ex d IIC T* Ta -60°C to +70°C G
Ex tb IIIC T*C Ta -60°C to +70°C Db IP66**

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General 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 the [Official IECEx Website](#).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
Germany

Additional Manufacturing
location(s):

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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

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

*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:

[GB/BAS/ExTR14.0137/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The type YL6S Visual and Audible Alarm comprises a glass reinforced polyester base and cover. The cover is provided with a glass #FFFFFF lens, a plain or Fresnel outer lens which can be in a number of colours, and a guard. The cover also contains printed circuit boards providing the driver for a xenon lamp rated at 5J. The flash rate is 1 per second.

The base has a sound driver rated at 10W, an integral re-entrant horn, and provision for cable entries mounting holes and a mounting bracket.

The type YL6S Visual and Audible Alarm is rated at 24Vdc, 48Vdc, 115Vac and 230Vac. 50W.

The type YA6S Audible Alarm is similar to the above but the lens cover is replaced with a flat cover and is rated 24Vdc, 48Vdc, 115Vac and 230Vac. 10W.

The type FL6S Visual Alarm is similar to the type YL6S Visual and Audible Alarm but with the base unit replaced with one without the integral horn and provided with a flat cover. The V6S visual alarm is rated 24Vdc, 48Vdc, 115Vac and 230Vac. 40W.

The temperature classification, maximum surface temperature, ambient temperature range, and cable temperature rise is indicated in the tables as listed in the Annex.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

CONDITIONS OF CERTIFICATION: NO



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

Variation 1.1

Minor modification to Annex.

Annex:

[IECEX BAS 14.0064 Annex 1.pdf](#)

YL6S Visual and Audible Alarm				
Power and Voltage	Temperature Classification	Maximum Surface Temperature	Ambient Temperature Range	Cable Temperature Rise (K)
5J 24Vdc	T5	T95°C	-60°C to + 40°C	38
	T4	T110°C	-60°C to + 55°C	
5J 48Vdc	T5	T95°C	-60°C to + 40°C	38
	T4	T110°C	-60°C to + 55°C	
5J 115Vac	T5	T95°C	-60°C to + 40°C	38
	T4	T110°C	-60°C to + 55°C	
5J 240Vac	T5	T95°C	-60°C to + 40°C	38
	T4	T110°C	-60°C to + 55°C	

YA6S Audible alarm				
Power and Voltage	Temperature Classification	Maximum Surface Temperature	Ambient Temperature Range	Cable Temperature Rise (K)
24Vdc/ 48Vdc	T6	T75°C	-60°C to + 70°C	5
115Vac/ 240Vac	T6	T77°C	-60°C to + 60°C	17
	T5	T87°C	-60°C to + 70°C	

FL6S Visual alarm				
Power and Voltage	Temperature Classification	Maximum Surface Temperature	Ambient Temperature Range	Cable Temperature Rise (K)
5J 24Vdc	T6	T73°C	-60°C to + 40°C	20
	T5	T88°C	-60°C to + 55°C	
	T4	T103°C	-60°C to + 70°C	
5J 48Vdc	T6	T73°C	-60°C to + 40°C	20
	T5	T88°C	-60°C to + 55°C	
	T4	T103°C	-60°C to + 70°C	
5J 115Vac	T5	T83°C	-60°C to + 40°C	40
	T4	T113°C	-60°C to + 55°C	
5J 240Vac	T6	T75°C	-60°C to + 40°C	30
	T5	T90°C	-60°C to + 55°C	
	T4	T105°C	-60°C to + 70°C	