



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 05.0086X issue No.:8

Status: **Current**

Date of Issue: **2013-04-10** Page 1 of 5

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

Certificate history:
Issue No. 8 (2013-4-10)
Issue No. 7 (2012-1-31)
Issue No. 6 (2010-10-19)
Issue No. 5 (2010-4-14)
Issue No. 4 (2008-11-14)
Issue No. 3 (2008-8-20)
Issue No. 2 (2008-3-31)
Issue No. 1 (2008-1-4)
Issue No. 0 (2006-3-17)

Electrical Apparatus: **A Yodalex Type YL60B Audible/Visual Alarm**
Optional accessory:

Type of Protection: **Flameproof and Dust**


Marking: **Ex d IIB T4 Ta -35°C to + 60°C Gb**
Ex tb IIIC T135°C Ta -35°C to + 60°C Db IP66
or when provided with a 5J xenon where applicable
Ex d IIB T6 Ta -35°C to + 40°C Gb
Ex tb IIIC T85°C Ta -35°C to + 40°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

 R S Sinclair 

Position: General Manager

Signature:
(for printed version)



10/4/13

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](http://www.iecex.com).

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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

IECEX ATR:
GB/BAS/ExTR11.0080/00
GB/BAS/ExTR13.0088/00
GB/BAS/ExTR08.0115/00

File Reference:
11/0217
13/0273
GB/BAS/ExTR08.0197/00 and 0121/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

YODALEX TYPE YL60B SOUNDER/STROBE is an audible/visual alarm device comprising a cast aluminium body and end covers each secured by four M5, 30mm long socket head cap screws grade A4-80. One end cover accommodates a well glass assembly and the other a sounder assembly.

The well glass assembly comprises an untoughened glass part cemented into the end cover with a silicone material and retained with a threaded steel clamping ring. A coloured polycarbonate lens is clipped into position over the wellglass. In addition a wire guard is permanently secured to the body of the wellglass assembly by four tamperproof fixing screws.

The sounder assembly comprises a breathing device (sinter) located in a centrally machined bore provided in the end cover by an interference fit and is retained internally by a circlip. Cemented in position externally to this arrangement is a moulded trumpet to which is fixed, by screws, a horn cover.

A nitrile rubber 'O' ring is provided within a machined groove at each face of the body to which each end cover is secured.

A printed circuit board arrangement incorporating terminal facilities is located between guide channels integrally cast with the inside wall of the body and held in position by the sounder unit.

Soldered to the top edge of the board is a xenon lamp rated at 5J which is positioned centrally within the well glass.

Internal and external earth facilities are provided.

The equipment provides a degree of ingress protection of IP66.

The equipment is intended to be so mounted that it operates with the horn cover orientated upwards.

Cable entries are provided by two threaded apertures.

Due to the lens, horn cover and trumpet materials presenting a possible electrostatic risk, and therefore to obviate the risk of creating an ignition source, a warning label is fixed externally to the enclosure indicating that these should be cleaned only with a damp cloth.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment incorporated flameproof joints which have a maximum gap less than that stated in the standard IEC 60079-1. The user must ensure that the diametric clearance associated with the spigot joint at each end cover does not exceed 0.064mm and that the gap between the face of each end cover and the body does not exceed 0.038mm.

2. For replacement purposes the end cover fixing screws shall be of minimum grade A4-80 stainless steel.

3. The cable entry device shall be suitably sealed to maintain the IP66 rating



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EQUIPMENT(continued):

The YODALEX TYPE YL60B SOUNDER/STROBE may also be identified as:-

- i) YODALEX TYPE YL60B AUDIBLE/VISUAL ALARM or
- ii) YODALEX TYPE YL6.

The equipment is available in the following ratings:-

- i) 24Vd.c., 570mA
- ii) 115Va.c., 200mA
- iii) 230Va.c., 100mA

The designation code is made up as follows: YL60B*50*EU

where the first * indicates the voltage rating (D= 24V d.c.; L=115Va.c.; N=230Va.c.) and the second * indicates the lens colour.

VARIATION 0.1

Omission of the well glass assembly and replacement by a plain flat end cover. The printed circuit board is replaced by a version designed to control the sounder only and which incorporates terminal facilities.

In this form the equipment is designated YODALEX TYPE YA60B SOUNDER.

The equipment is intended to be so mounted that it operates with the horn cover orientated upwards.

The equipment is available in the following ratings:-

- i) 24Vd.c., 350mA
- ii) 115Va.c., 110mA
- iii) 230Va.c., 55mA

The designation code is made up as follows: YA60B*EU

where * indicates the voltage rating (D= 24V d.c.; L=115Va.c.; N=230Va.c.)

The YODALEX TYPE YA60B SOUNDER may also be identified as:-

- i) YODALEX TYPE YA60B AUDIBLE ALARM
- ii) YODALEX TYPE YO6.

VARIATION 0.2

Omission of the sounder assembly and replacement by a plain flat end cover. The printed circuit board is replaced by a version designed to control the xenon lamp only and which incorporates terminal facilities.

In this form the equipment is designated YODALEX TYPE FL60B STROBE.

The equipment is intended to be so mounted that it operates with the well glass cover orientated downwards.

The equipment is available in the following ratings:-

- i) 24Vd.c., 220mA
- ii) 115Va.c., 90mA
- iii) 230Va.c., 45mA

The designation code is made up as follows: FL60B*50*EU

where the first * indicates the voltage rating (D= 24V d.c.; L=115Va.c.; N=230Va.c.)and the second * indicates the lens colour.

The YODALEX TYPE FL60B STROBE may also be identified as:

- i) YODALEX TYPE FL60B VISUAL ALARM or
- ii) YODALEX TYPE V6.

Variation 0.3

Alternative cement material for the wellglass assembly.



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

Variation 8.1

To permit the use of an alternative sinter as used in the Yodalex Type YL60C Audible/Visual Alarm.

ExTR: GB/BAS/ExTR13. 0086/00

File Reference: 13/0273