



EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 EC - Type Examination Certificate Number: **Baseefa02ATEX0222X**
- 4 Equipment or Protective System: **A YODALEX TYPE YL60C SOUNDER/STROBE**
- 5 Manufacturer: **Clifford & Snell – A Division of Signature Industries Limited**
- 6 Address: **Tom Cribb Road, Thamesmead, London, SE28 0BH**
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. 02(C)0198
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + Amendments 1 and 2 EN 50018: 2000 EN 50281-1-1: 1998
- except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- 12 The marking of the equipment or protective system shall include the following :
- ⊕ II 2G D EEx d IIB+H₂ T 135°C (Tamb -20°C to +60°C)**
- This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. 0220

Project File No. 02/0198

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

Health and Safety Laboratory Site, Harpur Hill,
Buxton, Derbyshire SK17 9JN
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216
e-mail info@baseefa2001.biz web site www.baseefa2001.biz
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



Schedule

13 Description of Equipment or Protective System

A YODALEX TYPE YL60C 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 a toughened glass part cemented into the end cover with a silicone material and retained with a threaded steel clamping ring.

A coloured polycarbonate lens is fitted over the well glass and is fixed in position by screws. In addition a wire guard is clipped into position over the lens.

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 entry holes are provided as specified on the certificate schedule drawings for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. The cabling methods used in service must be suitable for the conditions of use. Any unused cable entry hole is to be fitted with a suitable BASEEFA certified flameproof stopping plug.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC may also be used in the manner indicated above.

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.

The YODALEX TYPE YL60C SOUNDER/STROBE may also be identified as:-

- i) A YODALEX TYPE YL60C AUDIBLE/VISUAL ALARM or
- ii) A 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:-

YL60C*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;

A YODALEX TYPE YA60C 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:-

YA60C*EU

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

The YODALEX TYPE YA60C SOUNDER may also be identified as:-

- i) **A YODALEX YA60C AUDIBLE ALARM**
- ii) **A 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 FL60C 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:-

FL60C*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 FL60C STROBE may also be identified as:-

- i) A YODALEX FL60C VISUAL ALARM or
- ii) A YODALEX TYPE V6

14 Report Number

02(C)0198

15 Special Conditions for Safe Use

- 1. The equipment incorporates flameproof joints which have a maximum gap less than that stated in EN 50018: 2000. 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 shall be suitably sealed to maintain the IP66 rating.

16 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

17 Drawings and Documents

Number	Issue	Date	Description
D7004	4	21-1-03	General Arrangement
D7003	3	21-1-03	General Assembly
D6979	15	21-1-03	Body
D6982	11	21-1-03	End Cover-Audible Unit
D6981	8	21-1-03	End Cover-Visual Unit
D6980	8	21-1-03	End Cover-Blanking
D6985	5	21-1-03	Sinters
D6977	4	10-12-02	Well Glass Details
D7296	1	21-1-03	Well Glass Assembly
D6984	5	21-1-03	Clamping Ring
D7299	1	21-1-03	Sounder Device
D7298	1	21-1-03	Sounder Device Assembly
D7297/A	1	21-1-03	PCB Assembly (DC Audible/Visual)
D7297/B	1	21-1-03	PCB Assembly (DC Audible)
D7297/C	1	21-1-03	PCB Assembly (DC Visual)
D7300/A	1	21-1-03	PCB Assembly (AC Audible/Visual)
D7300/B	1	21-1-03	PCB Assembly (AC Audible)
D7300/C	1	21-1-03	PCB Assembly (AC Visual)
D7301/A	1	21-1-03	PCB Assembly(AC with TX Audible/Visual)
D7301/B	1	21-1-03	PCB Assembly(AC with TX Audible)
D7301/C	1	21-1-03	PCB Assembly(AC with TX Visual)
D7303/A	1	8-1-03	Certification Label (YL60)
D7303/B	1	8-1-03	Certification Label (YA60)
D7303/C	1	8-1-03	Certification Label (FL60)
D6988	2	21-1-03	Mounting Bracket
D6978	6	21-1-03	Guard

These drawings are common to EC-Type Certificates Baseefa02ATEX0222X and Baseefa02ATEX0212X and are held with Baseefa02ATEX0212X.



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa02ATEX0222X/4**

4 Equipment or Protective System: **A Yodalex Type YL60C Sounder Strobe**

5 Manufacturer: **Signature Industries Ltd.**

6 Address: **Tom Cribb Road, Thamesmead, London, SE28 0BH**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa02ATEX0222X** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

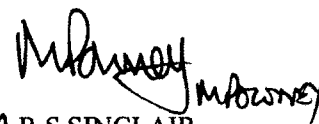
Baseefa Customer Reference No. **0220**

Project File No. **06/0552**

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Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa02ATEX0222X/4

15 **Description of the variation to the Equipment or Protective System**

Variation 4.1

To permit the addition of new types 10J and 20J to the range

Variation 4.2

Clarification of drawings

16 **Report Number**

Baseefa IECEX Certification Report GB/BAS/ExTR06.0165/00

17 **Special Conditions for Safe Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
D7461	A	26/6/06	20J V6 (dc) PCB Assembly
D7462	A	27/6/06	10J V6 (dc) PCB Assembly
D7463	D	16/1/07	10J V6 (ac) PCB Assembly
D7464	A	26/6/06	Yodalex Baseefa Labels (FL60)
D7465	A	26/6/06	YODALEX Baseefa Labels (FL60)
D7468	D	16/1/07	20J V6 (ac) PCB Assembly
D7477	1	22/08/06	PCB Assy (with PSU) Overall Dimensions Sounder-Strobe (AC)
D7478	1	24/08/06	PCB Module Assy Sounder-Strobe (AC)
D7479	1	24/08/06	PSU PCB Module Assy Strobe (AC)
D7500-003	1	11/12/07	Sintered Filter
WD9540	C	04/07/06	Yodalex 10/20W Circuit Diagram

All of the above drawings are common to Baseefa02ATEX0212X and IECEX BAS 05.0087X, and are common to and held with IECEX BAS 05.0086X.