



British Approvals Service for Electrical  
Equipment in Flammable Atmospheres



## **Certificate of Conformity**

- 1.
2. **BAS No Ex 93C2235**
3. This certificate is issued for the electrical apparatus:  
**HIGH INTENSITY VISILARM TYPE VA2**
4. manufactured and submitted for certification by:  
**WEIDMULLER (KLIPPON MICROSYSTEMS) LTD**  
Safety Technology Products  
of West Malling, Kent, ME19 6EX
5. This electrical apparatus and any acceptable variation thereto is specified in the Schedule to this Certificate and the documents therein referred to.
6. BASEEFA being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC) certifies that the apparatus has been found to comply with harmonised European Standards

EN50 014 (1977) + Amendments 1 to 5  
EN50 020 (1977) + Amendments 1 and 2

and has successfully met the examination and test requirements as recorded in confidential Report

No 93(C)193 dated 27 July 1993

7. The apparatus marking shall include the code

EEx ia IIC T6

File No: EECS 0932/02/006



Sheet 1/4

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**I M CLEARE**  
DIRECTOR EECS  
12 October 1993



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom  
Tel: 0298 26211 Fax: 0298 79514 Telex: 668113 RLSD G





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8. The manufacturer of the electrical apparatus referred to in this certificate, has the responsibility to ensure that the apparatus conforms to the specification laid down in the Schedule to this certificate and has satisfied routine verifications and tests specified therein.

9. This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984 (Doc 84/47/EEC). A facsimile of this mark is printed on sheet 1 of this certificate.

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This certificate is granted subject to conditions applicable to the Approval Service, it does not necessarily indicate that the apparatus may lawfully be used in particular industries or circumstances.



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# Schedule



## Certificate of Conformity BAS No Ex 93C2235

### APPARATUS

A High Intensity Visilarm Type VA2 is designed to provide a visual warning in response to a d.c input signal. Connection of a 24V d.c. nominal signal causes a Xenon tube to emit bright flashes at regular intervals.

The flash tube is encapsulated using a clear epoxy resin within a clear perspex tube at least 10mm thick and mounted on a rectangular plastic enclosure. Electronic circuitry within the plastic enclosure is totally encapsulated in polymer, and the flash tube is sealed into the perspex tube with hard setting epoxy resin. Connections are via a plug and socket and the plug is fitted with a retaining screw to prevent inadvertent disconnection.

#### Input Parameters

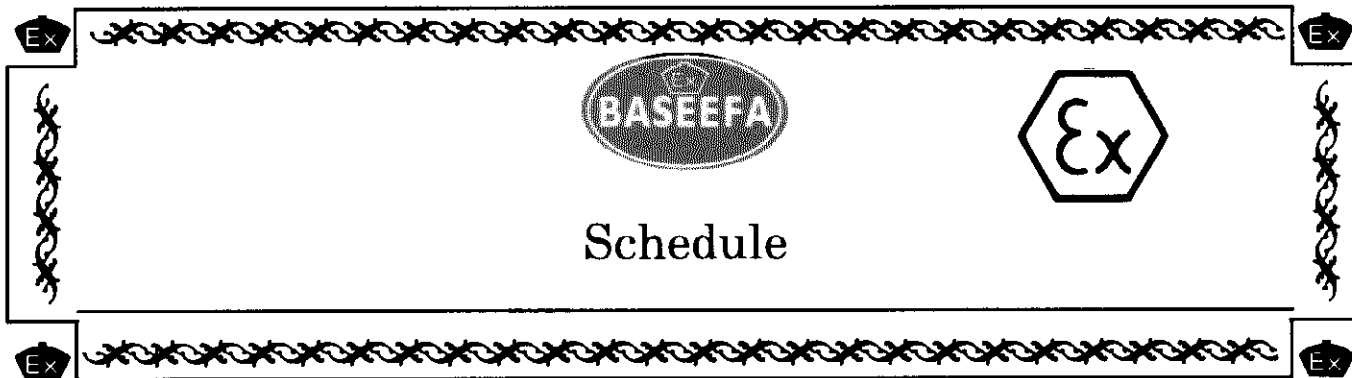
- $U_{max:in} = 28V$                        $I_{max:in} = 320mA$
- $W_{max:in} = 0.82W$
- $C_{eq} = 0$                                        $L_{eq} = 0$

### DRAWINGS

Number	Issue	Date	Description
STL 1095	7	29.6.93	Circuit Diagram
STL 1247	4	28.6.93	Static Warning Label
STL 1246 Sht 1	7	29.6.93	General Assembly
STL 1246 Sht 2	3	29.6.93	Component Layout
STL 1246 Sht 3	3	28.6.93	p.c.b. Track Layout
STL 1246 Sht 4	1	15.6.81	Certification Layout
STL 1246 Sht 5	1	8.7.93	Mounting Plate

### VARIATION ONE

To permit an alternative version of the Visilarm incorporating an integral cable which emerges from the base of the unit. The unit formed by this variation is a Visilarm Type VA2B.



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These modifications to the design do not affect the original safety assessment, input parameters or the certification code.

**DRAWINGS**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
STL 2030 Sht 1	3	29.6.93	General Assembly
STL 2030 Sht 2	3	29.6.93	Cable Entry Details
STL 2030 Sht 3	2	29.6.93	Certification Label
STL 2032	1	28.7.92	Cable Support Bush



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## Certificate of Conformity Variation

THIS IS TO CERTIFY THAT CERTIFICATE BAS NO Ex 93C2235

Held by **WEIDMULLER (KLIPPON MICROSYSTEMS) LIMITED**  
**SAFETY TECHNOLOGY PRODUCTS**  
of West Maling, Kent, ME19 6EX

for the **HIGH INTENSITY VISILARM TYPE VA2**

is hereby extended to apply to apparatus designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having the variations specified in the attached Schedule.

### VARIATION TWO

To permit unspecified text in copper or in ink, to be added in a defined area of the printed circuit board. Existing segregation distances and intrinsic safety assessment are not affected by this change.

### DRAWINGS

Number	Issue	Date	Description
STL 1246 Sheet 3	4	24.12.93	PCB Tracking

File No: EECS 0932/02/006

CERTIFICATE BAS NO Ex 93C2235/1

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**I M CLEARE**  
**DIRECTOR EECS**  
16 March 1994



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom  
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## Certificate of Conformity Variation

THIS IS TO CERTIFY THAT CERTIFICATE BAS NO Ex 93C2235

Held by WEIDMULLER (KLIPPON MICROSYSTEMS) LTD  
SAFETY TECHNOLOGY PRODUCTS  
of West Malling, Kent, ME19 6EX

for the HIGH INTENSITY VISILARM TYPE VA2

is hereby extended to apply to apparatus designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having the variations specified in the following Schedule.

A copy of this Supplementary Certificate shall be attached to the original Certificate.

**VARIATION THREE** To permit clarification of the rating of safety components at +55°C on the documentation and an extension of the permitted ambient temperature range to  $T_{amb} = -20^{\circ}\text{C}$  to +55°C. The certification code remains unchanged at EEx ia IIC T6.

### DRAWINGS

Number	Issue	Date	Description
STL 1095	8	6.7.94	Circuit diagram
STL 1246	8	20.7.94	General Assembly VA2
STL 2030	4	20.7.94	General Assembly VA2B

File No: EECS 0932/02/006



CERTIFICATE BAS NO Ex 93C2235/2

I M CLEARE  
DIRECTOR EECS  
1 September 1994

SHM

This certificate is issued under NACCB accreditation No. 020



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