



British Approvals Service for Electrical
Equipment in Flammable Atmospheres

CERTIFICATE OF ASSURANCE

No Ex 92Y4357

Issued to LINDEN INSTRUMENTS LTD

of Darlington, DL1 2UH

THIS IS TO CERTIFY THAT A DAG 134 XENON BEACON

designed and constructed in accordance with the specification set out in the Schedule and the documents therein referred to, including any variation specified in the Schedule, complies with the requirements of BS 6941 : 1988 for Group II and Temperature Class T6 in an ambient temperature of 60°C.

This Certificate is granted subject to the general conditions of the Electrical Equipment Certification Service and any additional conditions as may be prescribed.

This Certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

Code: Ex N II T6
(Tamb = 60°C)

File No: EECS 1577/02/005

Report No: ERA Ref 3627/564
dated: August 1992

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3855/51-C

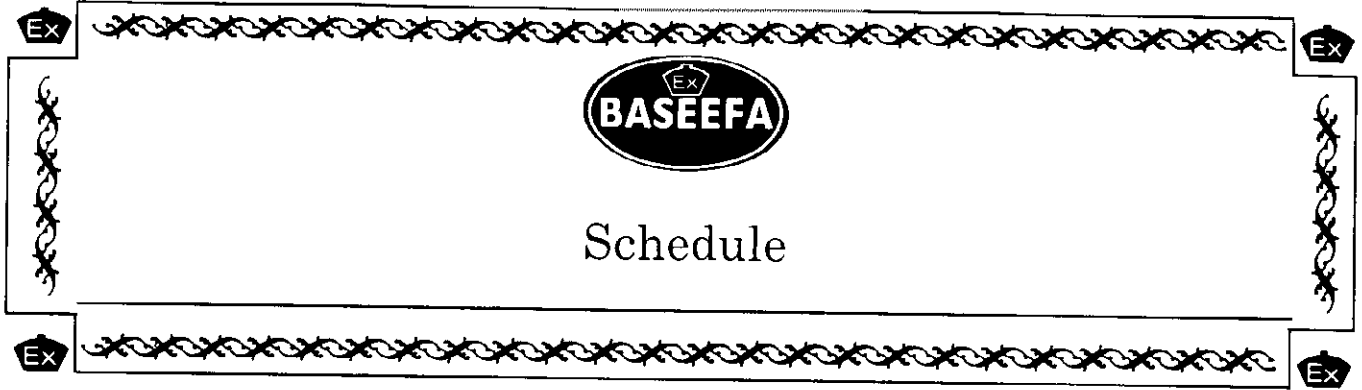


I M CLEARE
DIRECTOR EECS
dated 21 August 1992



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





Certificate of Assurance No Ex 92Y4357 dated 21 August 1992

APPARATUS

A DAG 134 XENON BEACON is designed to produce a visual indication.

The beacon comprises a plastics enclosure with an integral terminal compartment containing a potted electronics circuit with an integral xenon flash tube encapsulated in methyl methacrylate (Perspex).

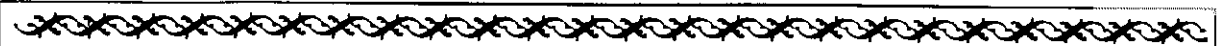
The beacon may produce a one, two or three flash pattern.

The beacon is energised at a maximum voltage of 30 V dc/rms.

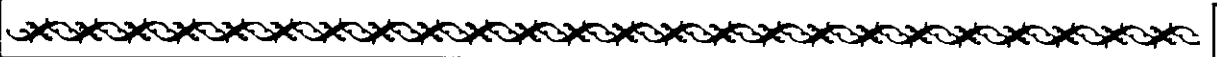
The terminal compartment provides a Degree of Protection of at least IP54.

DRAWINGS

Number	Issue	Date	Description
C1915*	C	-7.92	General Arrangement
C1923	B	-7.92	Final Assembly
DAG134	B	27.7.92	Parts List DAG 134
C1878*	F	27.4.92	Enclosure Lid Machining
D1922*	B	24.2.92	Interface Board Assembly
D1925*	B	5.5.92	Interface PCB Artwork
C1888*			
Shts 1 to 5	H	-7.92	Main PCB
C1972	B	24.7.92	Circuit Diagram DAG 134
DG-254	C	20.7.92	Parts List DAG 134
C1975*	B	-7.92	Xenon Tube Encapsulated Assembly
C1896 CMP*	C	-3.92	Xenon Tube Assembly



Schedule



Certificate of Assurance No Ex 92Y4357 dated 21 August 1992

Number	Issue	Date	Description
DG-248*	D	27.7.92	Parts List Xenon Tube Assembly
D1896*			
TOP	B	6.8.91	Xenon Tube Board Artwork
BOT	B	6.8.91	Xenon Tube Board Artwork
D1895*	C	17.3.92	Inductor
D1697*	C	3.9.91	Pulse Transformer
C1976	A	29.7.92	Labels

* Drawings are common to and held with Certificate BAS No Ex 92C8354.



British Approvals Service for Electrical
Equipment in Flammable Atmospheres

Certificate of Assurance Variation

THIS IS TO CERTIFY THAT APPARATUS CERTIFICATE NO Ex 92Y4357

Held by LINDEN INSTRUMENTS LTD
of Darlington, DL1 2UH

for the DAG134 XENON BEACON

is hereby extended to apply to the Apparatus conforming to the specification set out in the Schedule of the said Certificate but having any variation specified in the attached Schedule.

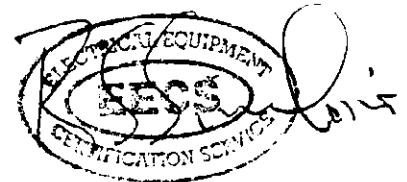
A copy of this Supplementary Certificate shall be attached to the original certificate.

File No: EECS 1577/02/005

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CERTIFICATE NO: Ex 92Y4357/1

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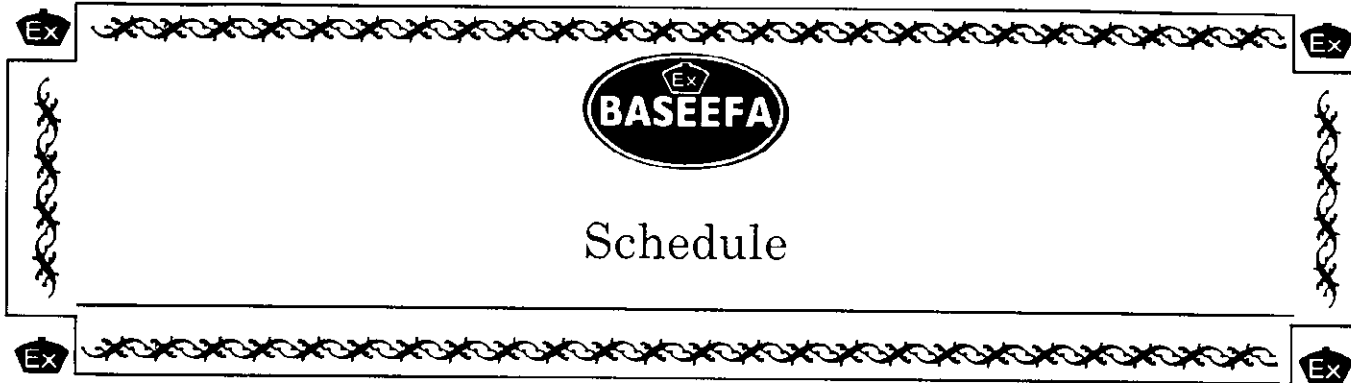
I M CLEARE
DIRECTOR EECS
10 June 1994

This certificate is issued under NACCB accreditation No. 020



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





Certificate of Assurance No Ex 92Y4357/1

VARIATION ONE

To permit the following changes to the DAG134 XENON BEACON:-

- a) To permit the omission of the inner encapsulant from the Xenon Tube. The Xenon Tube is now moulded directly into a clear Methyl Methacrylate (Perspex), as a solid part, the only void being within the Xenon Tube.
- b) To permit the optional addition of a colour pigment, to be added to the Methyl Methacrylate during the moulding process.

These changes do not affect the safety assessment of the units.

DRAWINGS

Number	Issue	Date	Description
*C1975/C	C	6/94	Xenon Tube Assembly

*This drawing is held with Ex 92C8354.



British Approvals Service for Electrical
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Certificate of Assurance Variation

THIS IS TO CERTIFY THAT APPARATUS CERTIFICATE NO Ex 92Y4357

Held by LINDEN INSTRUMENTS LTD
of Darlington, DL1 2UH

for the DAG 134 XENON BEACON

is hereby extended to apply to the Apparatus conforming to the specification set out in the Schedule of the said Certificate but having any variation specified in the attached Schedule.

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

File No: EECS 1577/02/005

Report No: 93(C)9283
dated 13 July 1994



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CERTIFICATE NO: Ex 92Y4357/2

SM

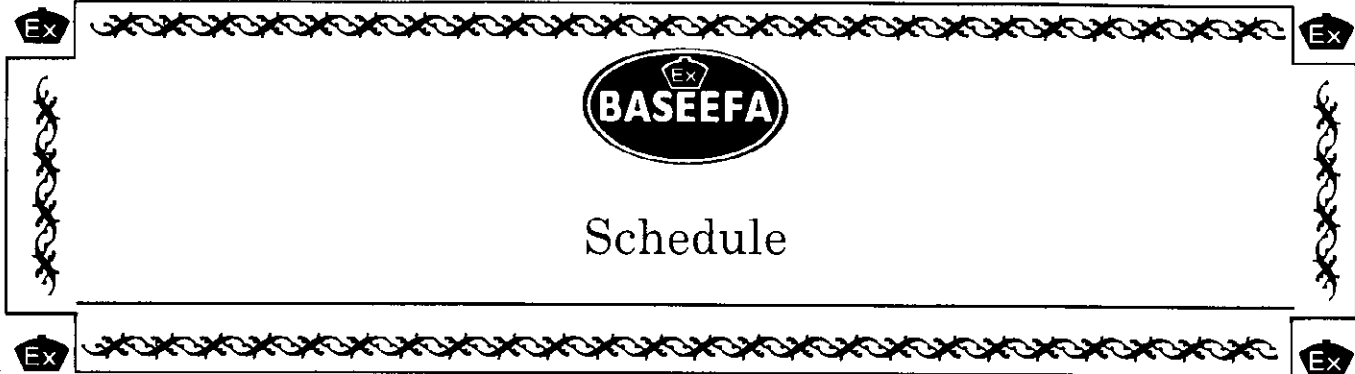
I M CLEARE
DIRECTOR EECS
4 August 1994

This certificate is issued under NACCB accreditation No. 020



Electrical Equipment Certification Service
Health and Safety Executive
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Certificate of Assurance No Ex 92Y4357/2

VARIATION TWO

To permit the following changes to the DAG 134 XENON BEACON:-

- a) The circuit to be redrawn on a CAD system which involves component redesignations.
- b) To permit changes to some Safety Component values and ratings.
- c) To permit changes to the Logic and Trigger control circuit.
- d) To permit a new printed circuit board layout and a change in the level of the encapsulant within the electronics enclosure.
- e) To permit the omission of the inner encapsulant from the Xenon Tube. The Xenon Tube is now moulded directly into a clear Methyl Methacrilate (Perspex), as a solid part, the only void being within the Xenon Tube.
- f) To permit the optional addition of a colour pigment, to be added to the Methyl Methacrilate during the moulding process.



Schedule

Certificate of Assurance No Ex 92Y4357/2

DRAWINGS

Number	Sheet	Issue	Date	Description
+ DA 134/0081/EB		1	8/7/94	Certification Label DAF & DAG
DA 134/0257/EC		1	11/7/94	DAG 134 Parts List Main Board
DA 134/0250/EC		1	18/7/94	DAG 134 Circuit
DA 134/0012/EC	2	O	17/08/93	DAG 134 Terminal Wiring Diagram
* DA 134/0213/EC	-	2	11/7/94	DAC 134 Silk Screen Main board
* DA 134/0211/EB	1	2	11/7/94	DAC 134 Main board Component Side Track
* DA 134/0211/EB	2	2	11/7/94	DAC 134 Main board Solder Side Track
* DA 134/0207/EC		1	11/7/94	DA 134 Xenon Tube Parts List
* DA 134/0200/EC		O	23/04/93	DA 134 Xenon Tube Circuit
* DA 134/0203/EB		2	11/7/94	DA 134 Xenon Tube Silk Screen
* DA 134/0201/EB	1	2	11/7/94	DA 134 Xenon Tube Comp Side Track
* DA 134/0201/EB	2	2	11/7/94	DA 134 Xenon Tube Solder Side Track
* DA 134/0204/EB		1	03/11/93	DA 134 Xenon Tube Board
* DA 134/0085/EC		O	17/08/93	DA 134 Xenon Beacon Transformer
* DA 134/0214/EB		1	03/11/93	DA 134 Xenon Beacon Main Board
* DA 134/0051/EC		O	03/06/94	DA 134 Flash Tube Assembly
* DA 134/0001/EC		1	8/7/94	DA 134 General Arrangement
* DA 134/0084/EC		1	8/7/94	Inverter Transformer

*These drawings are held with BASEEFA Certificate No Ex 92C8354

+ This drawing is held with BASEEFA Certificate No Ex 92Y4356