



1 **EC- TYPE EXAMINATION CERTIFICATE**

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

3 EC-Type Examination Certificate Number : **BASOIA TEX1281**

4 Equipment or Protective System: **PHOTOELECTRIC SMOKE DETECTOR TYPE SLR-E-IS**

5 Manufacturer: **HOCHIKI EUROPE**

6 Address: **Gillingham, Kent, ME8 OSA**

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 The Electrical Equipment Certification Service, notified body number 600 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 N°

01(C)0665 dated 29 April 2002

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 EN 50020: 1994 EN 50284: 1999
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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

12 The marking of the equipment or protective system shall include the following:-

 **II 1 G EEx ia DC T5 (-20°C < T, <+55°C)**

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

File No: EECS 3642/02/003

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
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**I.M. CLEARE
DIRECTOR
9 May 2002**



13 Schedule

14 EC-TYPE EXAMINATION CERTIFICATE N° BASOIATEXI281

15 Description of Equipment or Protective System

The Photoelectric Smoke Detector Type SLR-E-IS is designed to detect combustion products in the air within a hazardous area and to provide an alarm indication on a locally mounted LED and also to safe area apparatus via a suitable interface.

The Photoelectric Smoke Detector Type SLR-E-IS comprises electronic surface mounted components, a number of wire ended components including LEDs and a photo detector mounted on a printed circuit board. The circuit board is encapsulated and mounted within a plastic enclosure which includes a perforated metal sheet to permit access for the combustion products. The Smoke Detector sub assembly is mounted on a Base Unit Type YBN-R/4IS which incorporates the field terminals. The enclosure provides a degree of protection of at least IP20 to the electrical circuit and the apparatus is capable of withstanding a 500V test to earth. The enclosure may present a static hazard but is fitted with a suitable warning label. Cable entry to the field terminals is from the base of the enclosure.

Supply Input Terminals 2 and 6 OR Loop Output Terminals 1 and 5
AND Remote Indicator Alarm Terminals 1 and 4

$U_i = 30V$	$U_o = U_i$
$I_i = 200mA$	$I_o = I_i$
$P_i = 1W$	$P_o = P_i$
$C_i = 0$	$C_i = 0$
$L_i = 0$	$L_i = 0$

Note:- Terminals 1 & 2 are directly interconnected only when the smoke detector is fitted to the Base Unit and Terminals 6 & 5 are directly interconnected within the Base Unit. All inputs /outputs are derived from the common source.

Terminal 3 may be used for terminating cable screens.

This Photoelectric Smoke Detector Type SLR-E-IS may be used as a direct replacement for the Photoelectric Smoke Detector Type SLR-E-IS BASEEF A Certificate No Ex 98D2098.

16 Report No.

OI(C)O665

17 Special Conditions for Safe Use

None



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BASOIA TEX1281

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Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No. 0I(C)0665 Clause 3.1.1.3
1.2.2	Components for incorporation or replacement	Report No. 0I(C)0665 Clause 3.1.2.2
1.2.5	Additional means of protection	Report No. 0I(C)0665 Clause 3.1.2.5
1.2.7	Protection against other hazards	Report No. 0I(C)0665 Clause 3.1.2.7
1.4.2	Withstanding attack by aggressive substances	Report No. 0I(C)0665 Clause 3.1.4.2

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DRAWINGS

Number	Sheet	Issue	Date	Description
1212200-00-3 3/5	3	3	17/04/2002	Circuit
1212200-00-3 1/5	1	3	15/04/2002	General Assembly
1212200-00-3 2/5	2	3	15/04/2002	General Assembly section
1212200-00-3 5/5	5	3	15/04/2002	Overall Assembly
1212200-00	1&2	1	21/07/1998	General Assembly Parts List
2-1-2-074-1 1/1		1	30/04/1998	Component Layout
2-1-2-074	1 to 3	4	22/06/2001	p.c.b. Assembly Parts List
2-2-9-038-4 1/9	1 to 9	4	19/02/2002	p.c.b. Drawings
2-3-2-097-3	1	3	21/06/2001	Encapsulation
2-3-2-087-4 1/2	1	4	15/04/2002	Cover
2-3-2-087-4 2/2	2	4	15/04/2002	Marking detail
2-1-3-024-1	1	1	22/06/2001	EMC screening modification
2-3-0-297-2	1	2	15/04/2002	Date/CE/Serial No. Label
1226060-00		1	20/07/1998	BASE UNIT YBN-R/4IS PARTS LIST
1226060-00-1 1/2		1	21/07/1998	BASE UNIT YBN-R/4IS GA
2-3-0-315-1 1/1		1	21/07/1998	BASE UNIT YBN-R/4IS LABEL

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