

UK-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

UK-Type Examination Certificate Number: **BAS21UKEX0336X Issue 0**

Product: **Heat Detector Type DCD-1E-IS**

Manufacturer: **Hochiki Europe**

Address: **Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA**

This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the name change to SGS United Kingdom Ltd. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the Schedule.

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 1G Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)**

SGS Customer Reference No. **3642**

Project File No. **21/0129**

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS United Kingdom Limited

13 **Schedule**

14 **Certificate Number BAS21UKEX0338X – Issue 0**

15 **Description of Product**

The Heat Detector Type DCD-1E-IS is designed to detect combustion products in the air within a hazardous area and provides an alarm indication on a locally mounted LED and to equipment located in the non-hazardous area via a suitable interface.

The DCD-1E-IS comprises various components, including LEDs and a bead thermistor, mounted on a printed circuit board (PCB) which is encapsulated and housed within a plastic enclosure. The heat detector sub-assembly is mounted on a Base Unit Type YBN-R/4IS which incorporates the field terminals. The enclosure provides the electrical circuit with a degree of protection of at least IP20 and the equipment is capable of withstanding a 500V test to earth. Cable entry to the field terminals is from the base of the enclosure.

This certificate covers the following variants:

DCD-1E-IS

DCD-1E-IS (WHT)

Input / output parameters

Both variants

Supply Input Terminals 2 & 6 or Loop Output Terminals 1 & 5 and Remote Indicator Alarm Terminals 1 & 4

$$\begin{array}{llllll} U_i = 30V & I_i = 200mA & P_i = 1W & C_i = 0 & L_i = 0 \\ U = U_i & I_o = I_i & P_o = P_i & P_o = P_i & P_o = P_i \\ o \end{array}$$

NOTE: Terminals 1 & 2 are directly interconnected when the 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.

16 **Report Number**

See Item 20 – Certificate History

17 **Specific Conditions of Use**

1. The plastic enclosure may present a potential electrostatic ignition hazard; the equipment must not be rubbed or cleaned with a dry cloth or solvents or installed within a dust laden airflow.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
13	LVD type requirements	Manufacturer responsibility
14	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
21 (1)	External effects	User/Installer responsibility
21 (2)	Aggressive substances, etc.	User/Installer responsibility



19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
2-3-0-421	1 of 1	7	09/21	DCD-1E-IS (WHT) Outer Cover Printing
2-3-0-422	1 of 1	13	07/21	DCD-1E-IS Product Label
2-3-0-2629	1 of 1	2	11/21	DCD-1E-IS Outer Cover Printing

For all other drawings, see BAS01ATEX1021X.

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0336X Issue 0	14 August 2023	Original issue of the Prime Certificate. Report Number: GB/SGS/ExTR23.0083/00 Project Number: 21/0129

For drawings applicable to each issue, see original of that issue.