

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa03ATEX0428X – Issue 3**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type HD1 Heat Detector Unit**

5 Manufacturer: **Eaton MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB United Kingdom**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa03ATEX0428X** to apply to product 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.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

EN IEC 60079-0: 2018 EN IEC 60079-7: 2015 + A1: 2018 IEC 60079-33: 2012 Ed. 1

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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

12 The marking of the product shall include the following:

**⊕ II 2 G Ex eb sb IIC T6 Gb (Tamb -20°C to +55°C) or
Ex eb mb sb IIC T4 Gb (Tamb -20°C to +55°C)**

SGS Fimko Oy Customer Reference No. **0676**

Project File No. **23/0555**

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Schedule

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Certificate Number Baseefa03ATEX0428 - Issue 3

15 Description of Product

A Type HD1 Heat Detector Unit comprises an MEDC Type JB10 junction box afforded Baseefa12ATEX0039X with a stainless-steel heat detector module fitted into a threaded cable entry hole, via a thread adaptor certified as equipment (not a component), in either one of the sides or the centre of the cover of the junction box.

The Heat Detector comprises a welded tube fitted at one end with a glass to metal seal which provides the electrical leads through to the switching contacts contained within the detector. The outside of the glass to metal seal is encapsulated using a potting compound.

The Heat Detector can be used at up to the following voltage and current ratings:

Voltage (V)	Current (A)
125 ac	5
125 dc	0.5
48 dc	1
24 dc	2

The Heat Detector may optionally be fitted with a potted resistor unit afforded IECEx BAS 13.0012U. For this arrangement, the marking for the equipment is modified to:

Ex eb mb sb IIC T4 Gb (-20°C to +55°C)

16 Report Number

See Certificate History

17 Specific Conditions of Use

For HD1R units only:

1. The electrical supply to the encapsulated resistor is limited to a maximum of 1.2W
2. Units fitted with the encapsulated resistor shall be protected by a fuse rated for a prospective short circuit current of at least 1500A.

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, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD Type requirements
1.3.1	Hazards arising from different ignition sources
2.2.1.1	Prevention of ignition sources
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
196-187	1 of 1	C	19-07-24	HD1 Ex e heat detector ATEX/IECEX certification G.A.
465-164	1 of 1	C	26-06-24	IECEX / ATEX Certification Details Heat Detector
465-166	1 of 1	B	19/07/24	IECEX / ATEX certification G.A. heat detector type HD1 with potted resistor version

The above drawings are common to IECEX SGS 24.0035X and Baseefa03ATEX0428X

Current drawings which remain unaffected by this issue:

None. The above drawings replace all those previously detailed.

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0428	17 July 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN50014:1997 + amd. 1 & 2, EN50019:2000 and EN50028:1987 + amd 1 is documented in Test Report No. 03(C)0548.
Baseefa03ATEX0428/1	10 November 2009	This supplement permits alternative encapsulants in the detector assembly, and the addition of a potted resistor unit as per Baseefa02ATEX2105X. Then the resistor unit is fitted the Ex coding is modified to EEx em II T4. No report, Project number 11/1013.
Baseefa03ATEX0428/2	31 May 2011	This supplement permits the use of an alternative thread adaptor. No report, project number 12/0613.
Baseefa03ATEX0428X Issue 3	25 September 2024	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN IEC 60079-0: 2018, EN IEC 60079-7: 2015 + A1: 2018 and IEC 60079-33: 2012 Ed. 1 including the revision of the equipment marking in accordance with these standards and the inclusion of IECEX certification details. The associated assessment is documented in Test Report GB/BAS/ExTR24.0112/00, project number 23/0555.

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