Confirmation of Product Type Approval

Company Name: EATON MEDC LIMITED

Address: UNIT B, SUTTON PARKWAYODDICROFT LANE NG17 5FB United Kingdom

Product: Sensor, Heat Detector

Model(s): HD1

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2384679-PDA	18-APR-2023	17-APR-2028
Manufacturing Assessment (MA)	21-4809673	09-JUN-2021	08-JUN-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Use on ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description
The intrinsically safe HD1 Heat Detector is a thermal switch which operates at a pre-determined temperature (normally open or normally closed volt free) contained in a metallic tube which is affixed to a GRP junction box.

Ratings
Voltage: 30 V

I= 300mA

P= 1.2 W

Service Restrictions
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

ATEX certified equipment is not to be installed in hazardous areas on U.S. Flagged Vessels, unless it

can be proven to have been tested to the IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG MI Notice 01-12 (February 7, 2012).

Notes, Drawings and Documentation
Drawing No. 03ATEX0427-3 EXI, EC-Type Examination Certificate 08 Mar 2013, Revision: 3, Pages: 3

Drawing No. 102148829LHD-001, Cooper MEDC development report_2, Revision: -, Pages: -

Drawing No. 196-219A, HD1 Exi Heat Detector ATEX/IECEX Certification GA, Revision: A, Pages: 1

Drawing No. 196-220A, HD1 Ex ia Heat Detector ATEX and IECEX Certification Label, Revision: A, Pages: 1

Drawing No. 196-223A, HD1R Exia Heat Detector ATEX and IECEX Certification Label, Revision: A, Pages: 1

Drawing No. 196-225A, HD1 Ex ia Certified Wiring Diagram ATEX and IECEx, Revision: A, Pages: 1

Drawing No. 465-108, ATEX Certification Details Heat Detector - Type HD1 EXD IIB Version, Revision: B, Pages: 1

Drawing No. ExTR13, IECEx Test Report, Revision: -, Pages: 33

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 17/Apr/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
2023 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3 & A4, 4-7-3/11.3.3(a) (i)&(iii), 4-8-4/27.5.1,

2023 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2 & A3, 4-3-3/9.1.1, 4-3-3/9.1.2, 4-3-3/9.1.3, 6-1-1/9, 6-1-1/13,

2023 Facilities on Offshore Installations Rules: 1-1-4/9.7, 1-1-A2 & A3, 3-6/15.1

2023 Steel Vessels for Service on Rivers and Intracoastal Waterways Rules: 1-1-4/7.7, 1-1-A3 & A4,

July 2022, Bulk Carriers for Service on the Great Lakes Rules: 1-1-4/7.7, 1-1-A3 & A4,

2023 High-Speed Craft: 1-1-4/11.9, 1-1-A2 & A3,

2023 Steel Barges Rules: 1-1-4/7.7, 1-1-A3 & A4,

International Standards
IEC 60079-0:2011 Ed.6, IEC 60079-11:2011 Ed.6

EU-MED Standards
NA

National Standards
NA

Government Standards

NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 19-Apr-2023 2:31

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.