DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00000DJ
Revision No:
1

This is to certify:

That the Fire Detector

with type designation(s)
ACC-ENM, ACC-ENM(WHT), ATJ-ENM, ATJ-ENM(WHT), ALN-ENM, ALN-ENM(WHT), CHQ-DIM2/M(SCI), CHQ-DRC2/M(SCI), CHQ-DSC2/M(SCI), CHQ-DZM/M(SCI), CHQ-DZM/M(SCI)-IS, CHQ-SIM/M, CHQ-SZM2/M(SCI), YBN-R/3(SCI)M, YBN-R/3M, YBN-R/3M(WHT), YBN-R/3(WHT)-SCI/M, MBB-1, MBB-2

Issued to
Hochiki Europe (UK) Ltd.
London, United Kingdom

is found to comply with
DNV GL rules for classification – Ships
IMO International Code for Fire Safety Systems (FSS Code) Chapter 9

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**B**
Humidity	**A**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to the Rules shall be provided upon installation on board.**

This Certificate is valid until **2025-02-19**.
Issued at **Hamburg** on **2020-02-20**

DNV GL local station: **Southampton**

Approval Engineer: **Heinz Scheffler**

for **DNV GL**
Digitally Signed By:
Papanuskas, Joannis

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-022209-2**
Certificate No: **TAA00000DJ**
Revision No: **1**

Product description

Analogue Addressable Heat Detector
ATJ-ENM: Combined Rate of Rise & Fixed Temperature Heat Detector
ATJ-ENM (WHT): Combined Rate of Rise & Fixed Temperature Heat Detector (White)
ACC-ENM: Temperature Heat Multi Detector
ACC-ENM (WHT): Temperature Heat Multi Detector (White)

Analogue Addressable Optical Smoke Detector
ACC-ENM: Optical Smoke Multi-Detector
ACC-ENM (WHT): Optical Smoke Multi-Detector (White)
ALN-ENM: Optical Smoke Detector
ALN-ENM (WHT): Optical Smoke Detector ((White)

Compatible Base for ATJ-ENM, ACC-ENM, ACC-ENM and ALN-ENM
YBN-R/3M: Electronics Free Mounting Base
YBN-R/3M(WHT): Electronics Free Mounting Base (White)
MBB-1: Marine Back Box
MBB-2: Marine Back Box
MBB-1(WHT): Marine Back Box (White)
MBB-2(WHT): Marine Back Box (White)

Short circuit isolator Base
YBN-R/3(SCI)M: Addressable Short Circuit Isolator Base
YBN-R/3(WHT) SCIM: Addressable Short Circuit Isolator Base (White)

Analogue Addressable Input / Output Device
CHQ-DRC2/M(SCI): Analogue Dual Relay Controller (with Isolator)
CHQ-DIM2/M(SCI): Analogue Dual Input Module (with Isolator)
CHQ-DSC2/M(SCI): Analogue Dual Sounder Controller (with Isolator)
CHQ-SZM2/M(SCI): Analogue Single Zone Module (with Isolator)
CHQ-DZM/M(SCI): Analogue Dual Zone Monitor (with Isolator)
CHQ-DZM/M(SCI)-IS: I.S. Compatible Dual Zone Monitor (with Isolator)
CHQ-SIM/M: Single Input Module
CHQ-SZM2/M(SCI): Single Zone Monitor (with Isolator)

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body

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Type Approval documentation

Test Reports: 103925944LHD-001a, TE282478, P105185, TE-P105376-1001, SW-P109335-1001-A, TE270507, TE270507-SW, TE280668, TE270508, TE270508-SW, TE277796, 277796-SW-B, TE277796-SW-A, 103925944LHD-001b, TE289409, P101084-1001, 103925944LHD-001c, 101978111LHD-002c, TE251144, TE251144-SW, TE283696, TE-P106554-1001, 102287604LHD-012, 102287604LHD-002c, 103925944LHD-001j, TE 235000, TE-P101540-1001, SW-P101540-1001, TE-P107173-1001, TE 246037, 102287604LHD-013, 102287604LHD-002d, 103925944LHD-001e, TE243127, 101978111LHD-001, 101978111LHD-0021, 103925944LHD-001f, TE243066, TE243066-SW, TE268254, TE 268254-SW, TE-P104358-1001, 101978111LHD-013, 101978111LHD-002b, 103925944LHD-001g, P100108-1001, P100108-1001-SW, TE277796-SW-A, TE277796-SW-B, 101978111LHD-002c.

Documents:
General Assembly & Circuit Diagrams:
1410110-00, 1415100-00, 7-0-000-3192-721, HA-01-567, HA-08-116, 1433770-00, 1433750-00, 1433870-00, 1433450-00, 1433460-00, 1433640-00, 1433820-00, 1426260-00, 1670690-00, 2-3-2-107, 1670690-00, 1426250-00, 1226370-00.
Installation Instructions:
2-3-0-246, 2-3-0-1731, 2-3-0-1730, 2-3-0-1140, 2-3-0-1499,
Product Specification (Datasheets):
ACC-ENM, ALN-ENM, ATJ-ENM, CHQ-DIM2/M(SCI), CHQ-DRC2/M(SCI), CHQ-DSC2/M(SCI), CHQ-DZM/M(SCI), CHQ-DZM/M(SCI)-IS, CHQ-SZM2/M(SCI), YBN-R3/M(SCI), YBN-R/3M, MBB-2,

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.
EN 54-5:2000 incl. A1:2002, EN 54-7 (2000) incl. A1+A2, EN 54-17/18 (2005) including AC(2007), IEC 60092-504 (2016)

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE