

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive 2014/93/EU. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:

That the Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: Input/output devices

with type designation(s)

CHQ-DRC/M(SCI), CHQ-DRC2/M(SCI), CHQ-DIM/M(SCI), CHQ-DIM2/M(SCI), CHQ-DSC/M(SCI), CHQ-DSC2/M(SCI), CHQ-SZM/M(SCI), CHQ-SZM2/M(SCI), CHQ-DZM/M(SCI), CHQ-DZM/M(SCI)-IS, CHQ-SIM/M

Issued to

**Hochiki Europe (UK) Ltd.
Gillingham KE, United Kingdom**

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/3.51h and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/7 & X/3, 2000 HSC Code 7, FSS Code 9 and IMO MSC.1/Circ.1242

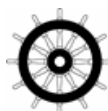
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2020-03-29**.

Issued at **Hamburg** on **2016-04-06**

DNV GL local station:
Southampton

Approval Engineer:
Heinz Scheffler



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

Product description

Input / Output Device

CHQ-DRC/M(SCI) / -DRC2/M(SCI): Analogue Dual Relay Controller (with Isolator)

CHQ-DIM/M(SCI) / -DIM2/M(SCI): Analogue Dual Input Module (with Isolator)

CHQ-DSC/M(SCI) / -DSC2/M(SCI): Analogue Dual Sounder Controller (with Isolator)

CHQ-SZM/M(SCI) / -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 (build in equipment)

Application/Limitation

CHQ-DZM/M(SCI)-IS should only be installed in the safe area.

The equipment are found to comply with following location/application dependent requirements (for definition of each of the location classes, see below the table):

MODEL	TEMPERATURE	VIBRATION	EMC	ENCLOSURE
CHQ-DRC/2/M(SCI)	A	A	B	B
CHQ-DIM/2/M(SCI)	A	A	B	B
CHQ-DSC/2/M(SCI)	A	A	B	B
CHQ-SZM/2/M(SCI)	A	A	B	B
CHQ-DZM/M(SCI)	A	A	B	B
CHQ-DZM/M(SCI)-IS	A	A	B	B
CHQ-SIM/M	A	A	B	build in equipment

Definition of the location classes with reference to relevant standards:

- Temperature: A Location (+5°C to +55°C) (ref. IEC 60092-504 (2001) table 1 item 6-7)
- Vibration: A (ref. IEC 60092-504 (2001) table 1 item 10)
- EMC: B Bridge and open deck zone (ref. IEC 60092-504 (2001) table 1 item 19-20)
- Enclosure (Salt Mist): B IP65 only with Back-Box (ref. IEC 60092-504 (2001) table 1 item 9)

Type Examination documentation

Test report : TE 235000, TE 235000-1, 101978111LHD-013, 101978111LHD-002b, TE243066-SW, TE243066, TE243127-Revision 2, 101978111LHD-011, 101978111LHD-002a, 243127-SW ; TE283696; TE283696; TE 251144; TE 251144-SW; 1002287604LHD-011; 1002287604LHD-012; 1002287604LHD-013; 1002287604LHD-014; 102287604LHD-002a; 102287604LHD-002b; 102287604LHD-002c; 102287604LHD-002c; SW-P101540-1001; TE-P101540-1001; TE-P100108-1001; TE-P100108-1001-SW

Documents: CHQ-SZM-M(SCI) Document List ; CHQ-DIM-M(SCI) Document List, CHQ-DSC-M(SCI) Document List ; CHQ-DRC-M(SCI) Document List ; 1433450-00 CHQ-DZM(SCI) ASSEMBLY DRAWING & CIRCUIT DIAGRAM, 1433460-00 CHQ-DZM(SCI)-IS ASSEMBLY DRAWING & CIRCUIT DIAGRAM, 1433640-00 CHQ-SIM ASSEMBLY DRAWING ; 2-3-0-1730/ISS3/MAR16 CHQ Output MODULES INSTALLATION INSTRUCTIONS; 2-3-0-1731/ISS3/MAR16 CHQ Input MODULES INSTALLATION INSTRUCTIONS; QCF136 Component List CHQ-SZM2(SCI) / CHQ-DSC2(SCI) / CHQ-DIM2(SCI) / List CHQ-DRC2(SCI)

Tests carried out

Job Id: **344.1-005369-1**
Certificate No: **MEDB00000YN**

The relevant tests have been carried out according to the following standards:
EN 54-18 (2005) including AC(2007), IEC 60092-504 (2001) including IEC 60092- 504 Corrigendum 1 (2011), IEC 60533 (1999). Additional Standards EN 54-17 (2007) including AC(2007)

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name
- Type designation
- Mark of Conformity (see below)

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.