



[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B: EU-TYPE EXAMINATION

[3] EU-type Examination Certificate number: **IMQ 16 ATEX 008 X**

[4] PRODUCT: **Smoke and heat detector**

TYPE/SERIES: **CS-PH Ex ; CD-PH Ex ia**

[5] MANUFACTURER: **Consilium Marine & Safety AB**

[6] ADDRESS: **Box 8763, Salsmästaregatan 21 – SE-402 76 Gothenburg - Sweden**

[7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, 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 equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in Report No.: **AT23-0091445-01**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

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

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe 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 equipment or protective system shall include the following:

 **II 1G Ex ia IIC T5 Ga**

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

FIRST ISSUE 2016/02/29

CURRENT ISSUE 2023/09/26

PREVIOUS ISSUE 2022/12/22

EXPIRING DATE 2033/09/25

B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR - MANAGER

This Certificate may only be reproduced in its entirety and without any change. It is subject to the general rules for assessing conformity to community directives for which IMQ operates as notified body n°. 0051 and to the special requirements for Directive 2014/34/EU (ATEX) "Equipment and protective systems for potentially explosive atmospheres" annex III - MODULE B – EU Type-examination.



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 008 X**

[15] **Description of product:**

CS-PH Ex and **CD-PH Ex ia** are intrinsically safe addressable combined optical smoke and heat detectors. The detector is equipped with two LED indicators giving clear visibility of the red local alarm indication

[15.1] **Models/Series Identification:** CS-PH Ex, CD-PH Ex ia

[15.2] **Ratings:** -

[15.3] **Safety Ratings:**

U_i = 28 VDC
I_i = 93 mA
P_i = 653 mW
C_i = 532 pF
L_i = negligible

[15.4] **Ambient temperature and temperature classes:**

Ambient temperature: -40 °C ÷ +70 °C
Temperature class: T5

[15.5] **Degree of protection (IP code):** IP44 (EN 60529)

[15.6] **Warnings:**

On the label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS"

[16] **Report:** AT23-0091445-01

[16.1] **Routine (factory) tests:**

The manufacturer shall carry out the routine test prescribed at clause 27 of the EN 60079-0

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 008 X**

[16.2] Conformity with the documentation:

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters,
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results

[16.3] Installation conditions:

Above referred equipment is foreseen to be installed in locations where there are environmental conditions as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals requires special considerations and additional measures by the side of installer or user. These should be specified to the manufacturer by the user.

It is not required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions. Installation of equipment has to proceed according to EN 60079-14.

Above referred equipment shall be supplied by associated apparatus certified according to EN 60079-0, EN 60079-11 and EN 60079-26, with the electrical characteristics reported in clause [15.3]

[17] Special Condition of use (X):

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

[18] Essential Health and safety Requirements:

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:
None

[19] Descriptive documents: DL-AT23-0091445-01, rev. 0

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 008 X**

[20] **Certification Validity Conditions:**

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file

[21] **Variations**

2021-05: Addition of different suppliers for an infallible resistor, not affecting intrinsic safety

2022-12: - Standard update
- PCBA revision for rerouting of tracks
- Introduction of new model **CD-PH Ex ia**

2023-09: Minor changes in product assembly structure, and introduction of alternative suppliers for some Ex-safety critical components, not affecting intrinsic safety