



[1] **TYPE EXAMINATION STATEMENT
CATEGORY 3 EQUIPMENT**

[2] **Equipment intended for use in potentially explosive atmospheres**

[3] Type Examination Statement number: **IMQ 22 ATEX 047 X**

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

TYPE/SERIES: **CD-PH Ex ic**

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

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

[7] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU with reference to the requirements covered by the standards below defined.

[8] Compliance with EHSRs given in the Directive 2014/34/EU, except for those listed at item 17 of the annex, has been assured by compliance with the requirements of the following standard:

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

[9] If the sign "X" is placed after the statement number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this statement

[10] This TYPE EXAMINATION STATEMENT relates only to the design and construction of the specified equipment. Further requirements of the Directive are **not covered** by this statement.

[11] The marking of the equipment shall include the following:

 **II 3G Ex ic IIB T5 Gc**

This document is composed of 4 pages including 1 annex

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**B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR – MANAGER**



PRD N° 005 B

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

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[14] **Description of product:**

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

[14.1] **Models/Series Identification:** CD-PH Ex ic

[14.2] **Ratings:** -

[14.3] **Safety Ratings:**

U_i = 28 VDC
I_i = 62 mA
P_i = 1,74 W
C_i = 178 pF
L_i = negligible

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

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

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

[14.6] **Warnings:**

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

[15] **Report:** AT23-0091437-01

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

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

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[15.2] **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

[15.3] **Installation conditions:**

The equipment is foreseen to be installed in locations where there are environmental conditions, as specified at clause 1 of EN 60079-0. Installation and use at environmental conditions outside of above-mentioned intervals request special considerations and additional measures by the side of installer or user.

Installation of equipment shall be done 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 [14.3]

[16] **Specific condition of use (X) / Schedule of limitations:**

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

[17] **Essential Health and safety Requirements:**

This Statement **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [8].

This Statement **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 to be fulfilled by manufacturer according to 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 [8], the following are considered relevant to this equipment, and conformity is demonstrated in the report:

None

[18] **Descriptive documents:** DL-AT23-0091437-01, rev. 0, dated 2023-07-04

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[19] **Certification Validity Conditions:**

This Statement is subject to general rules for the issuing of products type certificates and to special requirement for equipment intended for use in potentially explosive atmospheres.

This Statement is issued according to product certification system 1a of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production, and it does not permit the use of a mark of conformity. This statement does not replace the conformity assessment procedure, to be carried out by the Manufacturer, referred to in Annex VIII of Directive 2014/34/EU.

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[20] **Variations**

Issue 0: 2022, December

First issue

Issue 1: 2023, July

- update of PCBA introducing new PCB (AUSTIN) with entire circuitry changed from Level of Protection Ex ia to Level of Protection Ex ic, safety related components removed when not required and few components changed, and
- introduction of minor firmware and hardware changes not affecting intrinsic safety.