



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX IMQ 16.0004X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 3	<a href="#">Issue 2 (2022-12-22)</a>
Date of Issue:	2023-09-26		<a href="#">Issue 1 (2021-06-01)</a>
Applicant:	<b>Consilium Marine &amp; Safety AB</b> Salsmästaregatan 21 P.O. Box 8763 SE-402 76 Gothenburg <b>Sweden</b>		<a href="#">Issue 0 (2016-02-15)</a>
Equipment:	<b>Smoke and Heat Detector mod. CS-PH Ex ; CD-PH Ex ia</b>		
Optional accessory:			
Type of Protection:	<b>Ex ia</b>		
Marking:	Ex ia IIC T5 Ga		

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr. Mauro CASARI**

Position:

**IMQ ExCB Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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**20138 Milano**  
**Italy**





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Manufacturer: **Consilium Marine & Safety AB**  
Salsmästaregatan 21  
P.O. Box 8763  
SE-402 76 Gothenburg  
**Sweden**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IT/IMQ/ExTR16.0004/03](#)

Quality Assessment Report:

[IT/IMQ/QAR16.0001/07](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

CS-PH Ex and CD-PH Ex ia are physically identical (they are equipped with the same assembled circuit board and the same housing). The only differences are in the marking and the internal software.

Rated ambient temperature range: from -40°C to +70°C

Protection degree: IP44 according to IEC 60529

## Safety ratings:

Ui = 28VDC

Ii = 93 mA

Pi = 653 mW

Ci = 532 pF

Li = negligible

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### Issue 1

Addition of different suppliers for an infallible resistor, not affecting intrinsic safety.

### Issue 2

- Manufacturer applied for new edition 7 of IEC 60079-0
- update to revision A7 of CS-PH Ex PCBA (P/N PNR-000025) for design improvement
- Introduction of new model CD-PH Ex ia

### Issue 3

- Minor changes in product assembly structure
- Introduction of alternative suppliers for some Ex-safety critical components