



# TYPE EXAMINATION STATEMENT CATEGORY 3 EQUIPMENT

[1]

[2]

## Equipment intended for use in potentially explosive atmospheres

[3]

Type Examination Statement number: **IMQ 23 ATEX 008**

[4]

PRODUCT: **Ex Safety Barrier / Isolator**  
TYPE/SERIES: **CD-GI 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 (3) G [Ex ic Gc] IIB or  
II (3) G [Ex ic Gc] IIA**

This document is composed of 4 pages including 1 annex

FIRST ISSUE: 2023/06/19  
CURRENT ISSUE: 2023/06/19  
PREVIOUS ISSUE: ---  
EXPIRING DATE: 2033/06/18

**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

## [12] ANNEX

[13] Type Examination Statement number: **IMQ 23 ATEX 008**

### [14] **Description of product:**

CD-GI Ex ic Ex Safety Barrier / Isolator is an associated apparatus containing both intrinsically safe and non-intrinsically safe circuits. The product is loop powered and transformer isolated. It provides interfacing between a standard fire detection loop and an intrinsically safe section of the loop. Mounting on standard DIN-Rail in Safe Area.

### [14.1] **Models/Series Identification:**

CD-GI Ex ic

### [14.2] **Ratings:**

Um : 250Vrms  
Un : 27 ÷ 38 Volt DC (Non-intrinsically safe side)

### [14.3] **Safety Ratings:**

U<sub>o</sub> = 28 VDC  
I<sub>o</sub> = 62 mA  
P<sub>o</sub> = 1,74 W  
C<sub>i</sub> = 14 nF  
L<sub>i</sub> = negligible

The output parameters of based on voltage and current based on non-linear characteristics are the following:

- for Group IIB: C<sub>o</sub> ≤ 590 nF      L<sub>o</sub> ≤ 3 mH
- for Group IIA: C<sub>o</sub> ≤ 2,1 μF      L<sub>o</sub> ≤ 20 mH

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

N/A

[14.5] **Degree of protection (IP code):** IP 20 according EN IEC 60259

[14.6] **Warnings:** none

[15] **Report:** AT22-0083909-01

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

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

### [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:

## [12] ANNEX

[13] Type Examination Statement number: **IMQ 23 ATEX 008**

- 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:**

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 request 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 a 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.

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

None

### [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 According Annex VIII of the Directive, by Manufacturer Declaration.

ESHR 1.4 Not applied.

ESHR 1.5 Not applied.

ESHR 3 Not applied as this is not a protective system.

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 additional.

[18] **Descriptive documents:** DL-AT22-0083909-01, issue 0 dated 2023-06-19.

### [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.

Only full reproductions of this are allowed without written permission of IMQ.

[12] **ANNEX**

[13] Type Examination Statement number: **IMQ 23 ATEX 008**

[20] **Variations**

Issue 0