



Italia

CERTIFICATE

[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:

TÜV IT 24 ATEX 0209 X

[4] Equipment or Protective System: Galvanic isolator barrier mod. SafeLink

[5] Manufacturer: ALISONIC S.r.l.

[6] Address: Via Ercolano, 3
I-20900 Monza (MB) - ITALY

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] TÜV Italia, notified body no. 0948 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 products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. R 24 EX 035

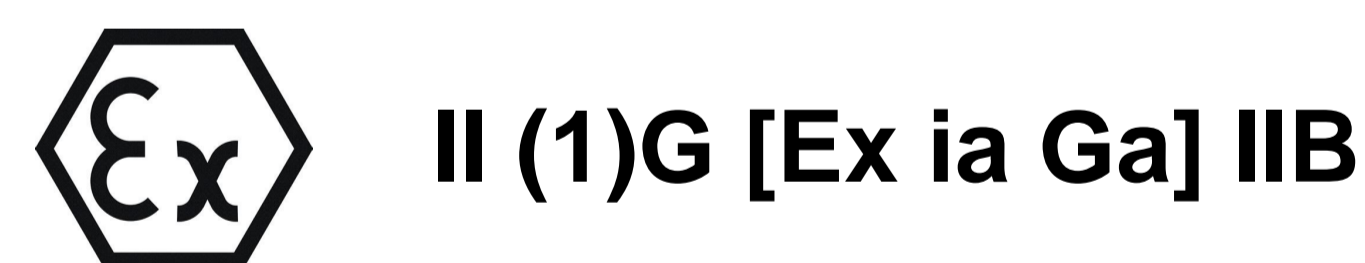
[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018 ; EN 60079-11 : 2012 ; EN 60079-26:2015

[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 product shall include the following:



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Issue date: 22nd July 2024



PRD N° 081B

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



TÜV Italia S.r.l.
Notified body N° 0948

Alberto Carelli

**Industry Service - Real Estate & Infrastructure
Managing Director**

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722340313.

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[13]

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE no. TÜV IT 24 ATEX 0209 X

Certificate History

Revision:	Description:	Report rev.:	Issue Date:
-	First issued	-	22/07/2024

[15] **Description of equipment**

SafeLink is a galvanic isolated apparatus (safety barrier or associated apparatus) which provides intrinsically safe interface to devices located in hazardous area. The equipment contains three different channels (interface ports):

- nr.1 isolated Power supply output
- nr.1 isolated RS485 interface communication

Each interface port is protected by protection method intrinsically safe type "Ex ia".

SafeLink is intended for installation in non-hazardous area (safe zone).

The device essentially consists of a PCB assembly mounted in a plastic enclosure suitable for standard DIN rail mounting.

The interfaces to the hazardous area are isolated from the safe zone inputs, it is guaranteed 1500Vdc insulation between the safe zone and the intrinsically safe interfaces.

The terminals to be connected to the safe area are grouped on the left side of the device; the terminals dedicated to connection with hazardous area are separated and grouped on the right side.

The associated apparatus is powered by means of 12Vdc or 24Vdc external power supply, infallible transformer and opto-isolators guaranteed intrinsically safety protection up to $U_m = 253V_{rms}$.

Rated characteristics

Operating ambient temperature range	-40°C ÷ +70°C
Main Power supply	12Vdc or 24Vdc, 2A (rated)
Case protection degree	IP 20
Case dimension and material	9-DIN Rail standard module 160 x 91 x 58 mm, Material PPO self-extinguish
Condition of Installation	Inside electric panel minimum IP 54
Output power supply	Isolated 12Vdc, 50mA (max rated) for each connector (4x output parallel bus connector)
Communication interface	nr.1 RS485 standard opto-isolated (4x parallel bus connectors)

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SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE**no. TÜV IT 24 ATEX 0209 X**Safety parameters:Max. safety voltage safe side: $U_m = 253 \text{ V}_{rms}$ Intrinsically safe interfaces safety parameters:

Interface	Term.	U _i (V)	I _i (mA)	P _i (mW)	C _i (μ F)	L _i (μ F)	U _o (V)	I _o (mA)	P _o (mW)	C _o (μ F)	L _o (mH)	Lo/Ro (μ H/ Ω)
Pwr.supply out 12Vdc (value for each line)	M5 (pin 4)	-	-	-	-	-	15.8	85	335	2.88	0.60	74.9
	M6 (pin 4)											
	M7 (pin 4)											
	M8 (pin 4)											
RS485 Data signal A,B (value for each line)	M5 (pin 2,3)	8.5	-	-	-	-	6.93	106	184	299	4.0	387
	M6 (pin 2,3)											
	M7 (pin 2,3)											
	M8 (pin 2,3)											

The equipment which has been to be connected to the interfaces port must be ATEX separately certified and matching the safety parameters above declared.

Warning label

None.

[16] **Report no.** R 24 EX 035**Routine tests**

The intrinsically safe parts of circuit who correspond with the interfaces of connection to the hazardous area and transformer for galvanic isolation are tested by the manufacturer in agreement to EN 60079-11:2012 §11.1 and §11.2.

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PEX-01-M002_r08 del 07/08/2018



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SCHEDULE

[14]

**EU-TYPE EXAMINATION CERTIFICATE
no. TÜV IT 24 ATEX 0209 X**

[17] **Special conditions for safe use**

- The operating ambient temperature is -40°C to +70°C.
- To be installed only in safe area inside electric panel with protection degree IP 54 or higher.

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents**

Listed documents (prot. 722238172)

Title:	Description:	Pages:	Rev:	Date:
SKE069_TF + ANNEX L - CALCOLI ATEXn02	ATEX Risk analysis and nameplate	25 + 6	00 + 02	10/01/2023
SKE069_SCH+GBR	Schematic circuit + pdf gerber	04	01	20/06/2024
SKE069_GBR	Gerber files Zip packages	20files	01_A	29/03/2024
SKE069_REV01_V0_12V_n02 + SKE069_REV01_V1_24V_n01	Bill of materials	1 + 2	01n02 + 01n01	15/04/2024
Man_Safelink	Instruction manual and safety notes	12	00	06/2024

One copy of all documents is kept in TÜV Italia files.

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