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

Certificate No.: **IECEx EUT 25.0014X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2025-10-31

Applicant: **Palazzoli S.p.A.**
Via F. Palazzoli 31
25128 Brescia (BS)
Italy

Equipment: **Industrial Sound Signalling Devices ALARM-EX**

Optional accessory:

Type of Protection: **Increased Safety "e"; Dust Protection "t"**

Marking: Ex eb IIC T3 Gb

Ex tb IIIC T85°C...T95°C Db

or

Ex ec IIC T3 Gc

Ex tb IIIC T85°C...T90°C Db

The relationships between rated voltage values, ambient temperature ranges and temperature limits are reported in the equipment description.

Approved for issue on behalf of the IECEx Certification Body: **Dionisio Bucchieri**

Position: **Head of IECEx Certification Body**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins Product Testing Italy S.r.l.
Via Cuorgnè
n.21 - 10156 Torino
Italy

eurofins | Product Testing

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Certificate No.: **IECEx EUT 25.0014X** Page 2 of 4

Date of issue: 2025-10-31 Issue No: 0

Manufacturer: **Palazzoli S.p.A.**
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25128 Brescia (BS)
Italy

Manufacturing locations: **Palazzoli S.p.A.**
Via F. Palazzoli 31
25128 Brescia (BS)
Italy

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 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/EUT/ExTR25.0009/00

Quality Assessment Report:

IT/IMQ/QAR14.0001/12

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The industrial sound signalling devices of the ALARM-EX series covered by this document are equipped with an enclosure that ensures IP66 degree of protection, made of painted aluminium alloy. The windings inside the ALARM-EX devices, crossed by alternating current, generate a variable magnetic field at mains frequency. This magnetic field couples with a mass of ferromagnetic material that is mechanically connected to a metal diaphragm. The movement of the diaphragm in the air produces sound waves.

Industrial Sound Signalling Devices ALARM-EX models:

900453EX 24VAC

Ex eb IIC T3 Gb
Ex tb IIIC T85°C Db
-40°C ≤ Ta ≤ +40°C

or

Ex eb IIC T3 Gb
Ex tb IIIC T90°C Db
-40°C ≤ Ta ≤ +45°C

900463EX 110VAC

Ex eb IIC T3 Gb
Ex tb IIIC T95°C Db
-40°C ≤ Ta ≤ +40°C

900473EX 230VAC

Ex ec IIC T3 Gc
Ex tb IIIC T85°C Db
-40°C ≤ Ta ≤ +40°C

or

Ex ec IIC T3 Gc
Ex tb IIIC T90°C Db
-40°C ≤ Ta ≤ +45°C

Standard products are supplied with plastic cable glands suitable for non-armoured cables. Special products can be supplied with metallic cable glands, in this case the article code has a suffix that define the kind of cable gland used, as specified below:

Suffix	Description of cable gland
-MNS	Metallic for non-armoured cables - Small size
-MNL	Metallic for non-armoured cables - Large size
-MAS	Metallic for armoured cables - Small size
-MAL	Metallic for armoured cables - Large size

SPECIFIC CONDITIONS OF USE: YES as shown below:

For versions with plastic cable gland, apply these limitations:

- Minimum ambient temperature = -35 °C;

- Install in areas with low mechanical risk (maximum impact energy 4 J).

For versions with metallic cable gland, apply these limitations:

- Provide a locking device to prevent excessive traction/rotation of the cable.

IECEx Certificate of Conformity

Equipment (continued):

Routine test:

Each unit shall be tested between phase/neutral conductor and earth conductor for a minimum time of 100ms at the following value:

Nominal voltage Vac	Test Voltage	
	Vac r.m.s.	Vdc
24	600	1020
110	1464	2489
230	1752	2979