



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 BVS 12.0049X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2013-04-15\)](#)
[Issue 0 \(2012-07-27\)](#)
Date of Issue: 2024-06-10
Applicant: **Motorola Solutions Systems Polska Sp.z.o.o.**
Ul. Czerwone Maki 81
30-392 Krakow
Poland
Equipment: **Audio adapter type PMLN6047A**
Optional accessory:
Type of Protection: **Intrinsic Safety "i"**
Marking: Ex ib IIC T4 Gb
Ex ib IIIC T90°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

**Senior Lead Auditor, Certification Manager and officially
recognised expert**

Signature:
(for printed version)


2024-06-10

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:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Motorola Solutions Systems Polska S.p.z.o.o.**
Ul. Czerwone Maki 81
30-392 Krakau
Polen
Poland

Manufacturing locations: **Motorola Solutions Systems Polska S.p.z.o.o.** **MOTOROLA SOLUTIONS Malaysia Sdn. Bhd.**
Ul. Czerwone Maki 81 Plot2, Bayan Lepas
30-392 Krakau Technoplex Industrial Park
Polen Mukim 12, SWD, 11900
Poland Bayan Lepas, Penang
Malaysia

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:

[DE/BVS/ExTR12.0052/02](#)

Quality Assessment Report:

[DE/BVS/QAR20.0004/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General remarks:

The audio adapter type PMLN6047A is a converter to produce an IS output circuit with defined output parameters. At this output, certified accessories can be connected. The audio adapter can be used with the Motorola IECEX approved radios listed below:

<u>Radio type</u>	<u>IECEX</u>
XPR6580IS	IECEX BVS 10.0089X
XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP ****EX	IECEX BVS 12.0070X
MTP8***Ex	IECEX BVS 15.0107X

The audio adapter will only be brought into the hazardous environment connected to the radio types listed above and a secondary audio device connected. For more information see "Specific Conditions of Use".

List of all components used with reference to older standards

No components

SPECIFIC CONDITIONS OF USE: YES as shown below:

For Group III applications it is only allowed to connect or disconnect the audio adapter to the radio outside the potentially hazardous environment.

Ensure that the audio adapter is tightly fastened with the supplied tool on the radio types listed above.



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Equipment (continued):

Technical parameters:

1. Input values:

Generated by the radios type XPR6580IS, XPR **** Ex, XiR P**** Ex, DP**** Ex, DGP ****EX or MTP8***Ex

2. Output values:

2.1 When connected to radio type XPR6580IS, the audio adapter has the following interface parameters (Pin R1 - R8, Ex ib) at the Molex connector:

Maximum output voltage	U _o	8.66	V
Maximum. output current	I _o	75	mA
Maximum output power	P _o	314	mW
Maximum external capacitance	C _o	0.1	μF
Maximum external inductance	L _o	2	mH

2.2 When connected to radio types XPR **** Ex, XiR P**** Ex, DP**** Ex DGP ****EX or MTP8***Ex, the audio adapter has the following interface parameters (Pin R1 – R8, Ex ib) at the Molex connector:

Maximum output voltage	U _o	8.4	V
Maximum output current	I _o	75	mA
Maximum. output power	P _o	314	mW
Maximum external capacitance	C _o	0.1	μF
Maximum external inductance	L _o	2	mH

3. The permitted ambient temperature range for the audio adapter is:
-20 °C ≤ T_{amb} ≤ +55 °C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Manufacturer's address change from Motorola Solutions Berlin to Motorola Solutions Krakow
- Update of the used standard IEC 60079-0:2011 to IEC 60079-0:2017
- Add additional sources for electrical parts
- Add MTP8*** Ex output interface parameter
- Update packaging label
- Change of the name of the encapsulation
- Add document update
- Molex connector modification