



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

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx UL 16.0158U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2025-03-26) Issue 0 (2016-11-29)
Date of Issue:	2026-09-04		
Applicant:	MGS TECHNOLOGY DOO Bulevar Patrijarha Germana 91, Beli Potok, 11223 Belgrade, Serbia		
Ex Component:	Infrared Gas Sensors, Model MIPEX-04-X-XX-3.5 Series.		

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Intrinsic Safety "ia", Optical Radiation "op is"**

Marking: Ex ia op is IIC Ga
Ex ia op is I Ma
-40°C to +75°C

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2026-09-04

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:

UL Solutions (US)
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





IECEx Certificate of Conformity

Certificate No.: **IECEx UL 16.0158U**

Page 2 of 4

Date of issue: 2026-09-04

Issue No: 2

Manufacturer: **MGS TECHNOLOGY DOO**
Bulevar Patrijarha Germana 91,
Beli Potok, 11223 Belgrade,
Serbia

Manufacturing
locations: **MGS TECHNOLOGY DOO**
Bulevar Patrijarha Germana 91,
Beli Potok, 11223 Belgrade,
Serbia

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 component 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 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR16.0183/00

US/UL/ExTR16.0183/01

US/UL/ExTR16.0183/02

Quality Assessment Report:

DK/ULD/QAR24.0002/02



IECEx Certificate of Conformity

Certificate No.: **IECEx UL 16.0158U**

Page 3 of 4

Date of issue: 2026-09-04

Issue No: 2

Ex Component(s) covered by this certificate is described below:

The MIPEX-04-X-XX-3.5 infrared gas sensor is intended for automatic continuous measurement of gas concentration in atmosphere of hazardous areas.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- The sensor is a component intended for use within an enclosure providing at least IP20, as applicable to the intended use.



IECEx Certificate of Conformity

Certificate No.: **IECEx UL 16.0158U**

Page 4 of 4

Date of issue: 2026-09-04

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Reactivate certification and update to the latest edition of 60079-0 and addition of 60079-28.

Issue 2: Updated to IEC 60079-11, Ed. 7.0 and revised the service temperature from +60°C to +75°C. Inclusion of Group I.

Annex:

[Annex to IECEx UL 16.0158U Issue 2.pdf](#)



IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 16.0158U

Issue No.: 2

Page 1 of 2

TYPE DESIGNATION

Nomenclature:

MIPEX-04	-B	-R	X	-3	.5
I	II	III	IV	V	VI

I MIPEX Model Number

II Target gas
1 - CH₄ (methane)
2 - C₃H₈ (propane, CmHn – hydrocarbons)

III Application:
R - Calibration gas and range
Where R = number from 0 to 9

IV Application:
X - Temperature class and accuracy
Where X = number from 0 to 9

V Housing type:
3 – Plastic

VI Interface options:
5 - UART

PARAMETERS RELATING TO THE SAFETY

Ui = 5.4V, Ii = 200 mA, Pi = 0.13W, Li = 0 mH, Ci = 58.1 uF

Annex to Certificate No.:

IECEx UL 16.0158U

Issue No.: 2

Page 2 of 2

MARKING

Marking has to be readable and indelible; it has to include the following indications:

