

IECEx Certificate of Conformity

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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 23.0063U	Page 1 of 3	Certificate history:			
Status:	Current	Issue No: 0				
Date of Issue:	2023-10-16					
Applicant:	SIA MIPEX Valkas lela 2b Daugavpils 5417 Latvia					
Ex Component:	Optical Gas Sensor, Model MIPE>	K-04-B-CC-3.1.				
This component is N for use in explosive	IOT intended to be used alone and r atmospheres (refer to IEC 60079-0).	equires additional consideration when incorporated into o	other equipment or systems			
Type of Protection:	Intrinsic Safety "ia"					
Marking:	Ex ia I Ma					
	Ex ia IIC Ga					
Approved for issue of		Katy A. Haldradge				
Approved for Issue c Certification Body:	on behalf of the IECEX	Katy A. Holdredge				
Position:		Senior Staff Engineer				
Signature: (for printed version)						
Date: (for printed version)						
 This certificate and a This certificate is no The Status and auth 	schedule may only be reproduced in full. t transferable and remains the property of th enticity of this certificate may be verified by	ne issuing body. visiting www.iecex.com or use of this QR Code.				
Certificate issued	d by:					
UL Solutions 333 Pfingsten R Northbrook IL 6 United States	(US) toad 50062-2096 5 of America		Solutions			

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Date of issue:	2023-10-16	Issue No: 0	
Manufacturer:	SIA MIPEX Valkas lela 2b Daugavpils 5417 Latvia		
Manufacturing locations:	SIA MIPEX Valkas lela 2b Daugavpils 5417 Latvia		

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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 Report:

US/UL/ExTR23.0075/00

Quality Assessment Report:

DK/ULD/QAR23.0001/00



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

The Optosense MIPEX-04 Series of optical gas sensor are considered Ex Components with the following I/O parameters Ui = 5.5 V, Ii = 200 mA, Pi = 0.13 W, Ci = 26 μF, Li = 0.

The equipment is housed within a non-metallic enclosure which is considered to achieve IP20, a membrane can be applied by the manufacturer which increases the ingress protection rating IP54.

The user/installation manual details the correct method for the end manufacturer to install the device within their equipment.

The equipment must be fitted with the dust filter for use within Group I environments.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- The MIPEX 04-B-CC-3.1 model of the equipment is housed within a plastic enclosure which requires the following to be placed on the certificate and the following guidance included within the manual: WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD -CLEAN ONLY WITH A DAMP CLOTH.
- All models are suitable for equipment with temperature classes T1 T6 an ambient temperature range of -40°C ≤ Tamb ≤ +60°C.
- The equipment must be fitted with the dust filter for use within Group I environments. •

Annex:

Annex to IECEx UL 23.0063U Issue 0.pdf



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TYPE DESIGNATION

MIPEX -04 Sensors:

MIPEX-04	4 -B	-CC	-D	.E			
I	П	Ш	IV	V			
I	MIPEX Model Number						
II	Target gas 1 - CH4 (methane) 2 - C3H8 (propane, CmHn – hydrocarbons)						
III	Application: R – calibration gas and range X – temperature class and variability						
IV	Housing type 3 - "Plastic"	e:					

V Interface: 1 – UART

PARAMETERS RELATING TO THE SAFETY

Ui = 5.5 V, Ii = 200 mA, Pi = 0.13 W, Ci = 26 $\mu F,$ Li = 0.



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MARKING

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

