



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 UL 20.0132X**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2022-04-12\)](#)

[Issue 0 \(2021-03-19\)](#)

Date of Issue: 2025-09-04

Applicant: **ExRobotics B.V.**
Delftechpark 26
Delft 2628 XH
Netherlands

Equipment: **LiDAR Module, Model LDR-SW-003226**

Optional accessory:

Type of Protection: **Flameproof "db"**

Marking: **Ex db IIB T4 Gb**
-40°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2025-09-04

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





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Manufacturer: **Ex Robotics B.V.**
Delftechpark 26,
Delft 2628 XH
Netherlands

Manufacturing
locations: **Ex Robotics B.V.**
Delftechpark 26,
Delft 2628 XH
Netherlands

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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 Reports:

[US/UL/ExTR20.0149/00](#)

[US/UL/ExTR20.0149/01](#)

[US/UL/ExTR20.0149/02](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The LiDAR Module, LDR-SW-003226, is a flameproof enclosure with a window that contains a LiDAR puck. The LiDAR Modules are factory wired with a cable leaving the enclosure through a cable gland.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Do not repair the flameproof joints.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Update of manufacturing location address.

Issue 2: Manufacturer's address changed from Effenseweg 1, Breda, 4838 BA, The Netherlands to Delftechpark 26, Delft 2628 XH, Netherlands.

Annex:

[Annex to IECEx UL 20.0132X Issue 2.pdf](#)



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Annex to Certificate No.:

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PARAMETERS RELATING TO THE SAFETY

Voltage = 12 V DC

Current = 1.5 A

MARKING

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

		ExRobotics B.V. Street Postal code, City The Netherlands				
CE 0539	Year of manufacture 2021					
LiDAR Module						
LDR-SW-003226	Serial number #001					
IECEX UL 20.0132X		UL 20 ATEX 2465X				
II 2 G Ex db IIB T4 Gb						
-40°C ≤ Ta ≤ +60°C		See Instructions				
<table border="1"><tr><td>WARNING OPEN ONLY IN NON- HAZARDOUS AREA</td><td>WARNING DO NOT OPEN WHEN ENERGISED</td><td>WARNING USE FASTENERS WITH YIELD STRESS ≥ 700 Nmm⁻²</td></tr></table>				 WARNING OPEN ONLY IN NON- HAZARDOUS AREA	 WARNING DO NOT OPEN WHEN ENERGISED	 WARNING USE FASTENERS WITH YIELD STRESS ≥ 700 Nmm⁻²
 WARNING OPEN ONLY IN NON- HAZARDOUS AREA	 WARNING DO NOT OPEN WHEN ENERGISED	 WARNING USE FASTENERS WITH YIELD STRESS ≥ 700 Nmm⁻²				

ROUTINE EXAMINATIONS AND TESTS

The routine overpressure testing of the LiDAR Module per IEC 60079-1 is replaced by a batch test. The required overpressure for batch testing is 10.56 bar (154 PSI), 1.5 times the reference pressure.

- For a production batch up to 100, a sampling of 8 needs to be tested at 1.5 times the reference pressure with no failures.
- For a production batch from 101 to 1,000, a sampling of 32 needs to be tested at 1.5 times the reference pressure with no failures.
- For a production batch from 1,001 up to 10,000 a sampling of 80 needs to be tested at 1.5 times the reference pressure with no failures.
- Batches above 10,000 must be subdivided into smaller batches.

If there are any non-compliant test results, 100 % of all remaining samples in the batch shall be tested at 10.56 bar (154 PSI), 1.5 times the reference pressure. Also, 100% of future batches shall be routine tested at 1.5 times the reference pressure until confidence is established to reconsider batch testing.



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LIST OF CERTIFIED EQUIPMENT AND/OR COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of this Certificate were applied to integral Components as itemized below. There are no significant safety related changes between these previous editions and the editions noted under the "Standards" section.

Product	Certificate Number	Standards
Hummel, Compression Gland, HSK-INOX-Ex-d, HSK-M-Ex-d	IECEx KEM 07.0013X	IEC 60079-0:2011 Ed.6.0 IEC 60079-1:2014-06 Ed.7.0