



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 18.0029X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2020-01-10\)](#)
[Issue 0 \(2018-09-13\)](#)
Date of Issue: 2021-07-14
Applicant: **ExRobotics B.V.**
Effenseweg 1
Breda, 4838 BA
Netherlands
Equipment: **Camera and Light Module, CAM-SW-001831 and LED-SW-002238**
Optional accessory:
Type of Protection: **Flameproof "db"**
Marking: Ex db IIB T4 Gb
-20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

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 LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





IECEX Certificate of Conformity

Certificate No.: **IECEX UL 18.0029X**

Page 2 of 4

Date of issue: 2021-07-14

Issue No: 2

Manufacturer: **ExRobotics B.V.**
Effenseweg 1
Breda, 4838 BA
Netherlands

Additional manufacturing locations: **ExRobotics B.V.**
Elektronicaweg 29
Delft 2628 XG
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 60079-1:2014-06 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/ExTR18.0035/00](#)

[US/UL/ExTR18.0035/01](#)

[US/UL/ExTR18.0035/02](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/05](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 18.0029X**

Page 3 of 4

Date of issue: 2021-07-14

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Camera Module, CAM-SW-001831, is a flameproof enclosure containing three cameras. Light Module, LED-SW-002238, is a flameproof enclosure containing LED lights. The Camera Module and Light Module are factory wired with a cable leaving the enclosure through a potted cable gland.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Do not repair the flameproof joints.



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 18.0029X**

Page 4 of 4

Date of issue: 2021-07-14

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of alternate glass material and updating to the latest standards.

Issue 2: Minor editorial changes were made to the certification drawings.

Annex:

[Annex to IECEx UL 18.0029X Issue 2.pdf](#)



IECEx Certificate of Conformity

Certificate No.: IECEx UL 18.0029X

Issue No.: 2

Page 1 of 2

PARAMETERS RELATING TO THE SAFETY

CAM-SW-001831: 5VDC, 1A

LED-SW-002238: 36VDC, 700mA

MARKING

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



ExRobotics B.V.
Effenseweg 1
4838 BA Breda
The Netherlands

| | | |
|---|---|--|
| CE 0539 | Year of manufacture | 2018 |
| Light Module | | |
| LED-SW-002238 | 01 | |
| IECEx UL 18.0029X | DEMKO 18 ATEX 1928X | |
| Ⓔ II 2G Ex db IIB T4 Gb | | |
| -20°C ≤ T _a ≤ +60°C | | See Instructions |
| WARNING OPEN ONLY IN NON- HAZARDOUS AREA | WARNING DO NOT OPEN WHEN ENERGISED | WARNING USE FASTENERS WITH YIELD STRESS ≥ 450 Nmm ² |



ExRobotics B.V.
Effenseweg 1
4838 BA Breda
The Netherlands

| | | |
|---|---|--|
| CE 0539 | Year of manufacture | 2018 |
| Camera Module | | |
| CAM-SW-001831 | 01 | |
| IECEx UL 18.0029X | DEMKO 18 ATEX 1928X | |
| Ⓔ II 2G Ex db IIB T4 Gb | | |
| -20°C ≤ T _a ≤ +60°C | | See Instructions |
| WARNING OPEN ONLY IN NON- HAZARDOUS AREA | WARNING DO NOT OPEN WHEN ENERGISED | WARNING USE FASTENERS WITH YIELD STRESS ≥ 450 Nmm ² |



IECEx Certificate of Conformity

Certificate No.: IECEx UL 18.0029X

Issue No.: 2

Page 2 of 2

LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of the 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.

| | |
|---|--------------------------|
| CMP Ex "d" barrier gland 20SPX2KREX1RA4 | IEC 60079-1 Edition 2007 |
|---|--------------------------|