

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 18 ATEX 1928X Rev. 1**

[4]

Product: **Camera and Light Module, CAM-SW-001831 and LED-SW-002238**

[5]

Manufacturer: **ExRobotics B.V.**

[6]

Address: **Effenseweg 1, Breda, 4838 BA, The Netherlands**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4789173652.1.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12]

The marking of the product shall include the following:

 **II 2 G Ex db IIB T4 Gb**

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2018-09-13

Re-issued: 2020-01-10

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 18 ATEX 1928X Rev. 1

[13]

[14]

[15] Description of Product
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.

Performance Testing

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is not covered in this certificate.

Temperature range

The ambient temperature range is $-20\text{ °C} \leq T_a \leq +60\text{ °C}$.

Electrical data

CAM-SW-001831: 5VDC, 1A
LED-SW-002238: 36VDC, 700mA

Routine tests

Batch overpressure tests in accordance with ISO 2859-1[5] and Clause 16.6 EN 60079-1:2014 shall be conducted on all CAM-SW-001831 and LED-SW-002238 utilizing BK7 glass manufactured by CRYSTRAN at a pressure of 8.27 bar (120 PSI). If there are any non-compliant results, 100% routine testing of the remaining samples in the batch shall be performed at 8.27 bar (120 PSI).

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

- Do not repair the flameproof joints.


[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark  will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.