



# 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](http://www.iecex.com)

Certificate No.: **IECEx DEK 24.0057X**

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Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2024-10-27\)](#)

Date of Issue: 2025-03-12

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

Equipment: **Tilting Module type TLT-SW-005334**

Optional accessory:

Type of Protection: **Ex d**

Marking: **Ex db IIC T4 Gb**

Approved for issue on behalf of the IECEx  
Certification Body:

**L.G. van Schie**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2025-03-12

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
**Netherlands**





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

Manufacturing  
locations: **ExRobotics 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 Report:

[NL/DEK/ExTR24.0041/01](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/09](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Tilting Module type TLT-SW-005334 is a flameproof enclosure consisting of an aluminium base and a front and back cover. The front cover is provided with three glass windows. The Tilting Module is intended to be mounted on top of a movable robot. The equipment includes various combinations of up to 3 optical cameras and LED units.

The Tilting Module is provided with Ex d certified cable barrier gland, blanking elements and permanently connected cable. The full specification of the pre-certified parts is given in the test report.

Ambient temperature range: -40 °C to +60 °C.

## **Electrical data**

Supply voltage: 36 VDC

Power dissipation: max. 57 W

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The flameproof joints are not intended to be repaired.
- Cables must be effectively clamped to prevent pulling or twisting.
- Fasteners M4x0.7 – 10 mm socket countersunk head screw, ISO 14581, 316 stainless steel, are used to secure the bearing lock plate. These fasteners shall only be replaced with identical ones.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

1. Removal of the guard on the sapphire window covers
2. Addition of a small battery
3. Addition of alternative cameras and lens