



# 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 20.0067X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-03-26  
Applicant: **ExRobotics B.V.**  
Effenseweg 1  
4838 BA Breda  
**Netherlands**  
Equipment: **Mast Drive Module type MDR-SW-003678**  
Optional accessory:  
Type of Protection: **Ex db**  
Marking: Ex db IIB T4 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2021-03-26

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.**  
Effenseweg 1  
4838 BA Breda  
**Netherlands**

Additional  
manufacturing  
locations: **ExRobotics B.V.**  
Elektronicaweg 29,  
2628 XG Delft,  
**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 Report:

[NL/DEK/ExTR20.0069/00](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/03](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Mast Drive Module type MDR-SW-003678 consists of a motor and electronics in a flameproof enclosure and is intended to drive a mast of a robot vehicle up and down. The module is provided with a separately certified cable gland and a permanently connected cable.

Ambient temperature range: -40 °C to +50 °C when provided with IGUS cable CF27.07.05.01.D

-40 °C to +60 °C when provided with IGUS cable CF11.031.D

The equipment shall be installed so that the flanged joint between the cover and body of the enclosure at the side opposite to the side with the shaft and cable is not within 2 mm of a solid object that is no part of this equipment. For the other sides of the flanged joint the minimum distance is 30 mm.

**Electrical data:** 36 Vdc, 3 A max., max. peak power 108 W, max. average power (over 2.5 min) 25 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.