



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 18.0036X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2022-04-12)
Date of Issue:	2023-04-18		Issue 1 (2021-03-22)
Applicant:	ExRobotics B.V. Effenseweg 1 Breda, 4838 BA Netherlands		Issue 0 (2018-09-14)
Equipment:	Drive Module, DRV-SW-001925		
Optional accessory:			
Type of Protection:	Flameproof "db"		
Marking:	Ex db IIB T4 Gb or Ex db IIC T4 Gb -40°C ≤ Ta ≤ +60°C or -40°C ≤ Ta ≤ +55°C		

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2023-04-18

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





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Manufacturer: **ExRobotics B.V.**
Effenseweg 1
Breda, 4838 BA
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 60079-1:2014-06](#) 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/ExTR18.0044/00](#)

[US/UL/ExTR18.0044/01](#)

[US/UL/ExTR18.0044/02](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Drive Module, DRV-SW-001925, is a flameproof enclosure with two motors located completely within the enclosure. The Drive Module contains two separate drive connections through the wall of the flameproof housing for mechanical connections to the internal motors. The Drive Module is rated for continuous duty for up to a 5A total load (2.5 A for each end). The Drive Module is rated for a duty cycle of up to 10A for 90 minutes with power on and at least 12 hours with power off.

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: Updates to the latest standards, update of the entry placement on the enclosure, and updating of the ambient temperature.

Issue 2: Update of manufacturing location address. No update of ExTR for this issue.

Issue 3: Evaluation of various construction changes for the DRV-SW-001925, and recertification for Group IIC.

Annex:

[Annex to IECEx UL 18.0036X Issue 3.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

36V DC, 5 Amp continuous or 10 Amp Duty

The Drive Module is rated for continuous duty for up to a 5A total load (2.5 A for each end). The Drive Module is rated for a duty cycle of up to 10A for 90 minutes with power on and at least 3 hours with power off.

MARKING

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

Two markings are available: IIB and IIC, depending on the manufacturing variations.

		ExRobotics B.V. Effenseweg 1 4838 BA Breda The Netherlands	
CE 0539	Year of manufacture 2021		
Drive Module			
DRV-SW-001925	Serial number #001		
IECEX UL 18.0036X DEMKO 18 ATEX 1929X			
II 2 G Ex db IIB T4 Gb			
-40°C ≤ Ta ≤ +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	

$T_{a \max}$ is +55°C when the maximum temperature of the cable is below +85°C