



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 18.0028X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2021-07-14\)](#)
[Issue 0 \(2018-09-17\)](#)
Date of Issue: 2022-04-12
Applicant: **ExRobotics B.V.**
Effenseweg 1
Breda, 4838 BA
Netherlands
Equipment: **Battery Pack, BAT-SW-001806**
Optional accessory:
Type of Protection: **Increased Safety "eb"**
Marking: Ex eb IIB T4 Gb
-20°C ≤ Ta ≤ +50°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)

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

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 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR18.0034/00](#)

[US/UL/ExTR18.0034/01](#)

[US/UL/ExTR18.0034/02](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Battery Pack, BAT-SW-001806, is an increased safety enclosure that houses three batteries. Each of the three batteries are rated 12 VDC and 9Ah. The Battery Enclosure is provided with a cable leaving the enclosure for connections to external circuits.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The pack will be located within an enclosure that protects it against impact



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Editorial changes were made to the certification drawing and installation manual. The construction was updated to include alternate certified cable glands. No other construction changes were made to the equipment. The standards were updated to the latest revisions. There are no differences between IEC 60079-7, Edition 5.0, and IEC 60079-7, Edition 5.1 that affect this product.

Issue 2: Update of manufacturing location address.

Annex:

[Annex to IECEx UL 18.0028X Issue 2.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Maximum Voltage = 36 V DC

Maximum Current = 9 A

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 2021		
Battery Pack			
BAT-SW-001806	Serial number #001		
IECEX UL 18.0028X		DEMKO 18 ATEX 1930X	
II 2 G Ex eb IIB T4 Gb			
-20°C ≤ Ta ≤ +50°C		See Instructions	
⚡ Highest voltage 36 VDC • Voltage per battery 12 VDC			
⚡ Total power housed < 1300 W • Current rating 7.2Ah			
 WARNING BATTERIES ARE ONLY TO BE REPLACED BY EXROBOTICS	 WARNING DO NOT OPEN	 WARNING ONLY USE 3 X 12-GRGS-7.2 OR 6-CNFJ-7.2 BATTERIES	 WARNING DO NOT CHARGE IN HAZARDOUS AREA

LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the “Standards” section of this 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.

Product	Certificate Number	Standards
Multibox Terminal Box MBA 202311	IECEX IBE 14.0020U	IEC 60079-0 Edition 6 IEC 60079-7 Edition 4
Hummel HSK-K-EX-Active Cable Gland	IECEX BVS 14.0020X	IEC 60079-7 Edition 5
Hummel HSK-M-EX Cable Gland Hummel HSK-INOX-EX Cable Gland	IECEX BVS 14.0020X IECEX KEM 07.0014X	IEC 60079-0 Edition 6 IEC 60079-7 Edition 5