



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX BKI 20.0003U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-11-26

Applicant: **Adott Solutions Ltd.**
Szőkéd, Ady Endre u. 6.
Pécs 7763
Hungary

Ex Component: Barrier Modul Product family

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **General requirements; Equipment protection by intrinsic safety "i"**

Marking: **Ex ib IIC Gb**

Ex ib IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Nagy Botond

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:

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:

ExVA Testing and Certification Ltd.
H 1037 Budapest
Mikoviny S u.2-4
Hungary





IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 20.0003U**

Page 2 of 3

Date of issue: 2020-11-26

Issue No: 0

Manufacturer: **Adott Solutions Ltd.**
Szökéd, Ady Endre u. 6.
Pécs 7763
Hungary

Additional
manufacturing
locations:

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

[HU/BKI/ExTR20.0005/00](#)

Quality Assessment Report:

[HU/BKI/QAR20.0002/00](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 20.0003U**

Page 3 of 3

Date of issue: 2020-11-26

Issue No: 0

Ex Component(s) covered by this certificate is described below:

xPEX product family consists of Surface Mount Technology (SMT) components that are used on Printed Circuit Board Assemblies (PCBA-s) to limit the power (voltage and/or current) in defined parts of the circuitry. In normal operation they pass-through the electrical signals or powers from their input to their output, but in case of malfunction (if the current or voltage would exceed the set limit), the module will either limit the output to the specified value, or will shut down the output.

A typical use would be in a PCB where certain part of the PCB is encapsulated, and all the conductors that come out from the encapsulation need to be intrinsically safe. In these cases, if there are energy sources or energy storing parts in the circuitry under encapsulation, the module would ensure that the voltages and/or currents on the output are limited.

The Product family

PPEX – Power Protection Module

BPEX – Boost Protection Module

EPEX – Ethernet Protection Module

SCHEDULE OF LIMITATIONS:

PCB outermost layer under the component must be GND.

The module must be encapsulated according to 60079-11.

In the application of the module, keep required separation distances to the module according to 60079-11.

Enclosure of the equipment in which the module is to be used must be at least IP2x.

It is not allowed to attempt to repair or disassemble the module.

Fuse is mandatory for current protection of crowbar inside Part A. Fuse value of 2A or less must be used. (BPEX)

Reverse blocking diodes are mandatory for current protection of crowbar inside Part B. Reverse voltage of the diodes must be at least 1.5 times higher, than the tripping voltage of Part B. (BPEX)

For application of the module, further consideration is required to ensure that the combination of voltages, currents and components (e.g. capacitors, inductors) that are to be connected to the output of the module, will maintain the safety of the equipment (e.g. via Annex A of 60079-11 or spark assessment).