



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 EPS 16.0050X** Page 1 of 5 Certificate history:
Issue 0 (2017-04-12)

Status: **Current** Issue No: 1

Date of Issue: 2020-03-13

Applicant: **BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

Equipment: **Hand-held scanner BCS 36*8ex-NI B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1**

Optional accessory: Universal Supply-Modules B7-A2Z0-0042 /-0043

Type of Protection: **e, i, op is, t**

Marking:

	Type : B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1
Hand-held Scanner BCS 36*8 ^{EX} -NI	Ex ic op is IIC T4 Gc Ex ic op is IIIC T135°C Dc IP64
Universal Supply Modules Cable / Bluetooth	Type : B7-A2Z0-0042 Type : B7-A2Z0-0043 Ex ec [ic] IIC T4 Gc Ex ec IIC T4 Gc Ex tc [ic] IIIC T80°C Dc Ex tc IIIC T80°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-03-13



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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

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

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Report:

DE/EPS/ExTR16.0050/01

Quality Assessment Report:

DE/TUN/QAR06.0017/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The ultra-rugged hand-held scanner types BCS3608^{ex}-NI corded / BCS3678^{ex}-NI Bluetooth are for reliably scanning barcodes in hazardous areas. The Universal Supply Modules are used for the intrinsically safe supply (barrier) or for data transfer of the ultra-robust hand-held scanners BCS 3600^{ex}-NI.

Electrical data:

Type : B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1
BCS3608 ^{ex} -NI: 5 V / 12 V DC
BCS3678 ^{ex} -NI: 3.6 V DC; 3275 mAh
BCS3678 ^{ex} -NI: 3.6 V DC; 3500 mAh

	Type: B7-A2Z0-0042	Type: B7-A2Z0-0043
Inputs:	AC 100 - 240 V, 50/60 Hz, 0.1 A / 6 W	AC 100 - 240 V, 50/60 Hz, 0.01 A / 1 W
	DC 24 V / 0.2 A	DC 24 V / 0.05 A
Output:	5 V / 0.5 A	

Intrinsically safe input values for B7-A2S4-1HP0 /-1ER0:

$U_i = 5\text{ V}$
 $I_i = 1\text{ A}$
 $C_i = 0.3\ \mu\text{F}$
 $L_i = 0.1\ \mu\text{H}$

Intrinsically safe output values for B7-A2Z0-0042 :

$U_o = 5\text{ V}$
 $I_o = 1\text{ A}$
 $C_o = 1000\ \mu\text{F}$
 $L_o = 80\ \mu\text{H}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Hand-held scanner BCS 36*8^{ex}-NI B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1:

Batteries shall only be changed or charged in an area known to be non-hazardous. Do not connect or disconnect the connecting cable unless power has been switched off or the area is known to be non-hazardous. Ensure that the safety lock metal plate is closed and screwed. The impact test according to IEC 60079-0 was done with low impact energy. The device must be protected from impacts with high impact energy, against permanent UV light and high electrostatic charge generating processes..

Universal Supply-Modules B7-A2Z0-0042 /-0043:

Do not connect or disconnect the connecting cable on the supply side unless power has been switched off or the area is known to be non-hazardous.

The equipment shall be permanently installed.

The equipment shall only be cleaned with a damp cloth.

The Quick-Start-Guide shall be observed strictly.

Maximum permissible ambient temperature range: -20 °C to +50 °C



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Equipment (continued):

Ex-relevant accessories:

Battery	B7-A2Z0-0036 (3.6 V DC; 3275 mAh)
Battery	B7-A2Z0-0058 (3.6 V DC; 3500 mAh)
Connection cable	B7-A2Z0-0037 (1.9 m)
Connection cable	B7-A2Z0-0038 (4.5 m)
Connection cable	B7-A2Z0-0039 (2.7 m coiled)
Limitation cable	B7-A2Z0-0040 (RS232 1.9 m)
Limitation cable	B7-A2Z0-0041 (USB 1.9 m)
Limitation cable	B7-A2Z0-0040 (RS232 4.5 m)
Limitation cable	B7-A2Z0-0054 (USB 4.5 m)



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Additional op is marking for Hand-held Scanner, IEC 60079-0:2017, Supply modules added