



**BUREAU  
VERITAS**



## Certificate of Conformity

(1)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 2014/34/EU

(3) Certificate Number:

**EPS 16 ATEX 1 113 X**

**Revision 1**

(4) Equipment: Hand-held scanner BCS 36\*8<sup>ex</sup>-NI B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1  
Universal Supply-Modules B7-A2Z0-0042 /-0043

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Str. 16  
97980 Bad Mergentheim, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 16TH0055.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-7:2015/A1:2018**

**EN 60079-11:2012**

**EN 60079-28:2015**

**EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

Hand-held Scanner BCS 36\*8<sup>ex</sup>-NI

**Type: B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1**



II 3G Ex ic op is IIC T4 Gc

II 3D Ex ic op is IIIC T135°C Dc IP64

Universal Supply Modules  
Cable / Bluetooth

**Type: B7-A2Z0-0042**

**Type: B7-A2Z0-0043**



II 3G Ex ec [ic] IIC T4 Gc

II 3G Ex ec IIC T4 Gc

II 3D Ex tc [ic] IIIC T80°C Dc

II 3D Ex tc IIIC T80°C Dc



Certification department of explosion protection

Hamburg, 2020-03-13

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Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 16 ATEX 1 113 X, Revision 1.



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(13)

## Annexe

(14) **Certificate of Conformity EPS 16 ATEX 1 113 X**

**Revision 1**

(15) Description of equipment:

The ultra-rugged hand-held scanner types BCS3608<sup>ex</sup>-NI corded / BCS3678<sup>ex</sup>-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<sup>ex</sup>-NI.

### Electrical data:

Types: B7-A2S4-1HP0 /-2HP1 /-1ER0 /-2ER1
BCS3608 <sup>ex</sup> -NI: 5 V / 12 V DC
BCS3678 <sup>ex</sup> -NI: 3.6 V DC; 3275 mAh
BCS3678 <sup>ex</sup> -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 DC 24 V / 0.2 A	AC 100 – 240 V, 50/60 Hz, 0.01 A / 1 W 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 :

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

### 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-A2Z0-0050 (RS232 4.5 m)
Limitation cable	B7-A2Z0-0054 (USB 4.5 m)

(16) Reference number: 16TH0055

(17) Schedule of Limitations:

Hand-held scanner BCS 36\*8<sup>ex</sup>-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 EN 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

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Hamburg, 2020-03-13

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