BARTEC

Hand-held scanner BCS3600^{ex} series

Quick Start Guide

BARTEC

Quick Start Guide - Translation

BCS3608ex-IS, BCS3678ex-IS, BCS3608ex-NI, BCS3678ex-NI

Hand-held scanner and accessories

ATEX / IECEx Zone 0 und Zone 20

ATEX / IECEx Zone 2 und Zone 22

Class I, II, III Division 2

Class I, II, III Division 1

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Proviso: Subject to technical changes. Changes, mistakes and printing errors do not substantiate any claim to damages.

Content	Pages
English	1-71

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1 Basic safety information

1.1 Information on this Quick Start Guide

Read carefully before putting the devices into operation.

The Quick Start Guide is a fixed part of the product. It must be kept in the direct vicinity of the device and the installation, operating and service staff must have access to it at all times.

The Quick Start Guide contains important information, safety instructions and test certificates which are necessary for the perfect function of the device in operation.

The Quick Start Guide is directed at all individuals concerned with the commissioning, handling and servicing of the product. The applicable guidelines and standards for areas with gas and dust atmosphere (EN/IEC 60079-17, EN/IEC 60079-19) must be observed when conducting this work.

Knowledge of the safety and warning information in this Quick Start Guide and the strict compliance with it is essential for safe installation and commissioning. Accidents, injuries and material damage can be avoided by circumspect handling and systematically following the instructions.

The examples, tables, and figures provided in this Quick Start Guide are for illustration purposes. Due to the different requirements of the respective application, the BARTEC company cannot assume responsibility or liability for actual use based on the examples and figures.

The BARTEC company reserves the right to carry out technical changes at any time.

In no event will BARTEC company be responsible or liable for indirect or consequential damages resulting from the use or application of this Quick Start Guide.

Safety and warning information is particularly emphasised in this Quick Start Guide and marked by symbols.

DANGER

DANGER describes a directly imminent danger. If not avoided, death or severe injury will be the consequence.

WARNING

WARNING describes a possibly imminent danger. If not avoided, death or severe injury may be the consequence.

CAUTION

CAUTION describes a possibly imminent danger. If not avoided, mild or slight injury may be the consequence.

ATTENTION

ATTENTION describes a possibly damaging situation. If not avoided, the plant or objects in its vicinity may be damaged.

Important information on effective, economical & environmentally compliant handling.

1.1.1 Languages

The original Quick Start Guide is written in German. All other available languages are translations of the original Quick Start Guide.

The Quick Start Guide is available in German and English. If further languages are required, these must be requested from BARTEC or stated on placing an order.

1.1.2 Changes in the document

BARTEC reserves the right to change the content of this document without notification. No warranty is assumed for the correctness of the information. In cases of doubt, the German safety instructions apply because it is not possible to rule out errors of translation or printing. In the case of legal disputes, the “General Terms and Conditions of Business” of the BARTEC Group also apply.

The current versions of the datasheets, certificates and declarations of conformity can be downloaded from www.bartec.com or may be requested directly from BARTEC GmbH.

1.1.3 Registered trademarks

Bluetooth®	is a registered trademark of Bluetooth Special Interest Group
WiFi	is a registered trademark of Wi-Fi-Alliance, an association of manufacturers founded in 1999.

1.2 Handling the product

The product described in this Quick Start Guide left the factory in a perfect and tested state in terms of safety. To maintain this state and to achieve a perfect and safe operation of this product, it may only be operated in the manner described by the manufacturer. In addition, the perfect and safe operation of this product requires correct transportation, proper storage and careful operation.

The safe and perfect handling of the Hand-held scanner is a prerequisite for its perfect and correct functioning.

1.3 Intended use

1.3.1 Exclusive purpose

The Hand-held scanner is a handheld piece of electrical equipment. It serves the purpose of the mobile recording, processing and/or radio transmission of data within potentially explosive atmospheres.

It is used exclusively in combination with devices which comply with the requirements placed on the overvoltage category I.

The admissible operating data of the device used must be considered.

1.3.2 Unintended use

Any other use is unintended and may lead to damage and accidents. The manufacturer shall not be liable for any use extending beyond the exclusive purpose.

1.4 Duties of the operator

The operator undertakes to only permit persons to work with the Hand-held scanner who

- are acquainted with the basic regulations on safety and accident prevention, and who have been inducted in the use of the Hand-held scanner,
- have read and understood the documentation, the safety chapter and the warnings.

The operator checks that the safety and accident prevention regulations applicable to the respective case of use have been observed.

1.5 Safety information

- Do not dry wipe or clean devices in potentially explosive atmospheres!
- Do not open devices in potentially explosive atmospheres.
- Do not replace or charge battery in potentially explosive atmospheres.
- General statutory provisions or guidelines on occupational health and safety, accident prevention provisions and environmental protection laws must be heeded, e.g. Operational Safety Ordinance (BetrSichV) and nationally applicable ordinances.
- Use suitable clothing and shoes with respect to the danger of hazardous electrostatic charges.
- Avoid heat influences outside the specified temperature range.
- Protect device from external influences! Do not expose device to caustic/aggressive liquids, vapours or spray.
- In the case of malfunction or damaged enclosure, remove the device immediately from the potentially explosive atmosphere and bring it to a safe place.

1.6 General safety information for operation

1.6.1 Maintenance

The pertinent erection and operating provisions for electrical systems must be observed! (e.g. Directive 2014/34/EU, BetrSichV and nationally applicable ordinances EN/IEC 60079-14 and the series DIN VDE 0100)!

Observe the national waste disposal regulations when disposing of the devices.

1.6.2 Servicing

No constant servicing will be necessary if operated correctly under consideration of the assembly instructions and environmental conditions.

1.6.3 Inspection

According to EN/IEC 60079-17 and EN/IEC 60079-19 the operator of electrical systems in potentially explosive atmospheres is obliged to have these inspected by an electrician to ensure correct condition.

1.6.4 Repairs

Repairs to explosion-protected devices may only be performed by authorised personnel with original spare parts and according to the state of the art.

Therfore all repairs to the Hand-held scanner have to conducted by BARTEC.

1.6.5 Commissioning

It must be checked that all components and documents are available before commissioning.

1.7 Labelling, test certificate, and standards

Labels on explosion protection and the test certificate are attached to the Hand-held scanner. Labelling see chapter: Technical Data.

The guidelines and standards applicable to the Hand-held scanner for devices and protected systems for intended use in potentially explosive atmospheres see chapter: Declaration of Conformity.

1.8 Warranty

WARNING

No changes or retrofits may be made without the written consent of the manufacturer.

If non-specified components are used, the explosion protection will no longer be guaranteed. In the case of externally procured parts, it is not guaranteed that these have been designed and manufactured in accordance with their load and requisite safety.

▶ Contact the manufacturer before any changes or retrofits to receive a release. Only use original spare and wearing parts.

The manufacturer shall exclusively assume the complete warranty only for spare parts ordered from him.

Our “General Terms and Conditions of Sale and Delivery” shall apply in principle. These shall be made available to the operator on signing of contract at the latest. Warranty and liability claims in the case of injury and damage to property shall be excluded if they are attributable to one or several of the following causes:

- Unintended use of the Hand-held scanner.
- Incorrect handling
- Failure to observe the information in the Quick Start Guide and the user manual with respect to transport, storage, commissioning, operation and service.
- Independent structural changes
- Faulty monitoring of parts subject to wear and tear.
- Incorrectly performed repairs.
- Cases of disaster through the impact of foreign bodies and force majeure.

We grant a warranty period of one year starting from the date of delivery from the Bad Mergentheim factory on the Hand-held scanner (exception: battery 6 months). The warranty period for accessories is one year starting from the date of delivery from the Bad Mergentheim factory. This warranty covers all parts of the delivery and shall be restricted to the free replacement or repair of the defective parts in our Bad Mergentheim factory. For this purpose, any packaging supplied must be kept where possible. In the case of warranty, the goods must be returned to us after written agreement using an RMA form. There shall be no claim to repair at the sight of erection.

The information contained herein refers to the explosion-protected version of the Hand-held scanner BCS3600ex.

This Quick Start Guide contains all important information on the subject of explosion protection.

Further product information on handling and commissioning can be found on the BARTEC support page: http://automation.bartec.de/mobileE.htm

1.9 Co-applicable documents

All documents are available online from the following websites:

BARTEC: www.bartec.com or http://automation.bartec.de/mobileE.htm

ZEBRA: www.zebra.com

In the event of an overlaps with Zebra, the instructions of BARTEC apply.

Document BARTEC	Explanation
User manual BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This User Manual describes the use of the Hand-held scanner BCS3600ex series.
Quick Start Guide BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This Quick Start Guide describes the safety-related information, first use and further data of the Hand-held scanner BCS3600ex series.
Data sheet BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This technical data sheet contains the most important explosion protection technical data as well as general technical data.
Document ZEBRA	**Explanation**
For DS3608 und DS3678 ▪ **Product Reference Guide** ▪ **Multicode Data Formatting and Preferred Symbol** ▪ **Advanced Data Formatting (ADF)** ▪ **Simple Serial Interface Programmer's Guide**	Instructions for commissioning, operating, configuring, programming and maintaining hand-held scanners (full information can be found on the ZEBRA support page).

1.10 Definition of terms

A few abbreviations are used in the documentation.

IS = Intrinsically Safe =>
is used as an umbrella term for the Zone 1 versions

NI = Non Incendive =>
is used as generic term for Zone 2 and Division 2 version

BCS3600ex = stands for the entire product series of explosion-protected Hand-held scanner

2 Product description

2.1 Hand-held scanner BCS3600ex series

The hand-held scanners in the BCS3600ex series are used for the mobile capture, processing and transfer of data within potentially explosive atmospheres. The data are transferred either using a connection cable (BCS3608ex) or using a Bluetooth connection (BCS3678ex).

2.1.1 Purpose of use

The hand-held scanners in the BCS3600ex series have been modified for use in the following potentially explosive atmospheres:

Configuration		Approved zone
BCS3608ex-IS (Type 17-A1S4-1HP0/****)		ATEX / IECEx Zone 0 and Zone 20
BCS3678ex-IS (Type 17-A1S4-2HP1/****)		ATEX / IECEx Zone 0 and Zone 20 Class I Division 1 Groups A, B, C and D Class II Division 1 Groups E, F and G Class III Division 1 Class I Zone 0 and Zone 20
BCS3678ex-NI (Type B7-A2S4-1**0/****)		ATEX / IECEx Zone 2 and Zone 22 NEC / CEC Class I, II, III DIV 2
BCS3608ex-NI (Type B7-A2S4-2**1/****)		

The hand-held scanners may only be used together with operating equipment that corresponds to Installation Category I.

You must comply with the permissible ambient conditions for the device used (see User Manual).

2.1.2 Comparison with ZEBRA

The certified hand-held scanners from BARTEC are based on the following hand-held scanners from ZEBRA and are mainly function-compatible:

BARTEC	ZEBRA
BCS3608ex-NI – Type B7-A2S4-1HP0	DS3608-HP with 1D-/2D-High Performance Standard Range Imager (SE4750-HP)
BCS3608ex-IS – Type 17-A1S4-1HP0	
BCS3678ex-NI – Type B7-A2S4-2HP1	DS3678-HP with 1D-/2D-High Performance Standard Range Imager (SE4750-HP)
BCS3678ex-IS – Type 17-A1S4-2HP1	
BCS3608ex-NI – Type B7-A2S4-1ER0	DS3608-ER with 1D-/2D-Extended Range Imager (SE4850-ER)
BCS3678ex-NI – Type B7-A2S4-2ER1	DS3678-ER with 1D-/2D-Extended Range Imager (SE4850-ER)

2.2 Supply modules

BARTEC offers different types of supply modules.

These are each available as versions for corded or Bluetooth handheld scanners.

The systems enable direct connection of BCS3600ex series hand scanners in the Ex area and data transfer to other PC/host systems in the Ex or safe area.

Configuration		Approved zone
Supply module for hand-held scanner BCS3600ex-IS (Type 17-A1Z0-0018) (Type 17-A1Z0-0019) (Type 17-A1Z0-0025) (Type 17-A1Z0-0028)	BARTEC	ATEX / IECEx Zone 1 and Zone 21
Supply module for hand-held scanner BCS3600ex-NI (Type B7-A2Z0-0042) (Type B7-A2Z0-0043)	BARTEC	ATEX / IECEx Zone 2 and Zone 22
Supply module for hand-held scanner BCS3600ex-NI (Type B7-A2Z0-004200US) (Type B7-A2Z0-004300US)	BARTEC	NEC / CEC Class I, II, III DIV 2

2.2.1 Configuration

Universal supply module

The Universal supply module (USM) has a terminal compartment on the output side for mains connection and data cable in Ex e design.

The USM enables a scanner to be operated directly in the Ex area and the data to be transferred to a PC/host system in the Ex area (in Ex e version) or in the safe area.

The cable routing and connection must conform to the valid installation guidelines for Ex e.

The Ex-relevant values of the Universal Supply Module are listed in the certificate and in the chapter: Ex-relevant values.

Universal supply module und scanners	Type
Universal supply module corded for hand-held scanner BCS3608ex-IS	17-A1Z0-0018
Universal supply module Bluetooth for hand-held scanner BCS3678ex-IS	17-A1Z0-0019
Universal supply module corded for hand-held scanner BCS3608ex-NI	B7-A2Z0-0042
Universal supply module corded for hand-held scanner BCS3608ex-NI VERSION: US + CANADA	B7-A2Z0-004200US
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI	B7-A2Z0-0043
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI VERSION: US + CANADA	B7-A2Z0-004300US

Supply module Ex i

The supply module Ex i has a connection compartment on the output side for mains connection in Ex e and data cable in Ex i version.

The USM enables a scanner to be operated directly in the Ex-area and the data to be transferred to another Ex i PC/Host System in the Ex area.

Important is:

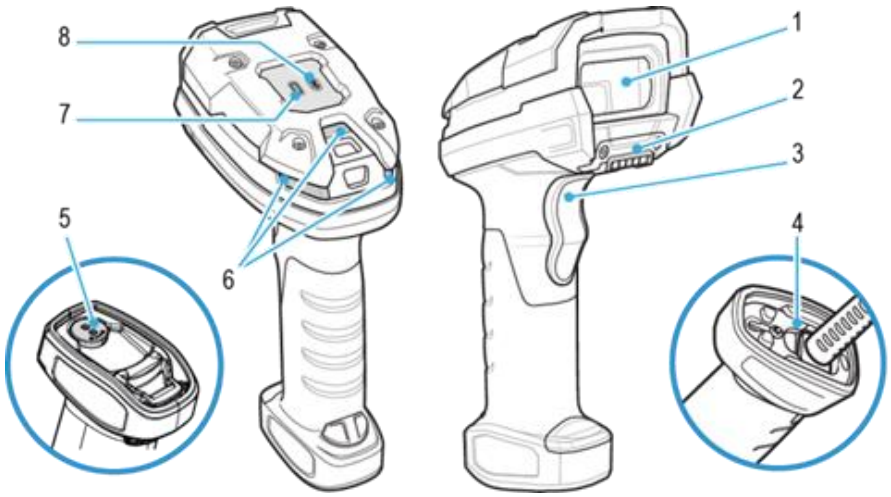
- For the mains connection an Ex e compliant cable installation and its connection.
- For the data line in Ex i version, the Ex i values of both systems must be compatible to each other. The cable routing and connection must conform to the applicable installation guidelines for Ex i.

The Ex-relevant values of the supply module Ex i are listed in the certificate and in the chapter: Ex-relevant values.

Supply module Ex i und scanners	Type
Supply module Ex i corded for hand-held scanner BCS3608ex-IS	17-A1Z0-0025
Supply module Ex i Bluetooth for hand-held scanner BCS3678ex-IS	17-A1Z0-0028

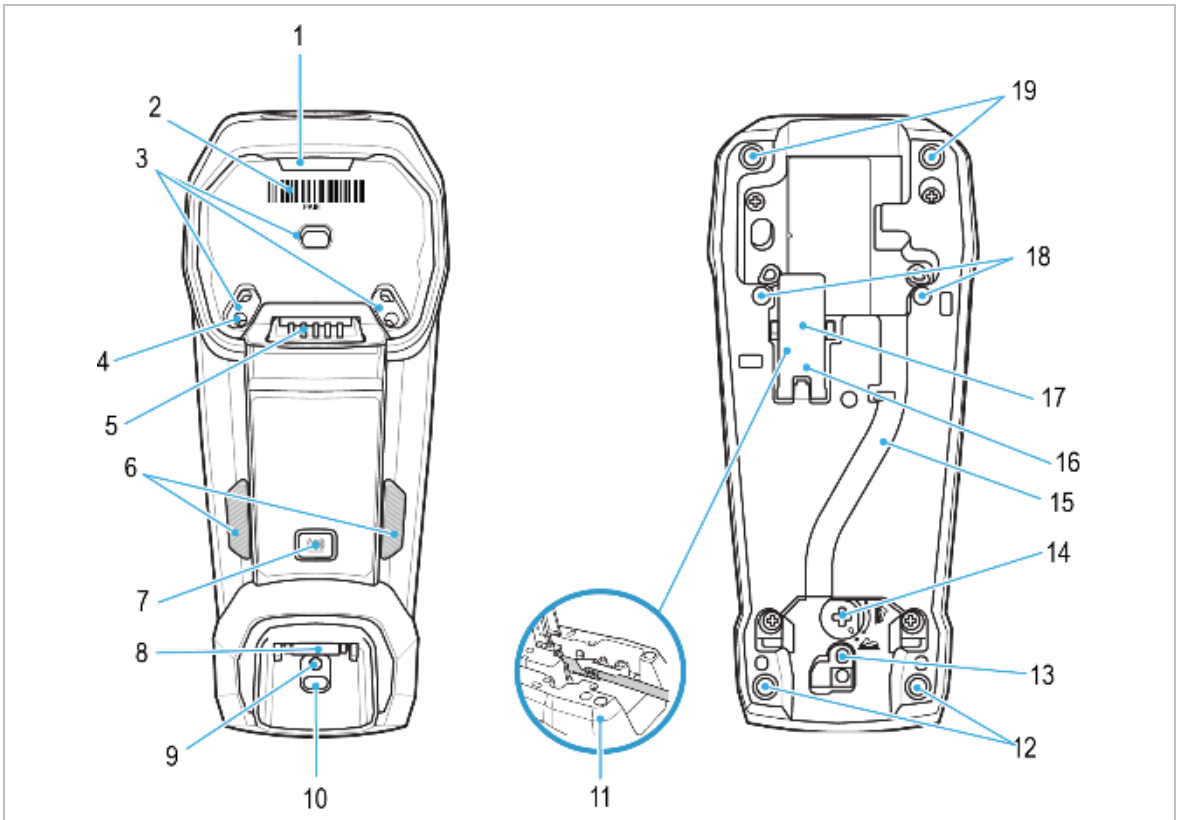
3 Structure

3.1 Hand-held scanner (corded and Bluetooth)



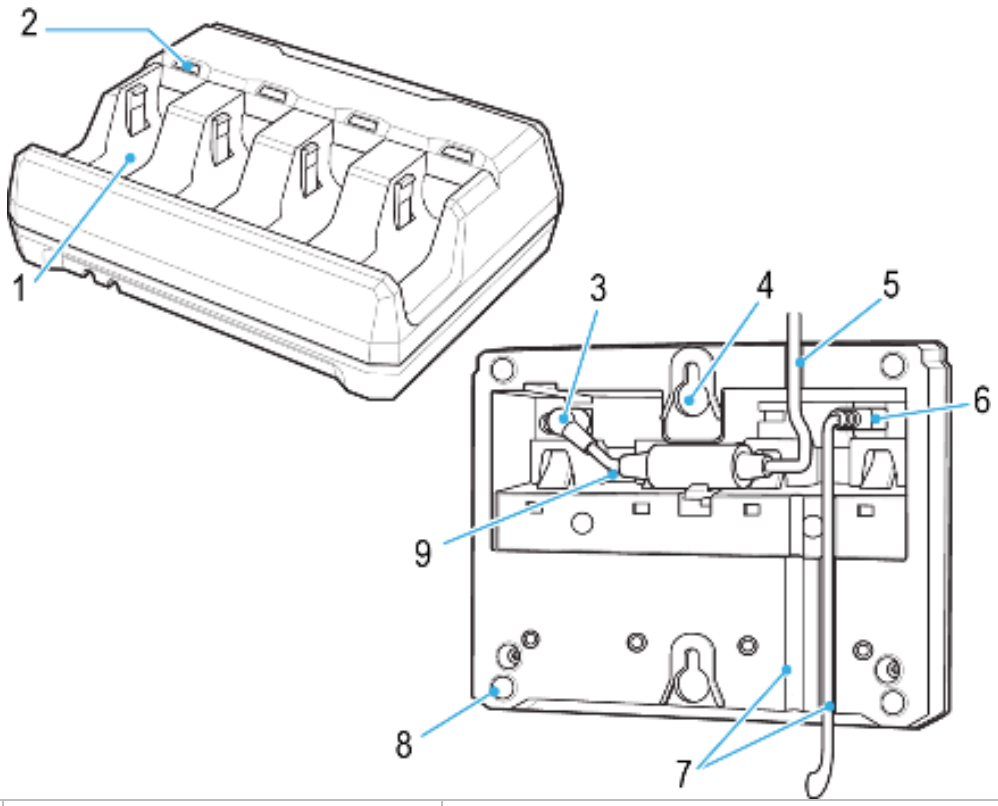
1	**Scan window**	Scanning barcodes
2	**Contact for base station**	▪ Charging the battery ▪ Transferring data to base station
3	**Trigger button**	Starting the scan process
4	**Wired hand-held scanner: safety lock**	▪ Securing the connection cable to prevent it coming unplugged ▪ Opening only possible with a Phillips screwdriver
5	**Bluetooth hand-held scanner: safety lock**	▪ Securing the battery to stop it falling out ▪ Opening only possible using special tool (included with delivery)
6	**LEDs**	Displaying the status of the hand-held scanner
7	**Bluetooth-hand-held scanner: battery LED**	Displaying the charge status of the battery
8	**Bluetooth-hand-held scanner: Bluetooth LED**	Displaying the status of the Bluetooth connection

3.2 Base station (Cradle)



1	Retainer	2	Connection code (for connection to BCS3678ex-NI / BCS3678ex-IS)
3	Holes	4	Drill holes
5	Contact	6	LEDs
7	Page-Button	8	Retainer
9	Drill hole	10	Hole
11	Connection	12	Rubber feet
13	Drill holes	14	Adjusting screw
15	Cable routing	16	Connection
17	Cover	18	Drill holes
19	Rubber feet		

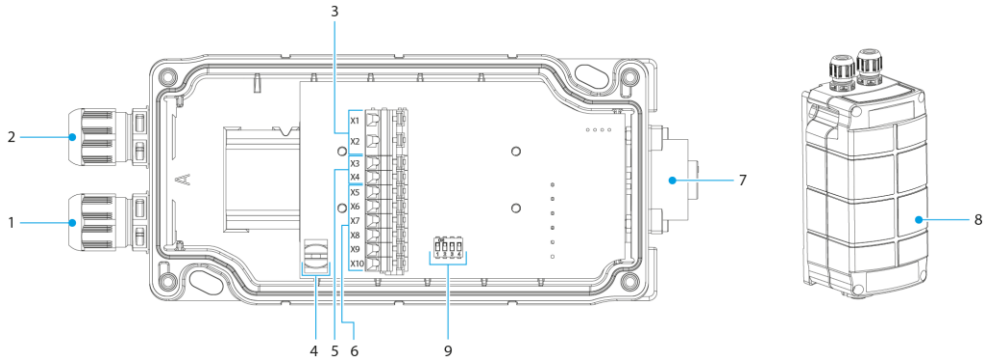
3.3 Battery charging station, 4-slot



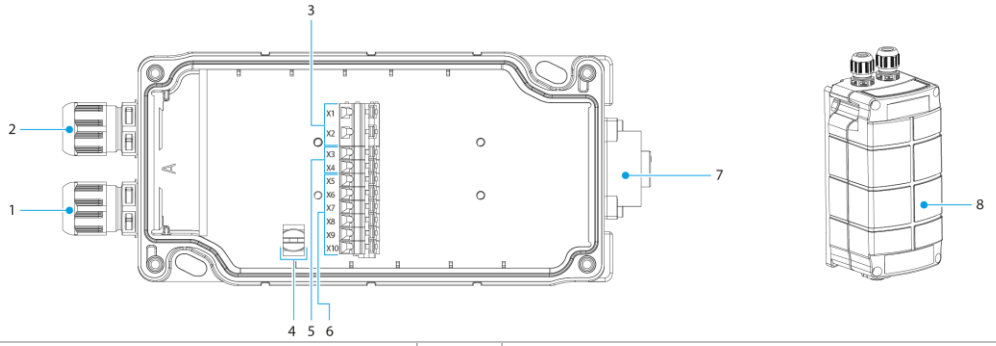
1	**Battery compartments (4)**	Inserting the battery for charging
2	**LEDs (4)**	Displaying the status of the battery charging station
3	**Connection for power supply**	Connect power supply with battery charging station
4	**Drill hole**	Mounting the battery charging station, e.g. on the wall
5	**Cable routing**	Feeding the power supply to the connection
6	**USB connection**	Connect USB cable to battery charging station
7	**Cable routing**	Feeding the cable to the connection
8	**Rubber feet (4)**	Prevent the battery charging station slipping
9	**Cable routing**	Feeding the power supply to the connection

3.4 Universal supply module corded

1st generation with DIP switch



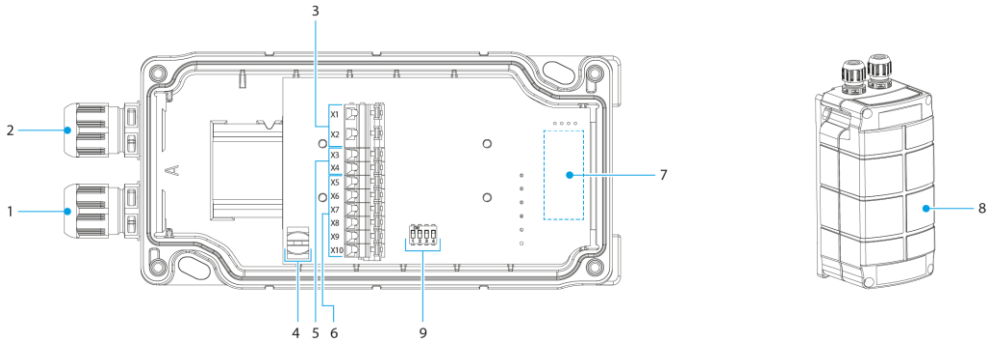
2nd generation without DIP switch



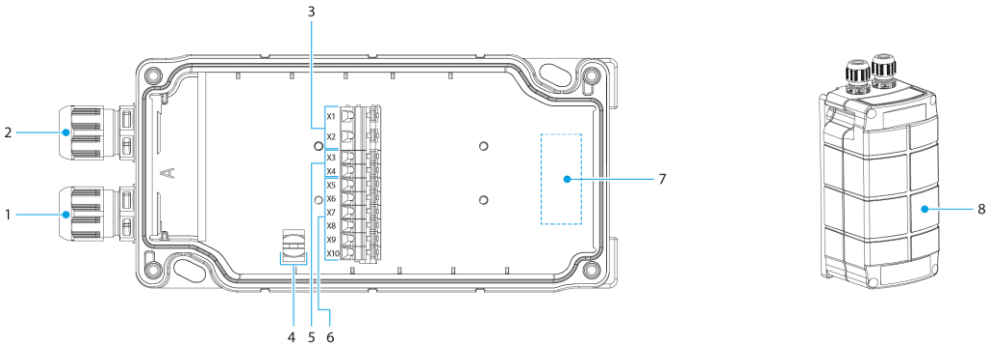
1	Cable gland	2	Cable gland
3	Terminals X1 to X2	4	Shield clamp
5	Terminals X3 to X4	6	Terminals X5 toX10
7	7-pole round plug	8	Cover
9	DIP switch		

3.5 Universal supply module Bluetooth

1st generation with DIP switch

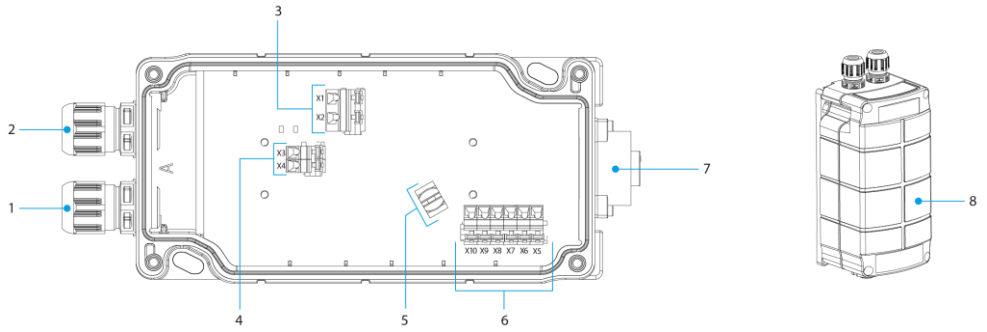


2nd generation without DIP switch



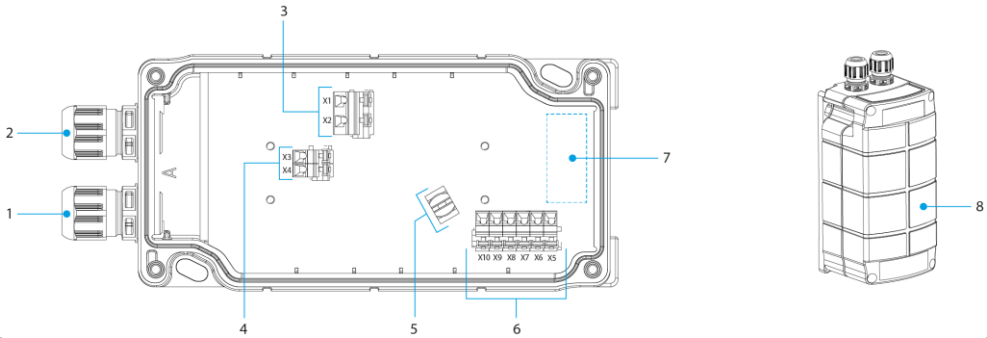
1	Cable gland	2	Cable gland
3	Terminals X1 to X2	4	Shield clamp
5	Terminals X3 to X4	6	Terminals X5 toX10
7	Bluetooth module	8	Cover
9	DIP switch		

3.6 Supply module Ex i corded



1	Kabelverschraubung	2	Cable gland
3	Klemmen X1 bis X2	4	Terminals X3 to X4
5	Shield clamp	6	Terminals X5 to X10
7	7-pole round plug	8	Cover

3.7 Supply module Ex i Bluetooth



1	Kabelverschraubung	2	Cable gland
3	Klemmen X1 bis X2	4	Terminals X3 to X4
5	Shield clamp	6	Terminals X5 to X10
7	Bluetooth module	8	Cover

4 Technical data

4.1 Explosion protection IS

4.1.1 Hand-held scanner BCS3608ex-IS (Type: 17-A1S4-1HP0/****)

ATEX Zone 0 / 20	
Labelling	II 1G Ex ia ma op is IIC T4 Ga II 1D Ex ia ma op is IIIC T135°C Da IP 64
Test certificate	EPS 18 ATEX 1 199 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 0 / 20	
Labelling	Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64
Test certificate	IECEx EPS 18.0100X
Standards	see chapter: EU Declaration of Conformity

4.1.2 Hand-held scanner BCS3678ex-IS (Type: 17-A1S4-2HP1/****)

ATEX Zone 0 / 20	
Labelling	II 1G Ex ia ma op is IIC T4 Ga II 1D Ex ia ma op is IIIC T135°C Da IP 64
Test certificate	EPS 17 ATEX 1 177 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 0 / 20	
Labelling	Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64
Test certificate	IECEx EPS 17.0090X
Standards	see chapter: EU Declaration of Conformity
Zone 0 / 20 and Class I, II, III Division 1	
Labelling CNL USL Class I, II. III Division 1	 Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64 Zone 0 AEx ia ma op is IIC T4 Ga Zone 20 AEx ia ma op is IIIC T135°C Da Class I, Division 1, Groups A, B, C and D Class II, Division 1, Groups E, F and G Class III, Division 1
Test certificate	E226123
Standards USA Standard National Standard of Canada	 UL 60079-0, Seventh Edition UL 60079-11, Sixth Edition UL 60079-18, Fourth Edition UL 60079-28, Second Edition CAN/CSA C22.2 No. 60079-0:19 CAN/CSA C22.2 No. 60079-11:14 CAN/CSA C22.2 No. 60079-18:16 CSA C22.2 No. 60079-28:16

4.1.3 Universal supply module for BCS3608ex-IS (Type: 17-A1Z0-0018/****)

ATEX Zone 1 / 21	
Labelling	II 2(1)G Ex eb ma [ia Ga] IIC T4 Gb II 2(1)D Ex tb [ia Da] IIIC T80°C Db
Test certificate	EPS 18 ATEX 1 013 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 1 / 21	
Labelling	Ex eb ma [ia Ga] IIC T4 Gb Ex tb [ia Da] IIIC T80°C Db
Test certificate	IECEx EPS 18.0009X
Standards	see chapter: EU Declaration of Conformity

4.1.4 Universal supply module for BCS3678ex-IS (Type: 17-A1Z0-0019/****)

ATEX Zone 1 / 21	
Labelling	II 2G Ex eb ma IIC T4 Gb II 2D Ex tb IIIC T80°C Db
Test certificate	EPS 18 ATEX 1 013 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 1 / 21	
Labelling	Ex eb ma IIC T4 Gb Ex tb IIIC T80°C Db
Test certificate	IECEx EPS 18.0009X
Standards	see chapter: EU Declaration of Conformity

4.1.5 Supply module Ex i for BCS3608ex-IS (Typ: 17-A1Z0-0025/****)

ATEX Zone 1 / 21	
Labelling	II 2(1)G Ex eb ib ma [ia Ga] IIC T4 Gb II 2(1)D Ex tb ib [ia Da] IIIC T80°C Db
Test certificate	EPS 18 ATEX 1 013 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 1 / 21	
Labelling	Ex eb ib ma [ia Ga] IIC T4 Gb Ex tb ib [ia Da] IIIC T80°C Db
Test certificate	IECEx EPS 18.0009X
Standards	see chapter: EU Declaration of Conformity

4.1.6 Supply module Ex i for BCS3678ex-IS (Type: 17-A1Z0-0028/****)

ATEX Zone 1 / 21	
Labelling	II 2G Ex eb ib ma IIC T4 Gb II 2D Ex tb ib IIIC T80°C Db
Test certificate	EPS 18 ATEX 1 013 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 1 / 21	
Labelling	Ex eb ib ma IIC T4 Gb Ex tb ib IIIC T80°C Db
Test certificate	IECEx EPS 18.0009X
Standards	see chapter: EU Declaration of Conformity

4.1.7 Special conditions for Explosion protection IS

WARNING - Explosion Hazard / *ADVERTISSEMENT - Risque d'explosion*

X – labelling / *étiquetage*

Special conditions of use for secure operation within the potentially explosive atmosphere!

Conditions particulières d'utilisation pour un fonctionnement sûr dans une atmosphère potentiellement explosive!

Battery shall only be changed or charged in an area known to be non-hazardous.

La batterie doit être changée ou chargée uniquement dans une zone connue pour être non dangereuse.

Ensure that the battery cover is closed and locked in hazardous locations.

Assurez-vous que le couvercle de la batterie est fermé et verrouillé dans les à zones dangereuses.

Programming shall only be done in an area known to be non-hazardous.

La programmation ne doit se faire que dans une zone connue pour être non dangereuse.

The device shall be protected against impacts with high impact energy *, against permanent UV-light ** and high electrostatic charge generating processes. ***

*Le produit doit être protégé contre les chocs à haute énergie d'impact *, contre la lumière UV permanente ** et les processus générant des charges électrostatiques élevées. ****

The Quick Start Guide shall be observed.

Le guide de démarrage rapide doit être respecté.

The non-Ex-relevant accessories may not be used in hazardous areas.

Les accessoires non pertinents pour l'Ex ne doivent pas être utilisés dans les zones dangereuses.

* Ensure the device is not impacted by more than 2 Joules as tested according to the Ex standards. Check the device before using it in the hazardous area.

In the case of function disturbances or damage to the enclosure, the device should be removed immediately from the potentially explosive atmosphere to a safe place.

Assurez-vous que l'appareil n'est pas soumis à un impact de plus de 2 Joules selon les tests effectués conformément aux normes Ex. Vérifiez l'appareil avant de l'utiliser dans la zone dangereuse.

En cas de perturbations fonctionnelles ou d'endommagement du boîtier, le dispositif doit être immédiatement retiré de l'atmosphère potentiellement explosive et placé dans un endroit sûr.

** The housing material is suitable for outdoor usage in respect to ultraviolet light, but the device is not certified for continuous outdoor usage.

Le matériau du boîtier est adapté à une utilisation extérieure en ce qui concerne les rayons ultraviolets, mais l'appareil n'est pas certifié pour une utilisation extérieure continue.

*** The device must not be used in processes that generate strong charges. These can occur in particular with electrostatic painting, pneumatically conveyed dust, flowing liquids and droplets, machine-driven belts, brushes and foils, etc.

L'appareil ne doit pas être utilisé dans des processus qui génèrent des charges importantes. Cela peut notamment se produire dans le cas de peinture électrostatique, de poussière transportée par voie pneumatique, de liquides et de gouttelettes qui s'écoulent, de courroies, de brosses et de feuilles entraînées par des machines, etc.

4.2 Explosion protection NI

4.2.1 Hand-held scanner BCS3608ex-NI and BCS3678ex-NI (Type: B7-A2S4-****/****)

ATEX Zone 2 / 22	
Labelling	II 3G Ex ic op is IIC T4 Gc II 3D Ex ic op is IIIC T135°C Dc IP 64
Test certificate	EPS 16 ATEX 1113 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 2 / 22	
Labelling	Ex ic op is IIC T4 Gc Ex ic op is IIIC T135°C Dc IP 64
Test certificate	IECEx EPS 16.0050X
Standards	see chapter: EU Declaration of Conformity
NEC/CEC Div 2	
Labelling	Class I Div. 2 Groups A, B ,C and D Class II Div. 2 Group F, G Class III T4 Conforms to ANSI/UL Std. 60950 Cert. to CAN/CSA Std. C22.2 No. 60950
Test certificate	5012876

4.2.2 Universal supply module for BCS3608ex-NI (Type: B7-A2Z0-0042/****)

ATEX Zone 2 / 22	
Labelling	II 3G Ex ec [ic] IIC T4 Gc II 3D Ex tc [ic] IIIC T80°C Dc
Test certificate	EPS 16 ATEX 1113 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 2 / 22	
Labelling	Ex ec [ic] IIC T4 Gc Ex tc [ic] IIIC T80°C Dc
Test certificate	CML 21 UKEX2345X
Standards	see chapter: UK Declaration of Conformity

4.2.3 Universal supply module for BCS3608ex-NI (Type: B7-A2Z0-0042/00US)

NEC/CEC Div 2	
Labelling	Class I Div. 2 Groups A, B ,C and D Class II Div. 2 Group F, G Class III T4 Conforms to ANSI/UL Std. 60950 Cert. to CAN/CSA Std. C22.2 No. 60950
Test certificate	5012876

4.2.4 Universal supply module for BCS3678ex-NI (Type: B7-A2Z0-0043/****)

ATEX Zone 2 / 22	
Labelling	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80°C Dc
Test certificate	EPS 16 ATEX 1113 X
Standards	see chapter: EU Declaration of Conformity
IECEx Zone 2 / 22	
Labelling	Ex ec IIC T4 Gc Ex tc IIIC T80°C Dc
Test certificate	IECEx EPS 16.0050X
Standards	see chapter: EU Declaration of Conformity

4.2.5 Universal supply module for BCS3678ex-NI (Type: B7-A2Z0-0043/00US)

NEC/CEC Div 2	
Labelling	Class I Div. 2 Groups A, B ,C and D Class II Div. 2 Group F, G Class III T4 Conforms to ANSI/UL Std. 60950 Cert. to CAN/CSA Std. C22.2 No. 60950
Test certificate	5012876

4.2.6 Special conditions for Explosion protection NI

X - labelling (special conditions of use for secure operation within the potentially explosive atmosphere)
The ambient temperature range is -20 °C ≤ Ta ≤ +50 °C.* The device must be protected from impact with high impact energy, from intense UV-irradiation, and strongly charge generating processes. It is not allowed to use connectors inside the potentially explosive atmosphere.*
*See individual chapters on the items in this Quick Start Guide..

4.3 Features

4.3.1 Physical features

4.3.1.1 Hand-held scanner

Dimensions (height x width x depth)	corded: 185 mm x 76 mm x 132 mm (7.3 inch x 3.0 inch x 5.2 inch) Bluetooth: 185 mm x 76 mm x 142 mm (7.3 inch x 3.0 inch x 5.6 inch)
Weight	Hand-held scanner BCS3678ex-NI (with battery) with Scanner SE4750-HP: approx. 411 g (approx. 0.91 lb) with Scanner SE4850-ER: approx. 436 g (approx. 0.96 lb) Hand-held scanner BCS3608ex-NI (without cable) with Scanner SE4750-HP: approx. 309 g (approx. 0.68 lb) with Scanner SE4850-ER: approx. 334 g (approx. 0.74 lb) Hand-held scanner BCS3678ex-IS (with battery) approx. 491 g (approx. 1.08 lb) Hand-held scanner BCS3608ex-IS (without cable) approx. 382 g (approx. 0.84 lb)

4.3.1.2 Supply module

Dimensions (height x width x depth)	corded: 81 mm x 222 mm x 88 mm (3.2 inch x 8.7 inch x 3.5 inch) Bluetooth: 81 mm x 208 mm x 88 mm (3.2 inch x 8.2 inch x 3.5 inch)
Weight	Universal supply module NI (Zone 2) approx. 1070 g (approx. 2.36 lb) Universal supply module IS (Zone 1) approx. 1050 g (approx. 2.31 lb) Supply module Ex i approx. 1040 g (approx. 2.29 lb)

4.3.1.3 Base station

Dimensions (width x length x height)	99.8 mm x 229.4 mm x 82.6 mm (3.9 inch x 9.0 inch x 3.3 inch)
Weight	approx. 342 g (approx. 0.75 lb)

4.3.2 Ambient conditions

4.3.2.1 Hand-held scanner

Operating temperature	Corded: –20 °C to 50 °C (–4°F to 122 °F) Bluetooth: –20 °C to 50 °C (–4 °F to 122 °F)
Storage temperature (without battery)	–40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity	5 % - 95 %, condensing
Protection class (IEC 60529)	IP 65
Electrostatic discharge	EN 61000-4-2 ±25 kV discharge via air ±10 KV direct discharge ±10 kV indirect discharge
Insensitivity towards ambient light	0 to 108.000 Lux (direct sun radiation)
Maximum operating height	High altitude up to 2000 m above sea level (normal altitude zero)
Mounting position/alignment:	hand-held equipment

For further technical data see technical data sheet.

4.3.2.2 Supply modules

Operating temperature	–20 °C to 50 °C (–4 °F to 122 °F)
Storage temperature	–40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity	5 % - 95 %, condensing
Protection class (IEC 60529)	IP65
Electrostatic discharge	EN 61000-4-2 ±25 kV discharge via air ±10 KV direct discharge ±10 kV indirect discharge
Insensitivity towards ambient light	0 to 108.000 Lux (direct sun radiation)
Maximum operating height	High altitude up to 2000 m above sea level (normal altitude zero)
Mounting position/alignment	permanently installed, no fixed alignment
Protection against dangerous body currents (overvoltage category)	The universal supply module and the supply module Ex i correspond to overvoltage category 2 and pollution degree 1.

For further technical data see technical data sheet.

4.3.2.3 Battery

Operating temperature	–20 °C to 50 °C (–4 °F to 122 °F)
Storage temperature	–20 °C to 50 °C (–4 °F to 122 °F)
Charging temperature (nominal)	0 °C to 40 °C (32 °F to 104 °F)
Charging temperature (ideal)	5 °C to 35 °C (41 °F to 95 °F)
Relative humidity	5 % - 95 %, condensing
UN38.3 compliant	Yes
Maximum operating height	High altitude up to 2000 m above sea level (normal altitude zero)

For further technical data see technical data sheet.

4.3.2.4 Base station

Operating temperature	–20 °C to 50 °C (–4 °F to 122 °F)
Operating temperature during charging (nominal)	0 °C to 40 °C (32 °F to 104 °F)
Operating temperature during charging (ideal)	5 °C to 35 °C (41 °F to 95 °F)
Storage temperature	–40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity	5 % - 95 %, condensing
Protection class (IEC 60529)	IP65
Maximum operating height	High altitude up to 2000 m above sea level (normal altitude zero)

For further technical data see technical data sheet.

4.3.2.5 Battery charging station, 4-slot

Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating temperature during charging (nominal)	0 °C to 40 °C (32 °F to 104 °F)
Operating temperature during charging (ideal)	5 °C to 35 °C (41 °F to 95 °F)
Storage temperature	–40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity	5 % - 95 %, condensing
Protection class (IEC 60529)	IP65
Maximum operating height	High altitude up to 2000 m above sea level (normal altitude zero)

For further technical data see technical data sheet.

4.4 Ex-relevante values

4.4.1 Connection HMI limiting cable to Ex HMI or other Ex systems - Zone2

This section lists the Ex relevant parameters that are relevant for connecting the BCS3608ex-NI corded handheld scanner to an Ex HMI or to Ex systems.

Cable for power supply and data line in Ex e:

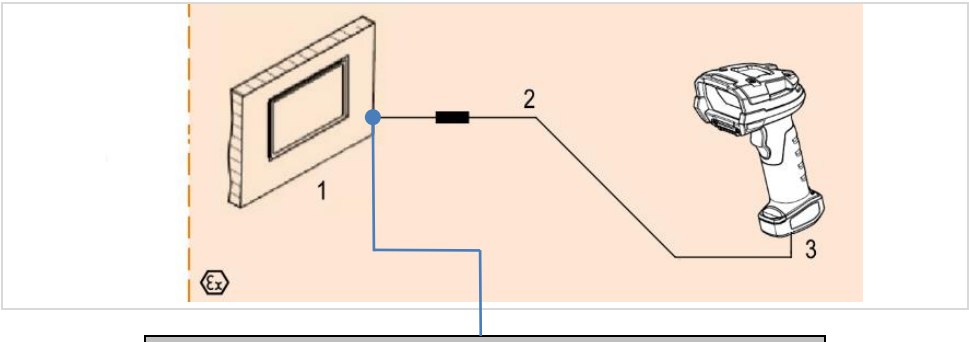
Must be mechanically protected for installation.

Plug connection (USB or RS232):

Must be mechanically protected against accidental loosening/pulling.

Connection:

The connection must be made in an Ex-tested terminal compartment.



Ex-relevant input parameters			
for BCS3608ex-NI with scanner: SE4750-HP Type B7-A2S4-1HP0/****		for BCS3608ex-NI with Scanner: SE4850-ER Type B7-A2S4-1ER0/****	
V_{max}	*5 V ±0.2 V*	V_{max}	*5 V ±0.2 V*
I_{max}	*1 A*	I_{max}	*1 A*

Available HMI limiting cables:

Type	Description	available for use in hazardous	
		ATEX/IECEx Zone 2/22	Class I, II, III Division 2
B7-A2Z0-0041	HMI limiting cable 1.9 m (plain) USB Connection between HMI and hand-held scanner BCS3608ex-NI, with open cable ends	Yes	Yes
B7-A2Z0-0054	HMI limiting cable 4.5 m (plain) USB Connection between HMI and hand-held scanner BCS3608ex-NI, with open cable ends	Yes	Yes
B7-A2Z0-0040	HMI limiting cable 1.9 m (plain) RS232 Connection between HMI and hand-held scanner BCS3608ex-NI, with open cable ends	Yes	Yes
B7-A2Z0-0050	HMI limiting cable 4.5 m (plain) RS232 Connection between HMI and hand-held scanner BCS3608ex-NI, with open cable ends	Yes	Yes

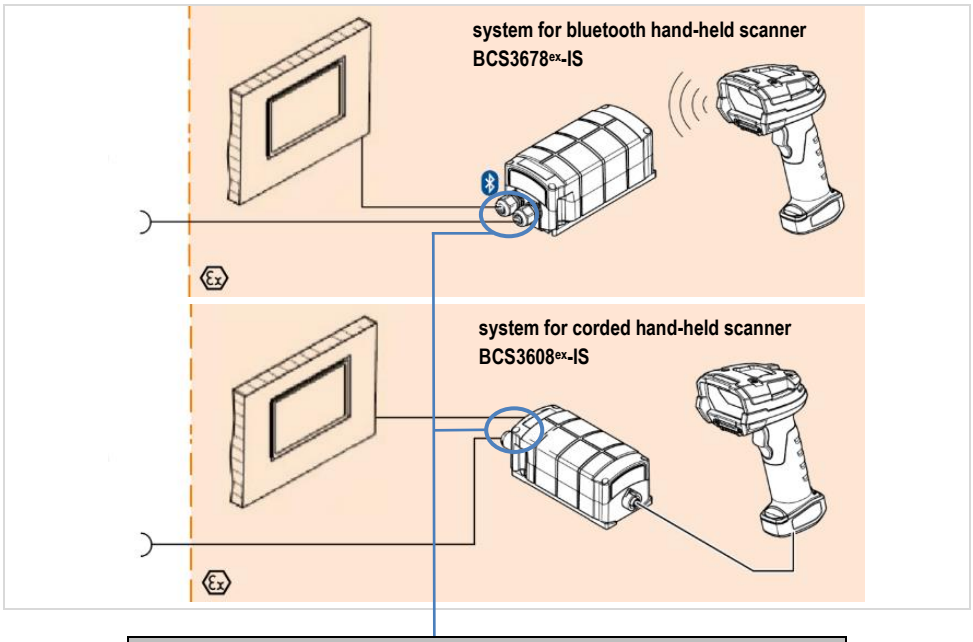
Ex-relevant and functional parameters necessary for the function:

- USB interface must provide 5 V/500 mA on the output side.
- RS232 interface needs a separate power supply with 5 VDC/500 mA.

If these values are not provided by the interface, the connection can be realized via a universal supply module.

4.5 Connection of supply module Ex i to other Ex systems

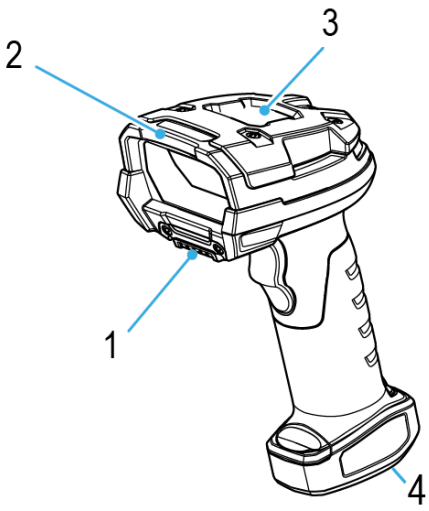
This section lists the Ex-relevant parameters that are relevant for connecting the supply module Ex i to another Ex system.

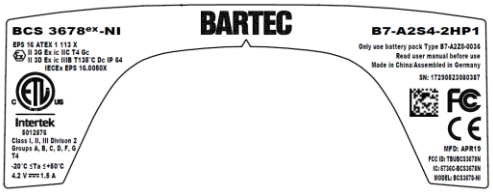


Ex-relevant input parameters for supply module Ex i	
Input	**Ex version**
Power supply	Ex e
Data cable	Ex i (passive) USB-SPP (Serial Port Profile) RS232 (only TxD)
Type: 17-A1Z0-0025/**** ***Type: 17-A1Z0-0028/*******	
U_i	*6 V_{DC}*
I_i	*500 mA*
P_i	*2 W*
C_i	*5,7 µF*
L_i	*0 µH*

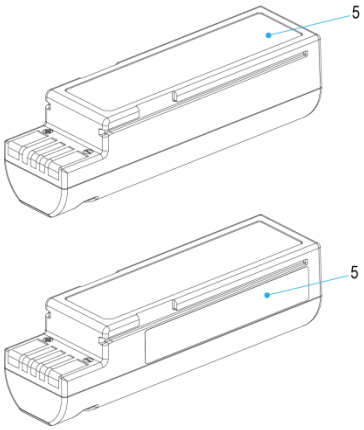
4.6 Product labelling

4.6.1 Hand-held scanner

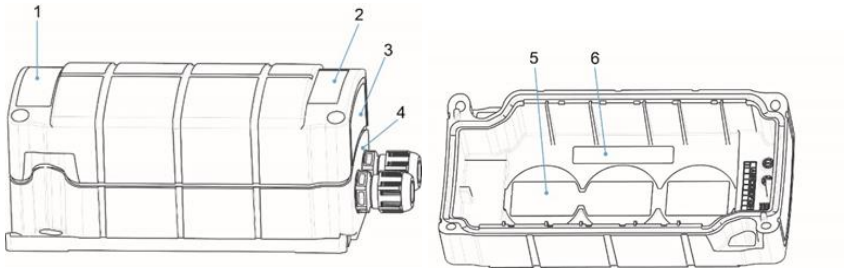


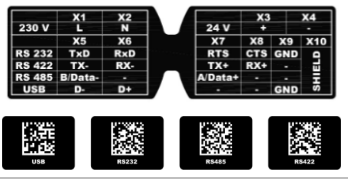
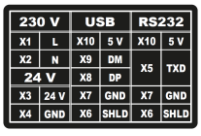
1	Type label *(here: BCS3678ex-NI)*	
2	Laser warning	
3	Product designation BCS3678ex-IS BCS3608ex-IS	
	Product designation BCS3678ex-NI BCS3608ex-NI	
4	*Only Bluetooth version:* Warning opening battery compartment	

4.6.2 Battery

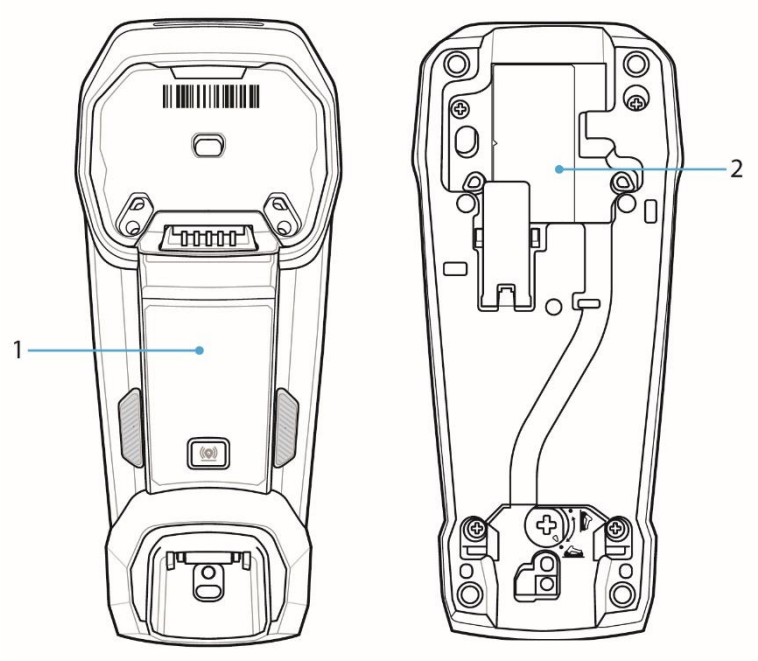
	Zone 0/20, Div 1 (Type 17-A1Z0-0012) Zone 2/20; Div 2 (Type B7-A2Z0-0036)	
5	*Only for Zone 1:* Information on the use	
5	*Only for Zone 2:* Information on the use	

4.6.3 Supply module



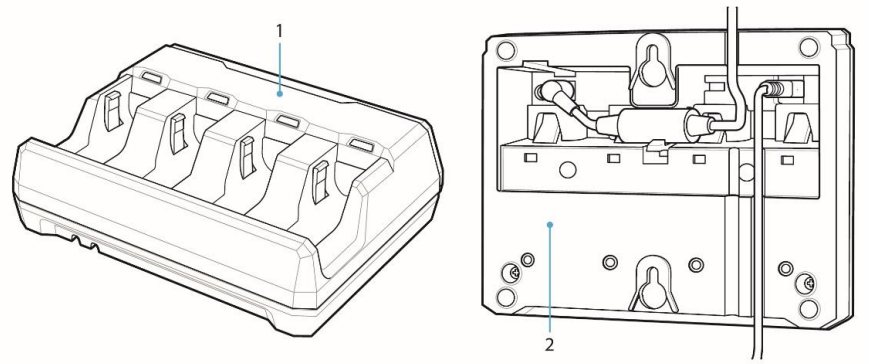
1	Type label *(here: Universal supply module, corded, for BCS3608ex-NI)*	
2	Product designation IS Bluetooth corded	
	Product designation NI Bluetooth corded	
3	*Only for Bluetooth-Version:* Scan to Connect Barcode For connecting the supply module with the scanner	
4	In the supply module: Serial number barcode	
5	*Only Generation 1 - with DIP switch:* Label for terminal assignment Label for setting the DIP switch	
	Only Generation 2 - without DIP switch: Label for terminal assignment Programming barcode for interfaces	
	Only supply module Ex i: Label for terminal assignment	
6	*Only Bluetooth version:* Master Barcode	

4.6.4 Base station



1	Product designation IS	
	Product designation NI	
2	*Only for Zone 1:* Type label	

4.6.5 Battery charging station



1	Product designation IS	BARTEC 4-slot battery charging station Type 17-A1Z0-0013 Only for charging battery Type 17-A1Z0-0012
	Product designation NI	BARTEC 4-slot battery charging station Type G7-A0Z0-0013 Only for charging battery Type B7-A2Z0-0036/-0058
2	*Only for Zone 1:* Type label	4-slot battery charging station Type 17-A1Z0-0013 Input: 12 V ⎓ 1 A Output: 4.2 V ⎓ 0.65 A SN: 20xx20xx00xx04 Read user manual before use Only for charging the battery Type 17-A1Z0-0012 Only use the Power supply with DC connecting cable Type G7-A0Z0-0019 BARTEC 97980 Bad Mergentheim Germany www.bartec.com Made in Germany MFD: APR20 CE 0044

5 Transport and storage

5.1 Transport

Report any transport damage or incomplete deliveries immediately after receipt in writing to the forwarding company and BARTEC GmbH.

Any damage caused through incorrect storage shall not be covered by the warranty provisions of BARTEC GmbH.

Battery is UN38.3 conform.

Due to the transport guidelines for air freight, all batteries are delivered ex works charged to max. 30 %.

Further information, like MSDS, can be found at

http://automation.bartec.de/indexE.htm

5.2 Storage

ATTENTION

Property damage through incorrect storage!

- ▶ Observe storage temperatures.
- ▶ Keep humidity away from the Hand-held scanner.

Additional information on the batteries

The batteries from BARTEC are developed and manufactured in accordance with the highest industrial standards. The operating time or storage period of a battery is restricted, however. The actual life of a battery is influenced by different factors, e.g. hot, cold, rough operating environment and falling from a great height. If a battery is kept longer than six months, the performance may be impaired on a permanent basis. Keep the batteries in a dry, cool place. For longer periods of storage, remove the batteries from the device to prevent self-discharge, rusting of the metallic and the escape of electrolyte.

Batteries kept for a duration of six months or longer should be charged and discharged again at least every three months. If electrolyte has escaped, do not touch the areas affected and dispose of the batteries as prescribed. Replace the battery if the operating time has shortened considerably.

The standard warranty period for all BARTEC batteries is six months, whereby it is irrelevant whether the battery was acquired separately or was contained in the scope of the delivery of the Hand-held scanner.

6 Commissioning

DANGER

Avoid electrostatic charging in potentially explosive atmosphere.
Danger to life in explosive atmosphere!

- ▶ Do not dry wipe or clean the devices.
- ▶ Wear suitable clothing and shoes.
- ▶ Do not use rubber gloves or similar.

DANGER

Unintended use endangers explosion protection.
Danger to life in explosive atmosphere!

- ▶ Do not make any changes to the Hand-held scanner.
- ▶ In the case of function disturbances or damage to the enclosure, the device should be removed immediately from the potentially explosive atmosphere to a safe place. Remove battery to decommission the device!
- ▶ Do not use any battery replicas or batteries from other manufacturers.

ATTENTION

No mixing of accessories!

- ▶ Only use accessories specified by BARTEC for the corresponding zones
  Accessories that are specified for zone 1 should only be used with the corresponding hand-held scanners.
  Accessories that are specified for zone 2 should only be used with the corresponding hand-held scanners.
- ▶ Mixing the accessories can result in irreparable damage to the hand-held scanner or accessories. In this case, the explosion protection of the hand-held scanner and the Ex-certified accessories cannot be guaranteed.

6.1 Requirements in potentially explosive atmosphere

WARNING - Explosion Hazard / *ADVERTISSEMENT - Risque d'explosion*

Special conditions of use for secure operation within the potentially explosive atmosphere!

Conditions particulières d'utilisation pour un fonctionnement sûr dans une atmosphère potentiellement explosive!

Hand-held scanner

- The Hand-held scanner may not be opened.
  Le scanner portatif ne doit pas être ouvert.
- Do not use, swap or replace any non-specified components.
  Utilisez, échangez ou remplacez aucun composant non spécifié.
- Substitution of components may impair intrinsic safety.
  La substitution des composants peut nuire à la sécurité intrinsèque.
- Protect the Hand-held scanner from impact!
  Protégez le scanner portatif contre les chocs!
- Do not expose the Hand-held scanner to caustic/aggressive liquids, vapours, mists!
  Ne pas exposer le scanner portatif à des liquides corrosifs/agressifs, des vapeurs, des brouillards!
- Avoid the impact of moisture outside the specifications.
  Évitez l'exposition à l'humidité en dehors des spécifications.
- Avoid thermal impact outside the specified temperature range.
  Évitez les influences thermiques en dehors de la plage de température spécifiée.

Accessories

- Only install or replace accessories outside the potentially explosive atmosphere.
  Installez ou remplacez les accessoires uniquement en dehors de l'atmosphère potentiellement explosive.
- User accessories exclusively which have been tested or certified by BARTEC for this purpose.
  Les accessoires de l'utilisateur exclusivement qui ont été testés ou certifiés par BARTEC à cette fin.

Battery

- Do not short circuit the battery!

  Ne court-circuitez pas la batterie!
- Only charge and change the battery outside the potentially explosive atmosphere.

  Ne chargez et ne changez la batterie qu'en dehors de l'atmosphère potentiellement explosive.
- Only use the battery for the purpose listed in this Quick Start Guide and they are only suitable for the hand-held scanner type 17-A1S*-****/****.

  Utilisez la batterie uniquement pour l'usage indiqué dans ce guide de démarrage rapide et elle ne convient qu'au scanner portatif de type 17-A1S-****/****.*
- To charge the battery, the charging temperature must be between 0°C and 40°C (32°F and 104°F).

  Ideal charging temperature is between 5°C and 35°C (41°F and 95°F).

  Pour charger la batterie, la température de charge doit être comprise entre 0°C et 40°C (32°F et 104°F).

  La température de charge idéale se situe entre 5°C et 35°C (41°F et 95°F).
- The battery must be locked within the potentially explosive atmosphere.

  La batterie doit être enfermée dans l'atmosphère potentiellement explosive.
- The battery may present a risk of fire or chemical burn if mistreated.

  La batterie peut présenter un risque d'incendie ou de brûlure chimique en cas de mauvais traitement.
- Do no disassemble, heat above +50 °C (+122 °F) or incinerate.

  Ne pas démonter, chauffer au-dessus de +50 °C (+122 °F) ou incinérer.
- Replace battery with battery type 17-A1Z0-0012 only. Use of another battery may present a risk of fire or explosion.

  Remplacez la batterie par une batterie de type 17-A1Z0-0012 uniquement. L'utilisation d'une autre pile peut présenter un risque d'incendie ou d'explosion.
- Dispose of used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire

  Mettez rapidement au rebut la batterie usagée. Tenir hors de portée des enfants. Ne pas démonter et ne pas jeter au feu".
- Defective batteries must be disposed of immediately, whereby the provisions on battery disposal applicable in the respective region must be observed.

  Les batteries défectueuses doivent être éliminées immédiatement, en respectant les dispositions relatives à l'élimination des batteries en vigueur dans la région concernée.

6.2 First steps

- ▶ Unpack the Hand-held scanner.
- ▶ **Corded Hand-held scanner:**

  Connect the corded hand-held scanner.
- ▶ **Bluetooth Hand-held scanner:**
- ▶ Insert and charge the battery into the hand-held scanner.

  or

  charge the battery and then insert it into the Bluetooth handheld scanner.

  Use one of the following accessories to charge:

Description	Charging process	
	Battery (in the hand-held scanner)	Spare battery
Zone 0/20, Div 1		
Base station Type: 17-A1Z0-0014	Yes	No
4-slot battery charging station Type: 17-A1Z0-0013	No	Yes
Zone 2/20; Div 2		
Base station Typ: G7-A0Z0-0010	Yes	No
4-slot battery charging station Type: G7-A0Z0-0013	No	Yes

ACHTUNG

Damage to the battery when using non-specified chargers!

- ▶ Only use chargers and accessories specified by BARTEC for charging the battery, because the batteries and chargers are ex technically modified.

6.3 Corded hand-held scanner BCS3608ex-NI / BCS3608ex-IS

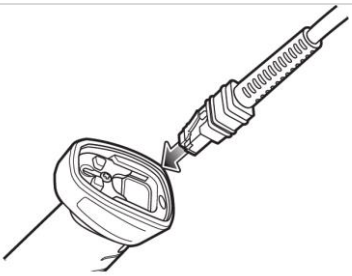
6.3.1 Connecting the connection cable to the hand-held scanner

DANGER

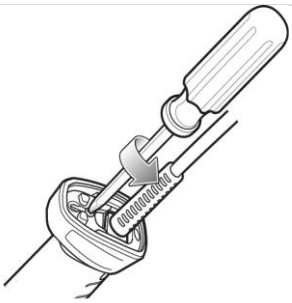
Spark formation when connecting a cable!

- ▶ Always have cables connected by a qualified electrician.
- ▶ Only connect or disconnect a cable in the potentially explosive atmosphere when the cable is not connected to the power supply.
- ▶ If the cable cannot be disconnected from the power supply, only connect or disconnect the cable outside the potentially explosive atmosphere.

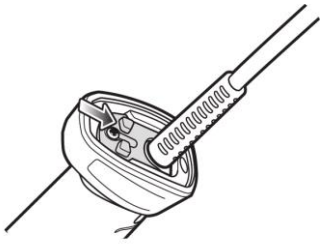
1. Insert the connection cable completely in the hand-held scanner.



2. Insert the plug until it lies flush with the surface of the hand-held scanner.
3. Unscrew the Phillips screw on the safety lock.



4. Push the safety lock into the closed position.

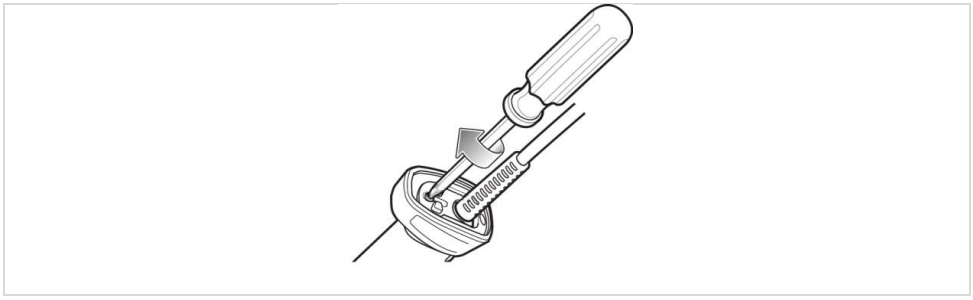


DANGER

Spark formation caused by the connection cable coming unplugged!

- ▶ Close the safety lock carefully.

5. Screw the Phillips screw on the safety lock tight.



6.4 Bluetooth Hand-held scanner BCS3678ex-NI / BCS3678ex-IS

6.4.1 Insert/change battery

DANGER

Mixing up the batteries!

▶ Only use batteries that have been specified by BARTEC.

Utilisez uniquement la batterie qui a été spécifiée par BARTEC.

Spark formation when changing the battery!

▶ Only insert or remove the battery outside the potentially explosive atmosphere.

Insérez ou retirez la batterie uniquement en dehors de tout risque d'explosion.

Spark formation when charging the battery!

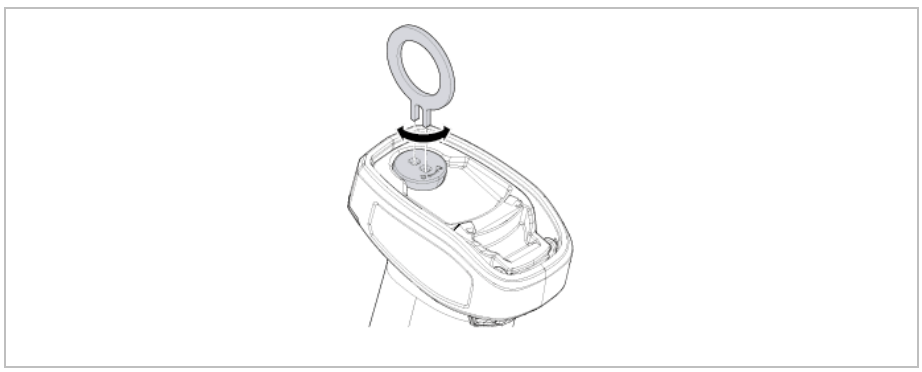
▶ Only charge the battery outside the potentially explosive atmosphere.

Chargez la batterie uniquement en dehors des zones à risque d'explosion.

Only the following batteries are approved:

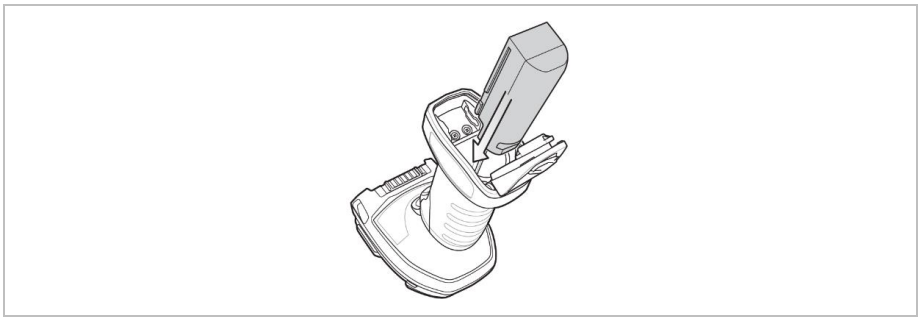
Zone / Div	Battery type
Zone 0/20, Div 1	17-A1Z0-0012
Zone 2/20; Div 2	B7-A2Z0-0036

1. Using the special tool, open the safety lock to unlock the battery compartment cover, rotating the safety lock by approximately one quarter in either direction.



2. If a battery has been inserted: remove the battery.

3. Slide the battery into the battery compartment with the battery contacts first. Make sure that the rounded side of the battery is facing the rear of the hand-held scanner.



4. Close the battery compartment cover.

DANGER

Spark formation caused by the battery falling out!

▶ Close the safety lock carefully.

5. Turn the safety lock by approximately one quarter in either direction to lock the battery compartment cover.

6.4.2 Connecting the base station on the host PC and power source

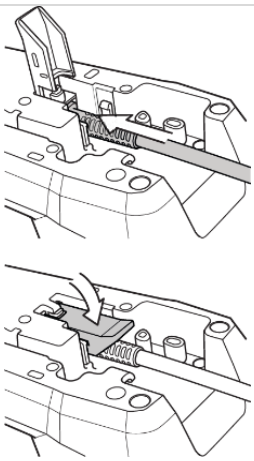
DANGER

Spark formation when connecting a cable!

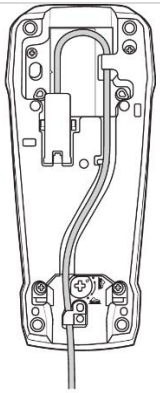
▶ Only use the base station outside potentially explosive atmosphere.

- The base station is supplied with power via the connection cable to the host PC. There is a separate socket on the connection cable to establish the power connection via the power supply (type G7-A0Z0-0019). Further information about the power supply to the base station can be found in the ZEBRA Product Reference Guide.
- Make sure that the power supply is disconnected from the power source before connecting the connection cable/data cable to the host PC. Otherwise, the base station may not be able to establish a connection with a new host PC.

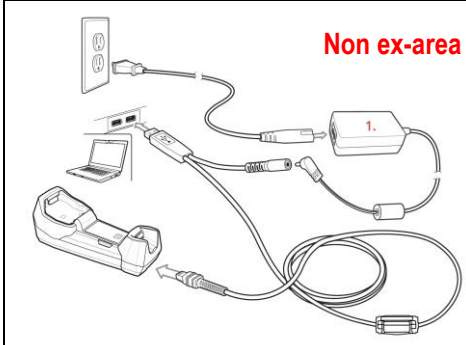
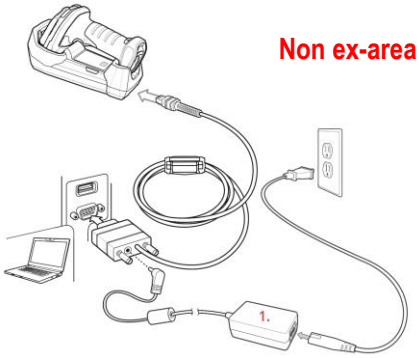
1. Connect the data cable to the host PC.
2. Open the cover, connect the data cable and close the cover.



3. Feed the connection cable through the cable gland.



4. Connect the base station to the power source.

Connection via USB	Connection via RS232
	

Needed power supply:

Part	BCS3678ex-IS ATEX / IECEx Zone 0/20 NEC Class I, II, III Division 1	BCS3678ex-NI ATEX / IECEx Zone 2/22 NEC Class I, II, III Division 2
Base station for hand-held scanner BCS3678ex Bluetooth	Type: 17-A1Z0-0014	Type: G7-A0Z0-0010
Connecting cable ▪ Connection between base station and PC ▪ With terminal for 12V power supply	RS232; 1.9 m (plain) ▪ Type: 17-A1Z0-0026 RS232; 4.5 m (plain) ▪ Type: 17-A1Z0-0027 USB; 1.9 m (plain) ▪ Type: 17-A1Z0-0020 Identical with programming cable	RS232; 2 m (plain) ▪ Type: G7-A0Z0-0014 RS232; 4.6 m (plain) ▪ Type: G7-A0Z0-0015 RS232; 2.8 m (spiral) ▪ Type: G7-A0Z0-0016 USB; 2 m (plain) ▪ Type: G7-A0Z0-0018
Power supply with DC connecting cable	Type: G7-A0Z0-0019	

Note on the power supply of the base station via the PC/Host:

RS232:

The RS232 does not provide a supply voltage to operate the base station functionally.

External power supply of type G7-A0Z0-0019 is mandatory.

USB:

The supply voltage via the USB interface is not sufficient to use a base station for data transmission and as a charging station.

It is absolutely necessary to use an external power supply (type G7-A0Z0-0019).

The charging current via the USB interface is too low to enable charging of the battery.

6.4.3 Placing and charging the hand-held scanner in the base station

DANGER

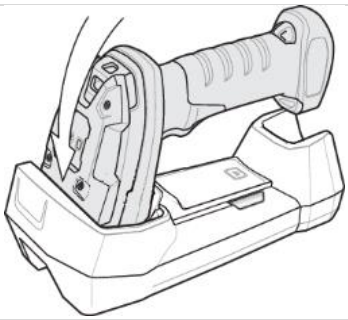
Non-approved base station!

▶ Only use the base station that has been specified for the relevant configuration by BARTEC.

Spark formation!

▶ Only use the base station outside the potentially explosive atmosphere.

1. Place the head of the hand-held scanner in the base station.



2. Press the underneath of the hand-held scanner into the base station until you hear the hand-held scanner click into place.

➥ LEDs on the base station flash yellow to indicate the start of the charging process.

➥ LEDs on the base station flash green to indicate the end of the charging process.

Charging time:

Battery Type for Zone 2/22; Div 2	**Base station Type: G7-A0Z0-0010**
B7-A2Z0-0036	Up to 3 hours
Battery Type for Zone 0/20; Div1	**Base station Type: 17-A1Z0-0014**
17-A1Z0-0012	Up to 8 hours

6.4.4 Connecting the hand-held scanner to the base station (optional)

1. The Bluetooth hand-held scanner sends data to the base station. The base station sends these data to a host PC. To exchange data / receive data, the base station must be connected to the hand-held scanner via Bluetooth.
2. To connect the hand-held scanner to the base station, place the hand-held scanner in the base station.

   –or–

   Scan the connection code (Pairing Barcode) on the base station.

   If the display is illuminated in red, the transfer has failed.

   If the status LEDs are lit up in green, the hand-held scanner is connected to the base station.

6.4.5 Inserting and charging the battery in the battery charging station

DANGER

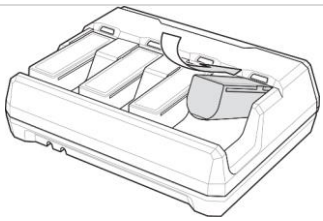
Non-approved battery charging station!

▶ Only use the battery charging station that has been specified for the relevant configuration by BARTEC.

Spark formation!

▶ Only use the battery charging station outside the potentially explosive atmosphere.

1. Point the contacts of the battery upwards.
2. Slide the battery underneath the edge of the LED indicator ledge of the 4-slot charging station.



3. Press the battery into the 4-slot charging station.

➥ You can hear the battery click into place

➥ LED on the 4-slot charging station flashes yellow, indicating the start of the charging process.

➥ Battery is charged.

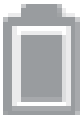
➥ LED on the 4-slot charging station flashes green, indicating the end of the charging process.

Charging time:

Battery Type for Zone 2/22; Div 2	**4 slot battery charging station Type: G7-A0Z0-0013**
B7-A2Z0-0036	Up to 5 hours
Battery Type for Zone 0/20; Div1	**4 slot battery charging station Type: 17-A1Z0-0013**
17-A1Z0-0012	Up to 8 hours

6.5 Meaning of LED display / beeps

6.5.1 Hand-held scanner

LED display	Colour	Beep sequence	Meaning
Status LEDs (on switching on)	Green flashes	Low – medium – high	Hand-held scanner is switched on
Status LEDs (when scanning)	Red	High (4 short beeps)	Transmission error Data are ignored
	Green	Medium	Barcode has been read successfully
On Bluetooth hand-held scanners: 	Red	–	Battery charge less than 20 %
	Yellow	–	Battery charge 20 - 50 %
	Green	–	Battery charge over 50 %
On Bluetooth hand-held scanners: 	Red	Low (4 long beeps)	No Bluetooth pairing
	Green	2 short beep sequences	Paired to Bluetooth device

Other LED displays and beeps are described in the ZEBRA Product Reference Guide.

6.5.2 Base station and 4-slot battery charging station

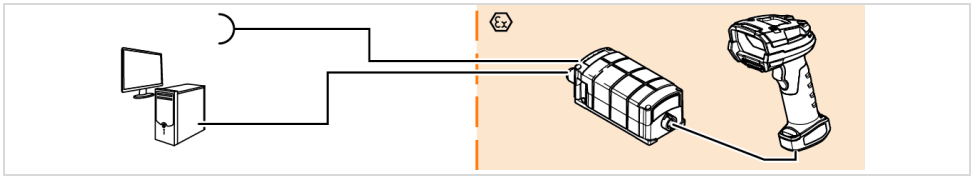
LED display	Meaning
Lights up green	Base station or battery charging station is switched on
Lights up blue	Page button is pressed
Flashes yellow	Battery is being charged
Flashes green	Battery has been fully charged
Flashes quickly, yellow	Fault during charging

Other LED displays and beeps are described in the ZEBRA Product Reference Guide.

6.6 Possible system configurations

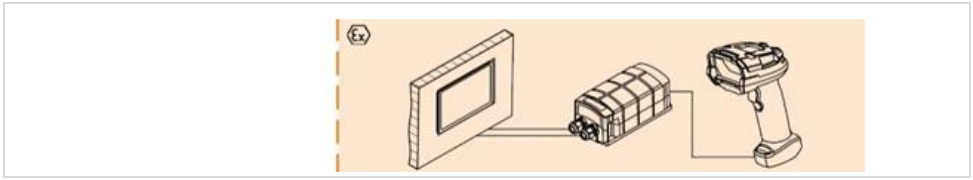
6.6.1 Corded Hand-held scanner BCS3608ex

6.6.1.1 Corded Hand-held scanner BCS3608ex-NI / BCS3608ex-IS with universal supply module

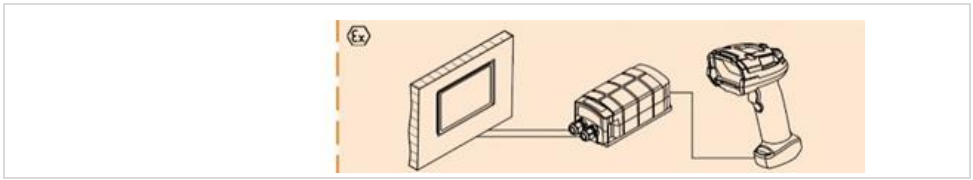


The universal supply module for US and Canada can only be used with DC24V

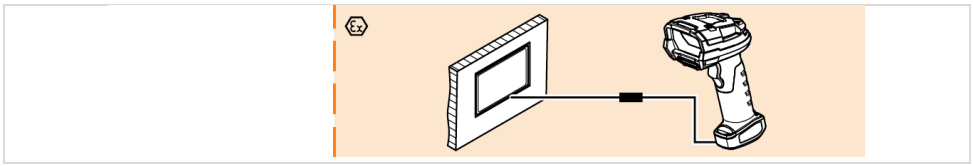
6.6.1.2 Corded Hand-held scanner BCS3608ex-NI / BCS3608ex-IS with universal supply module



6.6.1.3 Corded Hand-held scanner BCS3608ex-IS with supply module Ex i



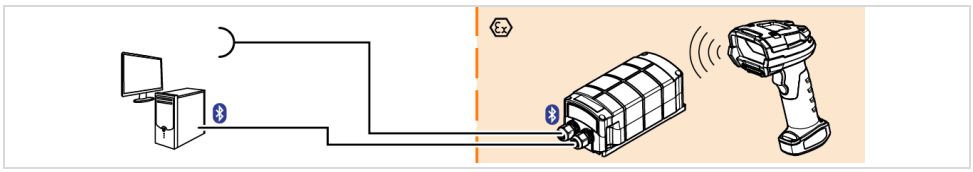
6.6.1.4 Corded Hand-held scanner BCS3608ex-NI with HMI limiting cable (only Zone 2 and 22) *



* Internal power supply at the HMI USB module must provide min. 5V/500 mA.

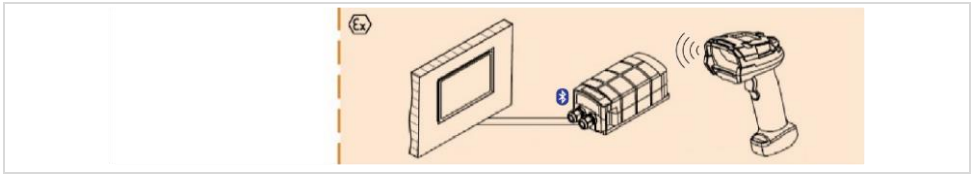
6.6.2 Bluetooth Hand-held scanner BCS3678ex

6.6.2.1 Bluetooth Hand-held scanner BCS3678ex-NI / BCS3678ex-IS via universal supply module

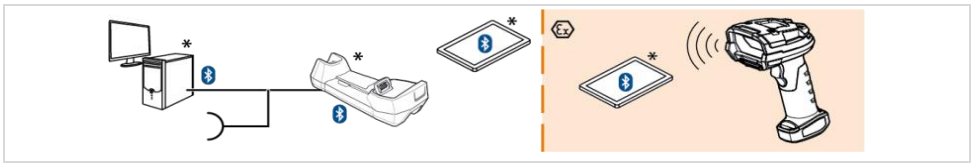


The universal supply module for US and Canada can only be used with DC24V

6.6.2.2 Bluetooth Hand-held scanner BCS3678ex-IS via supply module Ex i Bluetooth



6.6.2.3 Bluetooth Hand-held scanner BCS3678ex-NI / BCS3678ex-IS with base station and bluetooth-enabled device



* Optional communication options

6.7 Universal supply module and supply module Ex i

6.7.1 Electrical values of the supply modules

The following table lists the electrical input and output values of the available supply modules.

1. Input (Power Connection AC or DC)
2. Data line
3. Output (Scanner connection)

1. Input (Power connection AC or DC)

Supply module	AC			DC		
	U	I	P_{wirk}	U	I	P_{wirk}
Universal supply module corded for hand-held scanner BCS3608ex-IS Type:17-A1Z0-0018	AC 100-240 V 50/60 Hz	0.1 A	6 W	DC 24 V	0.2 A	5 W
Universal supply module Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0019		0.01 A	1 W		0.05 A	0.7 W
Universal supply module corded for hand-held scanner BCS3608ex-NI Type: B7-A2Z0-0042		0.1 A	6 W		0.2 A	5 W
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI Type: B7-A2Z0-0043		0.01 A	1 W		0.05 A	0.7 W
Supply module Ex i corded for hand-held scanner BCS3608ex-IS Type: 17-A1Z0-0025		0.1 A	6 W		0.2 A	5 W
Supply module Ex i Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0028		0.01 A	1 W		0.05 A	0.7 W
Universal supply module corded for hand-held scanner BCS3608ex-NI VERSION: US + CANADA Type: B7-A2Z0-004200US	**no AC voltage input**				0.2 A	5 W
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI VERSION: US + CANADA Type: B7-A2Z0-004300US					0.05 A	0.7 W

2. Data line

Supply module	Interface	Version
Universal supply module corded for hand-held scanner BCS3608ex-IS Type:17-A1Z0-0018	USB-SPP RS232 RS422 RS485	Unidirectional in Ex e
Universal supply module Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0019		
Universal supply module corded for hand-held scanner BCS3608ex-NI Type: B7-A2Z0-0042		
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI Type: B7-A2Z0-0043		
Supply module Ex i corded for hand-held scanner BCS3608ex-IS Type: 17-A1Z0-0025	USB-SPP RS232	Unidirectional in Ex i
Supply module Ex i Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0028		
Universal supply module corded for hand-held scanner BCS3608ex-NI VERSION: US + CANADA Type: B7-A2Z0-004200US	USB-SPP RS232 RS422 RS485	Unidirectional in Ex e
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI VERSION: US + CANADA Type: B7-A2Z0-004300US		

3. Output (Scanner connection)

Supply module	DC	
	U	I
Universal supply module corded for hand-held scanner BCS3608ex-IS Type:17-A1Z0-0018	8 V	0,5 A
Universal supply module Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0019	Bluetooth	
Universal supply module corded for hand-held scanner BCS3608ex-NI Type: B7-A2Z0-0042	5 V	0,5 A
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI Type: B7-A2Z0-0043	Bluetooth	
Supply module Ex i corded for hand-held scanner BCS3608ex-IS Type: 17-A1Z0-0025	8 V	0,5 A
Supply module Ex i Bluetooth for hand-held scanner BCS3678ex-IS Type: 17-A1Z0-0028	Bluetooth	
Universal supply module corded for hand-held scanner BCS3608ex-NI VERSION: US + CANADA Type: B7-A2Z0-004200US	5 V	0,5 A
Universal supply module Bluetooth for hand-held scanner BCS3678ex-NI VERSION: US + CANADA Type: B7-A2Z0-004300US	Bluetooth	

6.7.2 Terminal assignment universal supply module

Terminal assignment for the installation of power supply cables and connection cables on the host PC side.

The following interfaces are supported: USB-SPP, RS232, RS422 und RS485

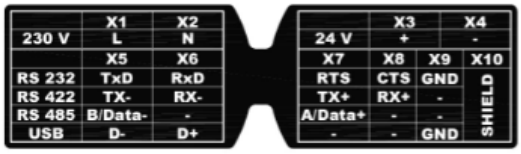
ATTENTION

The supply module can be destroyed if the terminals are incorrectly assigned!

▶ Note the correct assignment of the terminals.

Terminal block

Possible marking
(depending on selected version and interface)



Terminal	Marking	Input voltage range			
		USB-SPP	RS232	RS422	RS485
X1	L	L = 100 V_{AC} bis 240 V_{AC} ±10% / 50/60 Hz			
X2	N	N = Neutral conductor			
X3	+	24 V_{DC} ±10%			
X4	–	GND			
		Supported data interface			
		USB-SPP	**RS232**	**RS422**	**RS485**
X5		Data- (D-)	TxD	TxD-	TxD/RxD– (B/Data-)
X6		Data+ (D+)	RxD	RxD-	–
X7		–	–	TxD+	TxD/RxD+ (A/Data+)
X8		–	–	RxD+	–
X9		GND	GND	–	–
X10		Placing the shield			

The wire mesh of the data cable must be inserted into the shield clamp and the mesh must also be connected to terminal for the shield.

When using the USB-SPP interface, the ferrite core must be used.

6.7.3 Terminal assignment Supply module Ex i

Terminal assignment for the installation of power supply cables and connection cables on the host PC side.

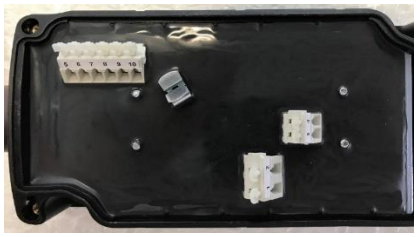
The following interfaces are supported: USB-SPP und RS232

ATTENTION

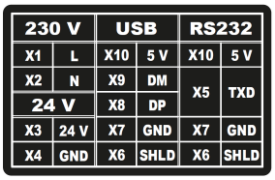
The supply module can be destroyed if the terminals are incorrectly assigned!

▶ Note the correct assignment of the terminals.

Terminal block



Possible marking
(depending on selected version and interface)



Terminal	Marking	Input voltage range	
		USB-SPP	RS232
X1	L	L = 100 V_{AC} bis 240 V_{AC} ±10% / 50/60 Hz	
X2	N	N = Neutral conductor	
X3	+	24 V_{DC} ±10%	
X4	–	GND	
		Supported data interface	
		USB-SPP	**RS232**
X5		–	TxD
X6		Placing the shield	
X7		GND	GND
X8		Data+ (D+)	-
X9		Data- (D-)	-
X10		5 V	5 V

The wire mesh of the data cable must be inserted into the shield clamp and the mesh must also be connected to terminal for the shield.

When using the USB-SPP interface, the ferrite core must be used.

6.7.4 Setting the interface with programming code

The supply modules are pre-configured in the factory (default) to USB-SPP and are hardware pre-configured for corded or Bluetooth handheld scanners.

The interfaces are set via programming barcodes.

The correct setting of the used interface must be made, because the respective interface parameters are set internally accordingly.

For trouble-free operation in the installation, however, it is necessary to make correct settings to avoid communication and functional problems.

Note:

In an office environment, data may be displayed correctly on the PC even if a different interface than the one connected is set.

USB-SPP	Activation of the USB-SPP interface. The USB-SPP (Serial Port Profile) is functionally a virtual serial COM port.
Activation of the RS232 interface.	RS232
RS422	Activation of the RS422 interface.
Activation of the RS485 interface.	RS485

6.7.5 Communication via supply modules to host or PC

Only one communication direction is supported by the supply modules:

Unidirektional (Uni):

Only data from the hand-held scanner over a supply module can be sent to a host/PC. Sending data from the host/PC to the hand-held scanner (remote control) is not supported.

6.7.6 Range/maximum cable length of the connected cables from the supply modules to host or PC

Supported interface	Universal supply module	Supply module Ex i	Range	
USB-SPP	Yes	Yes	5 m	16 ft.
RS232	Yes	Yes	15 m	50 ft.
RS422	Yes	-	1000 m	3280 ft.
RS485	Yes	-	1200 m	3937 ft.

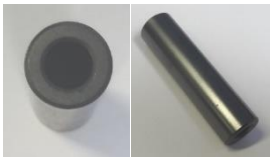
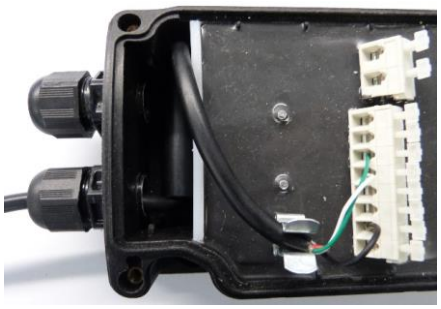
6.7.7 Ferrite core for data line (only when using the USB-SPP interface)

A plastic bag with a ferrite core is supplied with each supply module.

The ferrite core is only needed when using the USB-SPP interface.
It is used for shielding and avoiding external interferences on the data line.

The ferrite core must be mounted as follows:

- Strip the insulation of data cable
- Push the ferrite core over the data cable.
- Place the data cable with bare shield in the shield terminal (on the board).
- Connect the data line to the terminal.

Ferrite core for shielding external interference signals	Installation in a supply module
	

7 Operation

7.1 Inspection to be conducted prior to use

DANGER

Spark formation caused by the connection cable or the battery falling out!

▶ Ensure that the safety lock has been correctly closed prior to use in the potentially explosive atmosphere.

Check the following points before operating the device:

Final inspection of BCS3608ex-NI / BCS3608ex-IS (corded)

Check points
Scan window free from damage, e.g. scratches
Enclosure free from damage, e.g. crack or break
Temperature in the area in which the hand-held scanner is used corresponds to the specified temperature range
Cables are not damaged
Cables have been certified
Cable on the hand-held scanner is securely engaged and locked
Cables on the supply module are securely engaged, locked or screwed tight

Final inspection of BCS3678ex-NI / BCS3678ex-IS (Bluetooth)

Check points
Scan window free from damage, e.g. scratches
Enclosure free from damage, e.g. crack or break
Temperature in the area in which the hand-held scanner is used corresponds to the specified temperature range
If cables are present: cables are not damaged
If cables are present: cables have been certified
Battery is certified for the corresponding hand-held scanner
Battery compartment cover has been correctly locked
Cables on the supply module are securely engaged, locked or screwed tight

Final inspection of the supply modules

Check points
Supply module is not damaged
Supply module has been certified
Supply module has been certified for use with the hand-held scanner
Terminal connection chamber of the supply module has been correctly closed
Supply module has been correctly connected

7.2 Handling accessories

DANGER

Non certified accessories endanger explosion protection.
Danger to life exists in potentially explosive atmospheres!

- ▶ Only use original accessories from BARTEC.

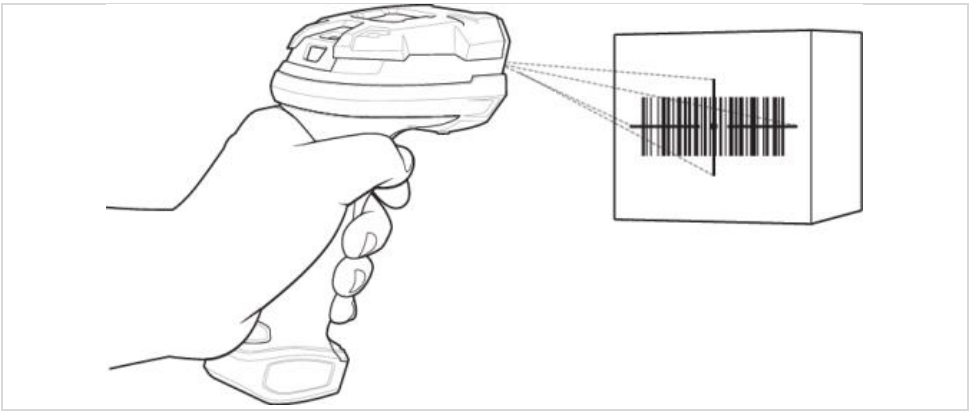
Only permitted outside the potentially explosive atmosphere:

- ▶ Insert/charge battery.
- ▶ Use base station and battery charging station.

7.3 Scanning

CAUTION / *ATTENTION*
LASER LIGHT - DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT *LUMIÈRE LASER - NE PAS REGARDER DANS LE FAISCEAU APPAREIL À LASER DE CLASSE 2* (630-680nm, 1mW)
(Invisible) Laser Radiation when open (and interlock defeated). *Rayonnement laser (invisible) lorsqu'il est ouvert (et que le verrouillage est désactivé).*
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous LED light exposure. *L'utilisation de commandes ou de réglages ou l'exécution de procédures autres que celles spécifiées dans le présent document peut entraîner une exposition dangereuse à la lumière LED.*

During scanning, the hand-held scanners in the BCS3600ex series emit a scanner beam.



1. To scan a barcode, direct the scanner beam onto the barcode so that it captures the whole width of the barcode. While doing so, pay attention to the optimal scan position.
2. Align the hand-held scanner centrally on the barcode.
3. Press the trigger button.

▶ White LEDs on the hand-held scanner are switched on to illuminate the barcode.

▶ Scanner emits a beep to signalise the successful decoding of the barcode.

Right:

The hand-held scanner can also read barcodes when the scanner beam is not directly centred on the barcode.

Wrong:

The hand-held scanner cannot decode/scan a barcode if the scanner beam does not capture the whole width of the barcode.

Due to the Ex modifications, deviations in the positioning of the scanner beam are possible with the BCS36*8ex-IS.

8 Faults – causes and remedies

Information about the configuration of host parameters and barcode types can be found in the ZEBRA Product Reference Guide.

If none of the solutions listed leads to the elimination of a fault, please contact the BARTEC Enterprise Mobility Support:

https://support.pixavi.com/support/home

8.1 Resetting the hand-held scanner

The hand-held scanner can be reset to two types of default settings:

- Scanning barcodes for factory settings (see ZEBRA Product Reference Guide, Chapter 5 - Section "User Preferences - Default Parameters" --- Appendix A lists all standard default parameters)
- Reset to factory default using Zebra 123 Scan Utility Tool.

The following reset (default) options are available:

- Factory settings (Factory Default)
- User-Defined Standard (Custom Default)

Scan the appropriate barcode below to reset the hand-held scanner to its factory settings and/or set the current hand-held scanner settings as the user-defined default.

Restore Defaults - Reset hand-held scanner to default settings

With the barcode "Restore Defaults" the hand-held scanner is reset to the following default settings:

- Restore Defaults - Resets all default parameters as follows:

  If custom defaults have been configured (see "Write to Custom Defaults"), the custom defaults will be set for all parameters each time the Restore Defaults barcode specified below is scanned.
- If no user-defined defaults have been configured, the factory defaults will be used for all parameters when the Restore Defaults barcode specified below is scanned.

  (For Factory Default, see Zebra "Product Reference Guide" for DS36X8. "Appendix A, Standard Default Parameters")

▶ Scanning the “Restore Defaults” barcode.

8.1.1 Set Factory Default - Remove Custom Defaults (Reset to Factory Defaults)

Set Factory Default - Scan the "Set Factory Default" barcode below to remove all user-defined defaults and reset the hand-held scanner to the factory defaults.

(For Factory Default, see the Zebra "Product Reference Guide" for the DS36X8. "Appendix A, Standard Default Parameters")

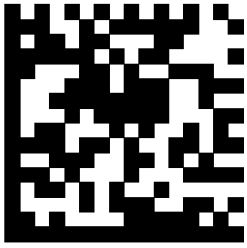
▶ Barcode “Set Factory Defaults” scanning

8.1.2 Write to Custom Defaults - Set user-defined default values

Setting custom default values is described in ZEBRA's Product Reference Guide

Write custom defaults

Custom defaults can be configured to set unique defaults for all parameters. After changing all parameters to the desired values, scan the following Write to Custom Defaults barcode to accept/save the new custom default setting.



▶ Barcode “Write to Custom Defaults” scanning.

9 Disposal

Hand-held scanner and accessories contains metallic and plastic parts and electronic components.

WEEE registration number of the BARTEC GmbH:
DE 95940350

TAs professional electrical devices, our devices are intended exclusively for commercial use, so-called B2B devices, in accordance with the WEEE Directive. The WEEE Directive provides the framework for the treatment of old electrical equipment throughout Europe. This means that you may not dispose of these devices in usual household waste but must dispose of them separately in an environmentally compatible manner and can also bring them to the collection points of public disposal companies. All products purchased from us can be returned to us by our customers for disposal. We will ensure disposal in accordance with the applicable laws. The sender shall bear the costs of postage and packaging.

10 Declaration of Conformity

10.1 EU Declaration of Confomity

EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité
№ 11-A1S0-7C0001

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
BCS3600 ex-IS	**BCS3600 ex-IS**	**BCS3600 ex-IS**
	Typ 17-A1S4-1HP0	
auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
ATEX-Richtlinie 2014/34/EU **EMV-Richtlinie 2014/30/EU** **RoHS-Richtlinie 2011/65/EU** **RoHS-Richtlinie 2015/863/EU**	**ATEX-Directive 2014/34/EU** **EMC-Directive 2014/30/EU** **RoHS-Directive 2011/65/EU** **RoHS-Directive 2015/863/EU**	**Directive ATEX 2014/34/UE** **Directive CEM 2014/30/UE** **Directive RoHS 2011/65/UE** **Directive RoHS 2015/863/UE**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN IEC 60079-0:2018
EN 60079-11:2012
EN 60079-18:2015
EN 60079-28:2015
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 + AC:2011
EN 62471:2008 (LED)
EN 60825-1:2014 (Laser)

EN 61000-3-2:2014 (Class A)
EN 61000-3-3:2013
EN 60601-1-2:2015
47 CFR Part 15, Subpart B, Class B
ICES-003 Issue 5, Class B
EN 50581:2012
EN 55024:2010
EN 61000-6-2:2005 + AC:2005
EN 55032:2012 + AC:2013 (Class B)

Verfahren der EU-Baumusterprüfung / Benannte Stelle	Procedure of EU-Type Examination / Notified Body	Procédure d'examen UE de type / Organisme Notifié
	EPS 18 ATEX 1 199 X Rev. 0 **2004, Bureau Veritas Germany GmbH, 86842 Türkheim**	

CE 0044

Bad Mergentheim, 09.10.2019

i.V. Michael Krüger
VP Quality & Control

i.V. Cristian Olareanu
Team Leader Certification Center

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité
№ 11-A1S0-7C0002

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
BCS3678ex-IS	**BCS3678ex-IS**	**BCS3678ex-IS**
	Typ 17-A1S4-2HP1	
auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
ATEX-Richtlinie 2014/34/EU **EMV-Richtlinie 2014/30/EU** **RED-Richtlinie 2014/53/EU** **RoHS-Richtlinie 2011/65/EU** **RoHS-Richtlinie 2015/863/EU**	**ATEX-Directive 2014/34/EU** **EMC-Directive 2014/30/EU** **RED-Directive 2014/53/EU** **RoHS-Directive 2011/65/EU** **RoHS-Directive 2015/863/EU**	**Directive ATEX 2014/34/UE** **Directive CEM 2014/30/UE** **Directive RED 2014/53/EU** **Directive RoHS 2011/65/EU** **Directive RoHS 2015/863/EU**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN 60079-0:2012 + A11:2013
EN IEC 60079-0 :2018-07
EN 60079-11:2012
EN 60079-18:2015
EN 60079-28:2015
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013+ AC:2011
IEC 60950-1:2005+A1:2009+ A2:2013
UL 60950-1:2015+A1:2009+ A2:2013
UL 60950-1, second edition
CAN/CSA-C22.2 No. 60950-1-07
EN 62479:2010
FCC 47CFR Part 2. 1093
RSS 102 Issue 5
IEC 62471:2006 (Ed.1.0)
EN 62471:2008 (LED)

EN 301 489-1 V2.1.1
EN 301 489-17 V3.1.1
EN 55032:2015+ AC:2016 (Class B)
EN 55024:2010
EN 61000-6-2:2005+AC:2005
EN 60601-1-2:2015
IEC 60601-1-2:2014
21CFR1040.10
47 CFR Part 15, Subpart B, Class B
ICES-003 Issue 6, Class B
EN 300 328 V2.1.1
EN 50581:2012

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité
№ 11-A1S0-7C0002

BARTEC

Verfahren der EU-Baumuster-prüfung / Benannte Stelle	Procedure of EU-Type Examination / Notified Body	Procédure d'examen UE de type / Organisme Notifié
	EPS 17 ATEX 1 177 X	
	2004, Bureau Veritas Germany GmbH, 86842 Türkheim	

CE 0044

Bad Mergentheim, 29.08.2019

i.V. Michael Krüger
VP Quality & Control

i.V. Cristian Olareanu
Team Leader Certification Center

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité
№ 11-A1Z0-7C0003

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
Universal Versorgungsmodul / HMI Versorgungsmodul (Exi)	**Universal supply module / HMI supply module (Exi)**	**Module d'alimentation universel / Module d'approvisionnement IHM (Exi)**

Typ 17-A1Z0-0018 / 17-A1Z0-0019
Typ 17-A1Z0-0025 / 17-A1Z0-0028

auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
ATEX-Richtlinie 2014/34/EU	**ATEX-Directive 2014/34/EU**	**Directive ATEX 2014/34/UE**
EMV-Richtlinie 2014/30/EU	**EMC-Directive 2014/30/EU**	**Directive CEM 2014/30/UE**
RoHS-Richtlinie 2011/65/EU	**RoHS-Directive 2011/65/EU**	**Directive RoHS 2011/65/UE**
WEEE-Richtlinie 2012/19/EU	**WEEE-Directive 2012/19/EU**	**Directive WEEE 2012/19/UE**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN IEC 60079-0:2018
EN 60079-7:2015/A1:2018
EN 60079-11:2012
EN 60079-18:2015/A1:2017
EN 60079-31:2014
EN 301 489-1:V2.1.1(2017)

EN 61000-4-2:2009
EN 61000-4-3:2006/A1:2008/ A2:2010
EN 61000-4-4:2012
EN 61000-4-5:2006
EN 61000-4-6:2009
EN 61000-4-11:2004
EN 61010-1:2010

Verfahren der EU-Baumusterprüfung / Benannte Stelle	Procedure of EU-Type Examination / Notified Body	Procédure d'examen UE de type / Organisme Notifié
	EPS 18 ATEX 1 013 X	
	2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim	

CE 0044

Bad Mergentheim, 03.06.2020

i.V. Michael Krüger
VP Quality & Control

i.V. Cristian Olareanu
Team Leader Certification Center

FB-0170d

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité

Nº B1-A2S0-7C0001_A

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt **BCS3608ex –NI** **BCS3678ex –NI**	declare under our sole responsibility that the product **BCS3608ex –NI** **BCS3678ex –NI**	attestons sous notre seule responsabilité que le produit **BCS3608ex –NI** **BCS3678ex –NI**

Typ **B7-A2S4-1HP0 / B7-A2S4-1ER0**
B7-A2S4-2HP1 / B7-A2S4-2ER1

auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
ATEX-Richtlinie 2014/34/EU	**ATEX-Directive 2014/34/EU**	**Directive ATEX 2014/34/UE**
EMV-Richtlinie 2014/30/EU	**EMC-Directive 2014/30/EU**	**Directive CEM 2014/30/UE**
RED-Richtlinie 2014/53/EU	**RED-Directive 2014/53/EU**	**Directive RED 2014/53/UE**
RoHS-Richtlinie 2011/65/EU **RoHS-Richtlinie 2015/863/EU**	**RoHS-Directive 2011/65/EU** **RoHS-Directive 2015/863/EU**	**Directive RoHS 2011/65/UE** **Directive RoHS 2015/863/UE**
WEEE-Richtlinie 2012/19/EU	**WEEE-Directive 2012/19/EU**	**Directive WEEE 2012/19/UE**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN IEC 60079-0:2018
EN 60079-28:2015
EN 60079-11:2012
EN 55032:2012+AC:2013 (Class B)
EN 55032:2015+AC:2016 (Class B)
EN 55024:2010
EN 55032:2015 (Class B)
EN 55024:2010+A1:2015
EN 61000-6-2:2005+AC:2005
EN 61000-3-2:2014 (Class A)
EN 61000-3-3:2013
EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 +AC:2011
EN 62471:2008 (LED)
EN 60825-1:2014 (Laser)
EN 50581:2012
EN 62479:2010
EN 300 328 V2.1.1
EN 301 489-1 V2.1.1
EN 301 489-17 V3.1.1
EN 60601-1-2:2015
EN IEC 63000:2018

Verfahren der internen Fertigungskontrolle	Procedure of internal control of production	Procédure de contrôle interne de fabrication
	EPS 16 ATEX 1113 X	
	2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim	

CE

Bad Mergentheim, 23.07.2020

i.V. Michael Krüger
VP Quality & Control

i.V. Cristian Olareanu
Team Leader Certification Center

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité

Nº B1-A2Z0-7C0005

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt **BCS3678ex –NI Batterie**	declare under our sole responsibility that the product **BCS3678ex –NI Battery**	attestons sous notre seule responsabilité que le produit **BCS3678ex –NI Batterie**
	Typ B7-A2Z0-0036	
auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht **ATEX-Richtlinie 2014/34/EU** **RoHS-Richtlinie 2011/65/EU** **WEEE-Richtlinie 2012/19/EU** und mit folgenden Normen oder normativen Dokumenten übereinstimmt	to which this declaration relates is in accordance with the provision of the following **directives (D)** **ATEX-Directive 2014/34/EU** **RoHS-Directive 2011/65/EU** **WEEE-Directive 2012/19/EU** and is in conformity with the following standards or other normative documents	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes **Directive ATEX 2014/34/UE** **Directive RoHS 2011/65/UE** **Directive WEEE 2012/19/UE** et est conforme aux normes ou documents normatifs ci-dessous
	EN IEC 60079-0: 2018 **EN 60079-11: 2012** **EN 62133: 2013**	
Verfahren der internen Fertigungskontrolle	**Procedure of internal control of production**	**Procédure de contrôle interne de fabrication**
	EPS 16 ATEX 1 113 X **2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim**	

CE

Bad Mergentheim, 03.06.2020

i.V. Michael Krüger
VP Quality & Control

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Team Leader Certification Center

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EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité

Nº B1-A2Z0-7C0006

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt **Universal Versorgungsmodule Kabel/ Bluetooth**	declare under our sole responsibility that the product **Universal supply module Corded/ Bluetooth**	attestons sous notre seule responsabilité que le produit **Module d'approvisionnement universel filaire/ bluetooth**
Typ: B7-A2Z0-0042 / B7-A2Z0-0043		
auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht **ATEX-Richtlinie 2014/34/EU** **EMV-Richtlinie 2014/30/EU** **RoHS-Richtlinie 2011/65/EU** **WEEE-Richtlinie 2012/19/EU** und mit folgenden Normen oder normativen Dokumenten übereinstimmt	to which this declaration relates is in accordance with the provision of the following **directives (D)** **ATEX-Directive 2014/34/EU** **EMC-Directive 2014/30/EU** **RoHS-Directive 2011/65/EU** **WEEE-Directive 2012/19/EU** and is in conformity with the following standards or other normative documents	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes **Directive ATEX 2014/34/UE** **Directive CEM 2014/30/UE** **Directive RoHS 2011/65/UE** **Directive WEEE 2012/19/UE** et est conforme aux normes ou documents normatifs ci-dessous

EN IEC 60079-0: 2018
EN 60079-7:2015+A1:2018
EN 60079-11:2012
EN 60079-31:2014
Draft EN 301 489-1:V2.2.0 (partly)
Draft EN 301 489-17:V3.2.0 (partly)

EN 61000-6-3:2007+A1:2011
EN 61000-6-2:2005
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 61010-1:2010

Verfahren der internen Fertigungskontrolle	Procedure of internal control of production	Procédure de contrôle interne de fabrication

EPS 16 ATEX 1 113 X

2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim

CE

Bad Mergentheim, 05.06.2020

i.V. Michael Krüger
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11-A1S4-7E0001/C-04/2022-EN-420589