BARTEC

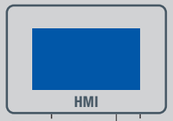
Hand-held scanner BCS 3600^{ex}-IS series

Data sheets

Zone 1/Div. 1

BCS 3608ex-IS
17-A1S4-1HP0

HMI
with Interfaces



USB-SPP
RS232

USB

Supply module Ex i
3608ex-IS
17-A1Z0-0025

Connecting cable

- **1.9 m** 17-A1Z0-0015
- **4.5 m** 17-A1Z0-0016
- **2.7 m** 17-A1Z0-0017

Universal supply module
3608ex-IS
17-A1Z0-0018

Universal supply module
3678ex-IS
17-A1Z0-0019

Supply module Ex i
3678ex-IS
17-A1Z0-0028

BCS 3678ex-IS
17-A1S4-2HP1

SMART USB Device
Bluetooth
17-71VZ-A020/0000

Battery
17-A1Z0-0012

Bluetooth-enabled device, e. g. **Agile X IS**

Non-Ex

ACCESSORIES

Leather holster
17-A1Z0-0024

Special tool for lock nut
G7-A0Z0-0031

PROGRAMMING

via Zebra
123Scan Utility
(USB supported only)

Programming cable (optional)

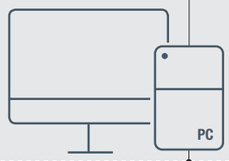
1.9 m USB		**1.9 m USB**
IS	17-A1Z0-0020	**NI** B7-A2Z0-0046

12 V

Zebra 123Scan Utility
www.zebra.com

CUSTOMER SOLUTION

available interfaces
USB-SPP (virtual COM)
RS232
RS422
RS485



available interfaces
USB-SPP (virtual COM)
RS232
RS422
RS485

COMMUNICATION + LOADING
Only with Bluetooth

12 V

Connecting cable for Zone 1/Div. 1

RS232, 1.9 m	17-A1Z0-0026
RS232, 4.5 m	17-A1Z0-0027
USB, 2 m, ext. 12 V	17-A1Z0-0020

Connecting cable for Zone 2/Div. 2

RS232, 2.0 m	G7-A0Z0-0014
RS232, 4.6 m	G7-A0Z0-0015
RS232, 2.8 m	G7-A0Z0-0016
USB, 2 m, ext. 12 V	G7-A0Z0-0018

Base station

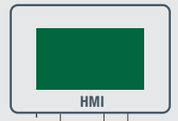
IS	17-A1Z0-0014
NI	G7-A0Z0-0010

LOADING

4-slot battery charger

IS	17-A1Z0-0013
NI	G7-A0Z0-0013

Zone 2/Div. 2



HMI
with Interfaces

USB

BCS 3608ex-NI
B7-A2S4-1HP0
B7-A2S4-1ER0

HMI limiting cable*

- **4.5 m USB** B7-A2Z0-0054
- **1.9 m USB** B7-A2Z0-0041

Connecting cable

- **1.9 m** B7-A2Z0-0037
- **4.5 m** B7-A2Z0-0038
- **2.7 m** B7-A2Z0-0039

Universal supply module
3608ex-NI
B7-A2Z0-0042

Universal supply module
3678ex-NI
B7-A2Z0-0043

SMART USB Device
Bluetooth
17-71VZ-A020/0000

BCS 3678ex-NI
B7-A2S4-2HP1
B7-A2S4-2ER1

Bluetooth-enabled device, e. g. **Agile S NI**

Battery
B7-A2Z0-0036

Power supply options: DC 24 V, AC 110/120 V, AC 230 V — - - - - Customer specific connecting cable — BARTEC specific cable

* Internal power supply at the HMI USB module must be at least 500 mA

The latest generation of rugged handheld scanners in the BCS 36x8ex series for use in hazardous areas offers outstanding performance for the unparalleled scanning of 1D/2D barcodes, photos, documents and more. The devices are based on the ZEBRA "DS3608-HP/DS3678-HP Ultra-Rugged Series of Handheld Scanners“ and are now also supplied by BARTEC in a version suitable for use in hazardous areas. The devices are available for ATEX/IECEx and NEC500. Further local approvals can be obtained on request. The series consists of a corded (BCS 3608ex) and cordless (BCS 3678ex) Bluetooth version that are deployed in the toughest environments in the world – in warehouses and production buildings. These scanners not only enable 1D or 2D barcodes to be scanned from a distance of up to approx. 2.1 m, but can also be used to capture a wide range of business information, thereby streamlining everyday business processes such as OCR, documents and photos. Irrespective of the type of data your employees need to collect, you now get all the familiar functions from the industrial application for use in potentially explosive atmospheres. The BCS 3600ex series therefore lets you maximise the reliability of the scanners. And the result? The most reliable, fastest and most accurate scanning functionality on the market, and one that sets new standards.

Industries	**Areas of use**
Warehouse management Production	Outstanding data capture for the management of articles in the entire goods flow (incoming and outgoing goods, warehouse management, etc.) Proof of delivery Image capture

Decoding options
Photos can only be forwarded to the host PC via the base station.

1D barcodes	UPC/EAN/JAN with supplementals, Bookland EAN, ISSN, UCC Coupon Extended Code, Code 128, GS1-128, ISBT 128, ISBT Concatenation, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 DataBar variants
2D barcodes	PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, Han Xin, GS1-QR, GS1-DM
Postcodes	US Postnet, US Planet, UK Postal, Japan Post, Australia Post, Royal Mail 4 State Customer, KIX Code (Dutch), UPU 4 State Postal FICS (Post US4), USPS 4 State Postal (Post US3)
OCR (6 to 60 point OCR typeface)	OCR-A/B, MICR-E13B, Series number of US currency
IUID Support	Supports IUD parsing, the ability to read and separate IUID fields according to application requirements.

• Outstanding performance

Your employees can scan information at high speed – virtually all current barcodes under any conditions. Photos range from those documenting the condition of incoming deliveries, through to providing images for electronic archiving (photos can only be transferred to the host PC via the base station). It is not even a problem if barcodes are damaged, soiled or have been printed in poor quality – this intelligent scanner can handle them all.

• Ultra-rugged design

There is hardly any place as tough as in the warehouse or the production plant. For this reason we have now also developed a version of the DS 3608 and DS 3678 from ZEBRA that can be used in potentially explosive atmospheres. These models are available in a corded and cordless design, and are the most robust scanners on the market.

• Unrivalled handling simplicity

With the tools available, these scanners are easy to use. You can remotely configure and extend your scanners, format data for an immediate transfer to your business applications and much more.

• Outstanding scan performance with 1D/2D barcodes in every environment

The advanced imager reads 1D and 2D barcodes on a monitor or label faster and with a 30 % larger working area than comparable models of this class for unsurpassed productivity. Employees are able to successfully scan virtually any barcode at the first attempt, even if it is damaged, dirty, poorly printed or under shrink-wrap.

• Ultra-rugged – the toughest design in its class

The BCS 3608ex/BCS 3678ex is our most rugged scanner yet. It has the greatest ability to withstand drops and tumbles, and has the best seal in its class. Both models are dust-proof, spray-proof and waterproof in accordance with IP 65.

• More than just barcodes: capture OCR, photos and documents

With ZEBRA's intelligent document capture, photos are taken, refocused and corrected to make them easier to read. Several OCR typefaces are supported, ensuring fast and simple data transfer (photos can only be transferred to the host PC via the base station).

• Simple handling with the original complimentary tools from ZEBRA

You can use the original ZEBRA tools for the DS3608-HP and DS3678-HP series. The tools available also include the 123Scan Utility and the Scanner Management Service (SMS), which offer a remote method of configuring scanners, performing firmware upgrades and formatting data appropriately for your backend systems.

• Capture and processing of up to 20 barcodes simultaneously

Many labels have several barcodes which need to be scanned by your staff. Now, one press of the trigger captures the right barcodes and applies the unique data format required for each one for instant transmission to your back-end systems – all with complete control over the order barcodes are processed.

• Faster pick-list processing

Users can easily select and read an individual barcode from any pick list.

• A Bluetooth model in a class of its own for superior cordless freedom

Bluetooth 4.0 (Low Energy) provides a lightning fast connection and maximum energy efficiency. The ZEBRA Wi-Fi friendly mode puts an end to the interference frequently caused by Bluetooth devices in Wi-Fi environments. The compact and rugged cradle offers excellent flexibility and durability. The BCS 3678ex is the only scanner of this product family with a cradle in the IP 65 class of protection. Its charging contacts withstand 250,000 insertions.

The first-in-its-class 'battery charge gauge' and Bluetooth status LED make it easy to monitor battery power as well as Bluetooth connectivity.

The Power Precision +/- battery is the ultimate in battery performance and management.

The corded version is ideal for stationary applications used to collect data from 1D barcodes, 2D barcodes, postcodes and OCR in a potentially explosive atmosphere. The rugged version offers all highly developed ergonomic and functional features required in industrial applications. The corded version requires a universal supply module to guarantee ex-compliant voltage supply and data communication (Transfer of photos to the host PC is only possible via the base station).

Explosion protection

Marking ATEX Zone 1/21	Ⓔx II 2G Ex ia ma op is IIC T4 Gb Ⓔx II 2D Ex ia ma op is IIIC T135°C Db IP 64
Certification	EPS 18 ATEX 1 199 X
Marking IECEx Zone 1/21	Ex ia ma op is IIC T4 Gb Ex ia ma op is IIIC T135°C Db IP 64
Certification	IECEx EPS 18.0100X
Other approvals and certificates, see www.bartec.com	

Technical data

Physical features	
Dimensions (H x W x D)	185 mm x 76 mm x 132 mm
Weight	approx. 450 g excluding cable
Colour	Industrial green
Material	Polycarbonate (PC)
User displays	Direct decoding display, LEDs, signal tone, vibration
Power supply	using universal supply module from BARTEC
Supported interfaces	Scanner to the universal supply module RS232 (TTL level) USB-SPP* * USB only works as an SPP (Serial Port Profile); HID (Human Interface Device) is not supported.
Performance features	
Illumination	2 x LED, warm white
High-performance scanner 1D/2D imager SE4750 HP	For scanning 1D barcodes, 2D barcodes, postcodes, OCR (Transfer of photos to the host PC is only possible via the base station).
User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Programming/service programs	
Programming cable (from PC to scanner via USB)	Available as an option; for the use of ZEBRA Software Tools such as 123Scan Utility to configure hand-held scanners in the safe area on a PC
Programming manual	Permits programming by scanning barcodes. Available at: http://automation.bartec.de/indexE.htm, www.zebra.com
123Scan Utility	Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available at: www.zebra.com Programming via the universal supply module is not supported. A programming cable (Typ 17-A1Z0-0020) required in non-hazardous areas.
Scanner Management Service (SMS)	Performs remote administration of your ZEBRA scanners and retrieves its inventory data. Available at: www.zebra.com
Scope of delivery	BCS 3608ex-IS, Quick start guide Also required: (not included in the delivery) - Universal supply module - Connecting cable or HMI limiting cable for data transmission

Ordering information

BCS 3608ex-IS	**17-A1S4-1HP0**

Technical data subject to change without notice.

The Bluetooth version is ideal for mobile applications used to collect data from 1D barcodes, 2D barcodes, postcodes and OCR in a potentially explosive atmosphere (Transfer of photos to the host PC is only possible via the base station). The rugged version offers all highly developed ergonomic and functional features required in industrial applications. For the Bluetooth version there are several possibilities to transfer the data via Bluetooth "Single Point-to-Point".

Explosion protection

Marking ATEX Zone 1/21	Ⓔx II 2G Ex ia ma op is IIC T4 Gb Ⓔx II 2D Ex ia ma op is IIIC T135°C Db IP 64
Certification	EPS 17 ATEX 1 177 X
Marking IECEx Zone 1/21	Ex ia ma op is IIC T4 Gb Ex ia ma op is IIIC T135°C Db IP 64
Certification	IECEx EPS 17.0090X
Other approvals and certificates, see www.bartec.com	

Technical data

Physical features	
Dimensions (H x W x D)	185 mm x 76 mm x 142 mm
Weight	450 g
Colour	Industrial green
Material	Polycarbonate (PC)
User displays	Direct decoding display, LEDs, signal tone, vibration
Battery	Lithium-ion 3.6 V/2800 mAh (10.08 Wh) Only charge with the following accessories: base station - 17-A1Z0-0014 4-slot battery charger - 17-A170-0013
Cordless connection to	Bluetooth universal supply module, base station, Bluetooth-enabled device Bluetooth Class 1, Version 4.0 (LE), serial interface , USB-HID and USB-SPP via base station and USB-SPP via Bluetooth universal supply module
Radio range (direct visual connection outdoors - laboratory values)	Via Bluetooth universal supply module, base station or Bluetooth-enabled device Class 1: up to 100.0 m Class 2: up to 10.0 m
Data rate	3 Mbit/s (2.1 Mbit/s) for classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy
Performance features	
Illumination	2 x LED, warm white
High-performance scanner 1D/2D imager SE4750 HP	For scanning 1D barcodes, 2D barcodes, postcodes, OCR (Photos cannot be transferred to the host PC via the universal supply module).

User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Loading temperature	0 °C to 45 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)
Programming/service programs	
Programming cable (from PC to scanner via USB)	Available as an option; Base station necessary; for the use of ZEBRA Software Tools such as 123Scan Utility to configure hand-held scanners in the safe area on a PC
Programming manual	Permits programming by scanning barcodes. Available at: http://automation.bartec.de/indexE.htm, www.zebra.com
123Scan Utility	Programming of scanner parameters via USB, firmware upgrades, provision of scanned bar-code data and printing of reports. Available at: www.zebra.com Programming via the universal supply module is not supported. A non-Ex base station and a corresponding USB cable is required in the non-Ex area.
Scanner Management Service (SMS)	Performs remote administration of your ZEBRA scanners and retrieves its inventory data. Available at: www.zebra.com
Scope of delivery	BCS 3678^{ex}-IS, Battery, Special tool for lock nut, Quick start guide Also required: (not included in the delivery) - Battery charger or base station for charging - Universal supply module or base station + connecting cable for data transmission

Ordering information

BCS 3678^{ex}-IS	**17-A1S4-2HP1**

Technical data subject to change without notice.

Universal supply module for hand-held scanner BCS 3608ex-IS

for ATEX/IECEx Zone 1/21

The universal supply module is designed for an intrinsically safe supply (barrier) and contains a safety barrier (evaluation barrier) for data lines in a potentially explosive atmosphere.The data cables can be connected from hazardous areas to non-hazardous systems – for example to PCs or PLC - without any additional barrier/safety barrier. The datan interface to be used can be set with a barcode (for older versions by setting a DIP switch).These adjustment possibilities make it easier for an existing old system to subsequently be converted and modified.

Explosion protection

Marking ATEX Zone 1/21	Ⓔx II 2(1)G Ex eb ma [ia Ga] IIC T4 Gb Ⓔx II 2(1)D Ex tb [ia Da] IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx Zone 1/21	Ex eb ma [ia Ga] IIC T4 Gb Ex tb [ia Da] IIIC T80 °C Db IP64
Certification	IECEx EPS 18.0009X
Other approvals and certificates, see www.bartec.com	

Technical data

Physical features	
Dimensions (H x W x D)	81 mm x 222 mm x 88 mm
Weight	1050 g
Input voltage	DC 24 V ± 10%, / 0.2 A / 5 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.1 A / 6 W
Colour	black
Material	Thermoplastic
Supported interfaces	Universal supply module to PC/Host — max. cable length USB-SPP* — 5 m RS232 — 20 m RS422 — 1000 m RS485 — 1200 m * USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.
Data transmission	Unidirectional Data can be sent from the scanner to another system via the Universal supply module. Note: Bidirectional data transmission is not supported.
Connection to hand-held scanner	One hand-held scanner can be connected to the universal supply module.
Connecting cable (Universal supply module to PC/host)	Not available in scope of delivery! Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5, similar or better
Connection cable (Universal supply module to hand-held scanner)	Not available in scope of delivery! Cables in different lengths and designs can be ordered separately.

User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Note on programming with Zebra 123Scan Utility:
Programming via the universal supply module is not supported.

Ordering information

Universal supply module, corded for BCS 3608ex-IS	**17-A1Z0-0018**

(Scpoe of delivery: 1x Universal supply module)
Technical data subject to change without notice.

Universal supply module for hand-held scanner BCS 3678ex-IS

for ATEX/IECEx Zone 1/21

The universal supply module is designed for an intrinsically safe supply (barrier) and contains a safety barrier (evaluation barrier) for data lines in a potentially explosive atmosphere. The data cables can be connected from hazardous areas to non-hazardous systems – for example to PCs or PLC - without any additional barrier/safety barrier. The data interface to be used can be set with a barcode (for older versions by setting a DIP switch).These adjustment possibilities make it easier for an existing old system to subsequently be converted and modified.

Explosion protection

Marking ATEX Zone 1/21	Ex II 2G Ex eb ma IIC T4 Gb Ex II 2D Ex tb IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx Zone 1/21	Ex eb ma IIC T4 Gb Ex tb IIIC T80°C Db IP64
Certification	IECEx EPS 18.0009X
Other approvals and certificates, see www.bartec.com	

Technical data

Physical features		
Dimensions (H x W x D)	81 mm x 208 mm x 88 mm	
Weight	1050 g	
Input voltage	DC 24 V ± 10%, / 0.05 A / 0.7 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.01 A / 1 W	
Colour	black	
Material	Thermoplastic	
Supported interfaces	Universal supply module to PC/Host USB-SPP* RS232 RS422 RS485 * USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	max. cable length 5 m 5 m 1000 m 1200 m
Data transmission	Unidirectional Data can be sent from the scanner to another system via the universal supply module. Note: Bidirectional data transmission is not supported.	
Connection to hand-held scanner	One hand-held scanner can be paired to the universal supply module (Point to Point). The digital scanner connects to the universal supply module via Bluetooth. The universal supply module is recognised as a serial connection by the PC/host.	
Bluetooth	Bluetooth 4.2 (LE), Class 1 Radio range (direct visual contact outside – laboratory values) with BCS 3678ex Class 1: at least 100.0 m	
Connecting cable (Universal supply module to PC/host)	Not available in scope of delivery! Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5, similar or better	

User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Note on programming with Zebra 123Scan Utility:
Programming via the universal supply module is not supported.

Ordering information

Universal supply module, Bluetooth for BCS 3678ex-IS	**17-A1Z0-0019**

(Scope of delivery: 1x Universal supply module)
Technical data subject to change without notice.

Supply module Ex i for hand-held scanner BCS 3608ex-IS

for ATEX/IECEx Zone 1/21

The supply module Ex i is designed for an intrinsically safe supply (barrier) of the corded hand-held scanner BCS 3608ex-IS and contains a safety barrier (evaluation barrier) for data lines in a potentially explosive atmosphere. The data cables can be connected in hazardous areas to systems – for example to HMI, PLC or micro processors, with corresponding Ex i interface- without any additional barrier/safety barrier.

Explosion protection

Marking ATEX zone 1/21	Ⓔx II 2(1)G Ex eb ib ma [ia Ga] IIC T4 Gb Ⓔx II 2(1)D Ex tb ib [ia Da] IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx zone 1/21	Ex eb ib ma [ia Ga] IIC T4 Gb Ex tb ib [ia Da] IIIC T80°C Db IP64
Certification	IECEx EPS 18.0009X
Other approvals and certificates, see www.bartec.com	

Technical data

Physical features	
Dimensions (H x W x D)	81 mm x 222 mm x 88 mm
Weight	1040 g
Input voltage	DC 24 V ± 10% / 0.2 A / 5 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.1 A / 6 W
Colour	black
Material	Thermoplastic
Supported interfaces	Universal supply module to PC/Host max. cable length USB-SPP* 5 m RS232 (TTL-Pegel) 5 m * USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.
Data transmission	Unidirectional Data can be sent from the scanner to another system via the supply module Ex i. Note: Bidirectional data transmission is not supported.
Connection to hand-held scanner	One hand-held scanner can be connected to the universal supply module.
Connecting cable (Universal supply module to PC/host)	Not available in scope of delivery! Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better
Connecting cable (Universal supply module to hand-held scanner)	Not available in scope of delivery! Cables in different lengths and designs can be ordered separately.

User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Passive Ex i interface (RS232 + USB)

Level signal	5 V
Supply voltage	5 V
Max. input voltage	U_i 6 V
Max. input current	I_i 0,5 A
Max. input power	P_i 2 W
Max. inner capacity	Ci 5.7 µF
Max. inner inductance	L_i 0 µH

Note on programming with Zebra 123Scan Utility:
Programming via the supply module Ex i is not supported.

Important note on supply module Ex i:
The serial parameters of the supply module Ex i cannot be reprogrammed.
The serial parameters of the Ex i modules are preset to **RS232 and USB-SPP Host Parameters (default)**

Baud rate	9600 Baud
Parity	None
Stop bits	1 Bit
Data bits	8 Bit
Hardware Handshaking	None
Software Handshaking	None

Ordering information

Supply module Ex i for BCS 3608ex-IS	**17-A1Z0-0025**

(Scope of delivery: 1x Supply module Ex i)
Technical data subject to change without notice.

Supply module Ex i for hand-held scanner BCS 3678ex-IS

für ATEX/IECEx Zone 1/21

The supply module Ex i is designed for an intrinsically safe supply (barrier) of the Bluetooth hand-held scanner BCS 3678ex-IS and contains a safety barrier (evaluation barrier) for data lines in a potentially explosive atmosphere. The data cables can be connected in hazardous areas to systems – for example to HMI, PLC or micro processors, with corresponding Ex i interface- without any additional barrier/safety barrier.

Explosion protection

Marking ATEX zone 1/21	Ⓔx II 2G Ex eb ib ma IIC T4 Gb Ⓔx II 2D Ex tb ib IIIC T80°C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx zone 1/21	Ex eb ib ma IIC T4 Gb Ex tb ib IIIC T80°C Db IP64
Certification	IECEx EPS 18.0009X
Other approvals and certificates, see www.bartec.com	

Technische Daten

Physical features	
Dimensions (H x W x D)	81 mm x 208 mm x 88 mm
Weight	1040 g
Input voltage	DC 24 V ± 10% / 0.05 A / 0.7 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.01 A / 1 W
Colour	black
Material	Thermoplastic
Supported interfaces:	Supply module to PC/Host max. cable length USB-SPP* 5 m RS232 (TTL-Pegel) 5 m * USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.
Data transmission	Unidirectional Data can be sent from the scanner to another system via the supply module Ex i. Note: Bidirectional data transmission is not supported.
Connection to hand-held scanner	One hand-held scanner can be paired to the universal supply module (Point to Point). The digital scanner connects to the universal supply module via Bluetooth. The universal supply module is recognised as a serial connection by the PC/host.
Bluetooth	Bluetooth 4.2 (LE), Class 1 Radio range (direct visual contact outside – laboratory values) with BCS 3678ex Class 1: at least 100.0 m
Connecting cable (Supply module Ex i to PC/host)	Not available in scope of delivery! Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better

User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108,000 lux (in direct sunlight)

Passive Ex i interface (RS232 + USB)

Level signal	5 V
Supply voltage	5 V
Max. input voltage	U_i 6 V
Max. input current	I_i 0,5 A
Max. input power	P_i 2 W
Max. inner capacity	Ci 5,7 µF
Max. inner inductance	L_i 0 µH

Note on programming with Zebra 123Scan Utility:
Programming via the supply module Ex i is not supported.

Important note on supply module Ex i:
The serial parameters of the supply module Ex i cannot be reprogrammed.
The serial parameters of the Ex i modules are preset to
RS232 and USB-SPP Host Parameters (default)

Baud rate	9600 Baud
Parity	None
Stop bits	1 Bit
Data bits	8 Bit
Hardware Handshaking	None
Software Handshaking	None

Ordering information

Supply module Ex i for BCS 3678ex-IS	**17-A1Z0-0028**

(Scope of delivery: 1x Supply module Ex i)
Technical data subject to change without notice.

Ordering information

Accessories for use in potentially explosive atmospheres

Illustration	Description	Order no.
	Battery for hand-held scanner BCS 3678ex-IS Lithium-ion battery 3.6 V/2800 mAh (10.08 Wh) May only be changed outside the potentially explosive atmosphere!	**17-A1Z0-0012**
	High quality leather holster for hand-held scanner - for attachment to a belt or wall - Colour: black	**17-A1Z0-0024**
	Connecting cable Connection between supply module and hand-held scanner BCS 3608ex-IS 1.9 m (plain) 4.5 m (plain)	 **17-A1Z0-0015** **17-A1Z0-0016**
	2.7 m (spiral)	**17-A1Z0-0017**

Ordering information

Accessories for use outside potentially explosive atmospheres

Illustration	Description	Order no.
	4-slot battery charger for hand-held scanner BCS 3678ex-IS - Input voltage: DC 12 V - Charging display via LED Additionally required: (not included in delivery) - Power supply with DC connecting cable - AC power cable	**17-A1Z0-0013**
	Base station for hand-held scanner BCS 3678ex-IS - Input voltage: DC 12 V - Data synchronisation via Bluetooth Supported interfaces: - USB - RS232 - Charging the battery inserted in the hand-held scanner - LED charge function and charging indicator - up to 7 scanners can be paired - Dimensions (H x B x T) 229.4 mm x 99.8 mm 82.6 mm - IP 65 Additionally required: (not included in delivery) - Power supply with DC connecting cable - AC power cable - Connecting cable (type 17-A1Z0-....)* * Connection cable absolutely necessary, between power supply and base station. Power supply unit cannot be connected directly to base station.	**17-A1Z0-0014**

Ordering information

Accessories for use outside potentially explosive atmospheres

Illustration	Description	Order no.
	Programming cable - identical with connecting cable USB for programming BCS 3608ex-IS via PC and for programming BCS 3678ex-IS via base station and PC - 1.9 m (plain) Additionally required: (not included in delivery) - Power supply with DC connecting cable - AC power cable - Base station (when using the BCS 3678ex-IS)	**17-A1Z0-0020**
	Power supply with DC connecting cable - Input voltage: AC 100 V to 240 V - Output voltage: DC 12 V/4,16 A/50 W	**G7-A0Z0-0019**
	AC power cable - US + Canada - EU + APAC - TAIWAN Other versions on request.	 **G7-A0Z0-0024** **G7-A0Z0-0026** **G7-A0Z0-0027**
	Connecting cable RS232 for hand-held scanners BCS 3678^{ex}-IS - Connection between base station and PC - Cable with terminal for 12 V power supply 2.0 m (plain) 4.5 m (plain) Additionally required: (not included in delivery) - Power supply with DC connecting cable - AC power cable	 **17-A1Z0-0026** **17-A1Z0-0027**
	Connecting cable USB for hand-held scanners BCS 3678^{ex}-IS - identical with programming cable - Connection between base station and PC - Cable with terminal 12 V power supply 1.9 m (plain) Additionally required: (not included in delivery) - Power supply with DC connecting cable - AC power cable	**17-A1Z0-0020**
	Special tool for lock nut for hand-held scanner BCS 3678^{ex}-IS - For opening and locking the special lock - 5 pieces	**G7-A0Z0-0031**

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