

for 1D and PDF barcodes





## **Features**

- Insensitive to direct sunlight (100 000 lux)
- High level of impact resistance
- Wide range of decoding capabilities
- All standard 1D and PDF barcodes
- 500 scans per second
- RS232/RS422 or USB interface via power pack
- Good-read feedback with signal LED, acoustic signal and vibration

### **Description**

Hand-held scanner BCS 160ex

The sturdy wired Hand-held scanner BCS 160ex offers the highly developed ergonomic and functional features required in industrial applications.

The scan line is wider than in conventional laser scanners and therefore easier to see. This makes aiming at the barcode much easier – even on hardto-access objects. Its high scanning and decoding frequency of 500 Hz enables easy scanning of a large number of barcodes in quick succession.

The BCS 160ex has a robust enclosure that can withstand use even in the toughest conditions. Even dropping it onto the ground several times from a height of 2 m will not damage this scanner.

#### Design

The BCS 160ex hand-held scanner with integrated decoder is suitable for a plug-in connection to the power pack. The power pack is installed directly in the hazardous area. It contains a module for the intrinsically safe supply (barrier) for the hand-held scanner and an isolator (evaluation barrier) for the data lines.

The data lines can be connected directly in hazardous areas to non-Ex systems, e.g. PCs, PLC or microprocessors. This applies to Zone 1, 2 and to Zone 21, 22.

### Explosion protection

#### Ex protection type

⟨Ex | II 2G Ex ib IIC T4 Gb  $-20 \, ^{\circ}\text{C} \le T_a \le +50 \, ^{\circ}\text{C}$ 

⟨Ex⟩ II 2D Ex ib IIIC T135 °C Db

#### Certification

IBExU 13 ATEX 1083

#### Technical data

#### **Ambient temperature**

-20 °C to +50 °C

#### Storage temperature

-30 °C to +70 °C

#### Code reading capabilities

all standard 1D barcodes, PDF barcodes only with a PDF scan engine

#### **Good-read feedback**

LED signal, acoustic signal and vibration

#### Scan rate

500 scans per second

#### **Light source**

visible red light 630 nm

#### **Reading distance**

up to 80 cm (for 0.5 mm code)

#### **Connection of** scanner to the supply unit

can be plugged in using connection cable RS232 maximum length 9.8 m USB maximum length 3.8 m

#### Supply unit to the host

20 m RS232 maximum length RS422 maximum length 1000 m USB maximum length 5 m

#### Weight

ca. 200 g without cable

#### Air humidity

5 % to 95 % (non-condensing)

**Dimensions** (height x width x depth) 104 mm x 76 mm x 185 mm

#### **Protection class**

IP 65

#### Operating voltage/power requirements

U = 4.9 V

supply via corresponding power pack.

#### Accessories for BCS 160ex

- power pack
- extension cable plug/socket 4.5 m or 6 m
- connection cable with 1.8 m or 3.8 m
- bracket for wall/desk-top installation



## Hand-held scanner BCS 160ex for ATEX Zone 1 and Zone 21

## BARTEC

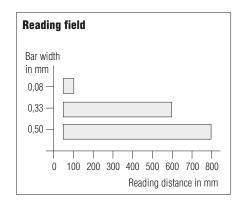
#### 1D barcodes captured:

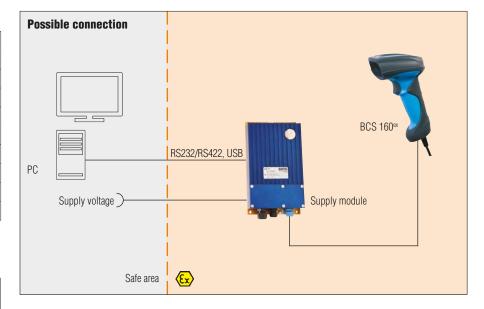
Codabar	Mainland China	
Code 11	Postal Code	
Code 32	MSI/Plessey	
Code 39	UK/Plessey	
Code 93	Standard and Industrial 2 of 5	
Code 128		
German ITF Postal Code	Telepen	
Interleaved & Matrix 2 of 5	UPC-A	
Limited/Expanded GS1 DataBar	UPC-E	
	UCC/EAN-128	

#### **PDF** barcodes captured:

(only with PDF Scan Engine)

Composite (type-dependent)
PDF417
MicroPDF417
Codablock F





Selection chart	
Barcode options	Code no.
1D Scan Engine	R
1D/PDF Scan Engine	T

# Complete order no. 17-21BA-M31S/ 000 Hand-held scanner BCS 160ex without connection cable

Note: Further accessories must be ordered separately.
Please insert correct code. Technical data subject to change without notice.