

Hand-held scanner BCS 160^{ex} 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

The sturdy wired Hand-held scanner BCS 160^{ex} 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 160^{ex} 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 160^{ex} 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

Certification

IBExU 13 ATEX 1083

🚬 Technical data

Ambient temperature -20 °C to +50 °C

-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 unitcan be plugged in using connection cableRS232maximum lengthUSBmaximum length3.8 m

Supply unit to the host

RS232 maximum length 20 m 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.

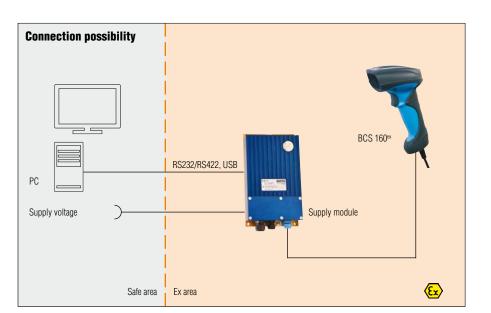
Accessories for BCS 160ex

- 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



1D barcodes captured:

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



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

Complete order no. 17-21BA-M31S/ Hand-held scanner BCS 160^{ex} without connection cable

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

Composite (type-dependent)

PDF barcodes captured: (only with PDF Scan Engine)

P	DF417
N	/licroPDF417
С	Codablock F

