



Hand-held scanner BCS 3800<sup>ex</sup>  
for 1D-Barcodes

## Features

- Insensitive to direct exposure
- High level of impact resistance - robust
- All common barcodes readable
- 270 scans per second
- RS232/RS422 interface via power pack
- Pluggable

## Description

As innovative as it is rugged, the BCS 3800<sup>ex</sup> hand-held scanner from BARTEC delivers the sophisticated ergonomic and operational features industrial applications demand.

The scan line is wider than in conventional laser scanners and accordingly more visible. This makes aiming at the barcode much easier – even on hard-to-access objects.

With its high scanning and decoding frequency of 270 Hz, it can easily read a large number of barcodes in quick succession.

The BCS 3800<sup>ex</sup> has a robust enclosure that can withstand use in even 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 3800<sup>ex</sup> hand-held scanner with integrated decoder is designed for the pluggable connection to a power pack. The power pack is for direct installation in hazardous area. The power pack contains an explosion proof module incorporating the intrinsically safe power supply (barriere) and one signal barriere for the data lines.

The data connections are available in the hazardous area - Zone 1 and 21 for connections to non-hazardous host systems (PC, PLC or micro-processor).

## Explosion protection

### Ex protection type

II 2G Ex ib IIC T4  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C

II 2D ibD 21 T135 °C  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C

### Certification

IBExU 09 ATEX 1060

## Technical data

### Ambient temperature

-20 °C up to +50 °C

### Storage temperature

-40 °C up to +60 °C

### Decode capabilities

all common 1D-barcodes

### Scan rate

270 scans per second

### Connection power pack

pluggable via 2.1 m connection cable

### Light source

Visible red light 630 nm

### Reading distance

up to 2.1 m

### Weight

approx. 213 g without cable

### Humidity

5 % up to 95 % (non-condensing)

### Dimensions (height x length x width)

163 mm x 81 mm x 135 mm

### Protection class

IP 54

### LED safety

LED classification according to  
DIN EN 60825-1

### Operating voltage/power requirements

U = 5 V/210 mA (Standby 60 mA)

Supplied through the appertaining power pack

### Accessories for BCS 3800<sup>ex</sup>

- Extension cable, plug/socket 6 m
- Connection cable
- Bracket for wall or desk mounting

Order no.  
Hand-held scanner  
BCS 3800<sup>ex</sup>  
17-21BA-0024

with 2.1 m spiral cable