Hand-held scanner BCS 302ex

Hand-held scanner BCS 302ex

Features

- immune to direct exposure from normal office and factory level lighting
- high level of impact resistance - robust
- all common barcodes readable
- 35 scans per second
- TTY/RS232 interface via power pack
- pluggable

Power pack

Description

The power pack provides the intrinsically safe power supply and isolation of the data transmission line to the BCS 302ex hand held scanner.
For ex application we have two options available for the power pack:
- TTY interface
- RS232 interface
Both options are supplied with AC 230 V.

Hand-held scanner BCS 302ex

Description

As innovative as it is rugged, the BCS 302ex hand-held scanner from BARTEC delivers the sophisticated ergonomic and operational features industrial applications demand.

First the barcodes are evaluated by the integrated 'fuzzy logic' technology and in case of poor quality is compensated. The hand held scanner is characterised by an excellent first-time reading rate of all 1D barcode types (low contrast and high-density symbols). Coloured labels and poor quality barcodes can also be read.

The BCS 302ex has a robust housing, an internal shock absorber and an ultrasonic welded window. This means that the BCS 302ex is suitable for the hardest industrial conditions. With these measures the scanner can withstand a drop to concrete of 1.8 m.

Design

The BCS 302ex 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 for connections to non-hazardous host systems (PC, PLC or micro-processor). External interface units are not required in the safe area.

Hand-held scanner BCS 302ex

➡ Explosion protection

Ex protection type
Ⓔ II 2G EEx ib IIC T4

Certification
IBExU03ATEX1094

Ambient temperature
-20 °C to +50 °C

Storage temperature
-20 °C to +70 °C

➡ Technical data

Decode capabilities
all common barcodes

Scan rate
35 scans per second

Connection power pack
pluggable

Light source
650 nm laser diode

Scan element type
Retro-collective

Weight
approx. 300 g without cable

Humidity
5 % to 95 % (non-condensing)

Dimensions (height x length x width)
173 x 150 x 74 mm

Protection class
IP 54

➡ Order no.
Hand-held scanner BCS 302ex
17-21BA-0020

Power pack

➡ Explosion protection

Ex protection type
Ⓔ II 2G EEx ed m [ib] IIC T4

Certification
PTB 02 ATEX 1159

Ambient temperature
-20 °C to +50 °C

Storage temperature
-20 °C to +70 °C

➡ Technical data

TTY interface
up to 1000 m (TxD only)

RS232 interface
up to 15 m (TxD only)

Enclosure material
polyester

Connected load
AC 100 V to AC 250 V

Power requirement
100 mA max.

Dimensions (height x length x width)
250 mm x 255 mm x 120 mm

Protection class
IP 65

➡ Order no.
Power pack
with AC 230 V for TTY interface
17-21BB-0217 (07-3103-2512/241M)

Power pack
with AC 230 V for RS232 interface
17-21BB-0218 (07-3103-2512/242M)