



Supply Module for Hand-held Scanner for ATEX Zone 1 and 21



Supply Module for Hand-held Scanner for RS232/RS422 and USB interfaces

Features

- No external isolators required
- Direct mounting in ATEX Zone 1 and 21

Description

The supply module ensures an intrinsically safe supply and it isolates the data line for the BCS 160^{ex}.

Two variants of the supply module are available for the hazardous (potentially explosive) area:

- AC 100 V to AC 250 V
- DC 24 V

All variants are equipped with an RS232/RS422 interface or USB interface.

In the hazardous areas of Zone 1 and 21, the supply module is joined to the hand-held scanner by means of a plug-in connection.

Explosion protection

Ex protection type ATEX Zone 1 und 21

Ex II 2G Ex e q [ib] IIC T4 Gb
Ex II 2D tb IIIC T135 °C Db

Certification

IBExU 09 ATEX 1091

Technical data

Ambient temperature

-25 °C to +60 °C

Storage temperature

-40 °C to +60 °C

Maximum range

Supply module to the host

RS232 interface

up to 20 m

RS422 interface

up to 1000 m

USB interface

up to 5 m

Nominal voltage/power consumption

AC 100 V to AC 250 V/approx. 3.3 W

DC 24 V/approx. 4.0 W

Input voltage range

AC 90 V to AC 253 V, 50 to 60 Hz

DC 18 V to 30 V

Maximum fault voltage

$U_m = 253 \text{ V}$

Maximum output voltage

$U_o = 4.9 \text{ V}$

Maximum output current

$I_o = 440 \text{ mA}$

Maximum output power

$P_o = 1.20 \text{ W}$

Maximum external capacitance

$C_o = 113 \mu\text{F}$

Maximum external inductance

$L_o = 0.1 \text{ mH}$

Dimensions (height x width x depth)

250 mm x 140 mm x 56 mm

Weight

approx. 3.1 kg

Enclosure material

Aluminium

Protection class (EN 60529)

IP 65

Selection chart Supply module for the BCS 160^{ex} hand-held scanner

Version	Code no.
DC 24 V, RS232/RS422 interface	3
DC 24 V, USB interface	4
AC 100 V to 250 V, RS232/RS422 interface	5
AC 100 V to 250 V, USB interface	6

Complete order no. 17-21BB-170 /0000

Please insert correct code. Technical data subject to change without notice.