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CE

BN 2268133

3 V Sensor Shield for micro:bit
GB Operating instructions

Latest operating instructions

Download the latest operating instructions at www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.

Delivery contents

• 3 V Sensor Shield for micro:bit

Description

The micro:bit is a powerful, low-cost, fully programmable single board computer developed by the BBC. It was designed to encourage children to actively engage in technical activities such as programming and electronics.

It features a 5x5 LED matrix, two integrated buttons, a compass, an accelerometer and Bluetooth®.

It supports the graphical programming interface PXT (MakeCode). This can be used on Microsoft Windows®, MacOS, iOS, Android™ and many other operating systems without downloading an additional compiler.

The additional board has been specially developed for the micro:bit single board computer. The board guides the pins of the micro:bit onto gold-plated contacts with a 3 mm hole and pin strips. This allow you to easily connect alligator clips or jumpers and expand your micro:bit with sensors, actuators or your own circuits.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Product features

• 1x slot for micro:bit single board computer
• 14 contacts with hole: 2x GND, 2x 3 V, micro:bit Pin P0, P1, P2, P12, P13, P14, P15, P16, P19, P20)
• 4x 2.8 mm holes for mounting
• 19x3 pin contacts for sensors

Requirements

The following components are required to use the board:

• 1 micro:bit, e.g. Conrad item no.: 2253828

Hardware

The pin strips are marked as follows:

    G   GND (ground)

    V   +3 V/DC

    S   Signal (micro:bit pin)

The pin assignment of the inputs/outputs corresponds to the markings on the circuit board.

Operation

Insert the micro:bit into the slot provided on the circuit board. The 5x5 LED matrix must be aligned in such a way that you can read the markings on the circuit board.

When using this circuit board, the micro:bit can be supplied with power via USB or the battery holder.

Alternatively, the GND and 3V contacts on this extension board can be used to supply the micro:bit with a voltage of 3 - 3.3 V/DC.

You can also power the micro:bit via the pin strips. You can use the pins (G = GND) and (V = +3 V/DC) for this purpose.

Disposal

Electronic devices are recyclable waste and must not be placed in household waste. At the end of its service life, dispose of the product in accordance with the applicable regulatory guidelines.

You thus fulfil your statutory obligations and contribute to protection of the environment.

Technical data

Power supply	3 - 3.3 V/DC
Pin spacing of pin strip (width)	2.54 mm
Mounting holes Ø	2.8 mm
Dimensions (W x H x D)	63 x 12 x 76 mm
Weight	23 g