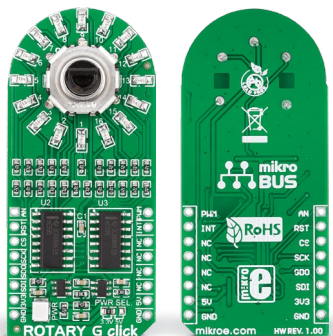# ROTARY G click™

1. Introduction

Rotary G click™ carries a **15-pulse incremental rotary encoder** with detents, surrounded by a **ring of 16 green LEDs**. It communicates with the target board through mikroBUS™ **SPI lines** (CS, SCK, MISO, MOSI), and three additional lines for outputting the Encoder info: ENCB OUT, ENCA OUT and SW (in place of the standard AN, RST and INT pins, respectively). Rotary G click™ can be used with either a 3.3V or 5V power supply.
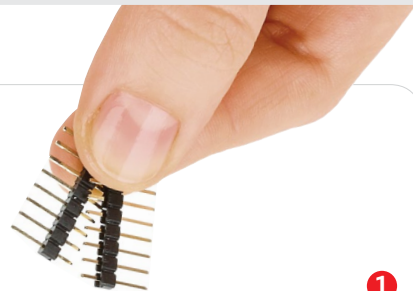
2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.
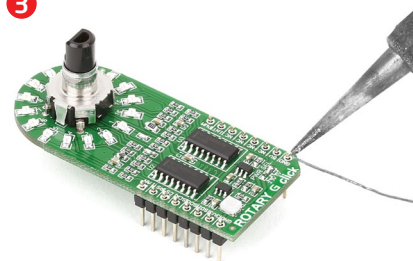
①

②
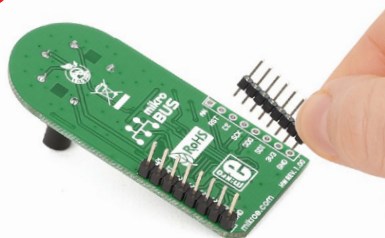
Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

③
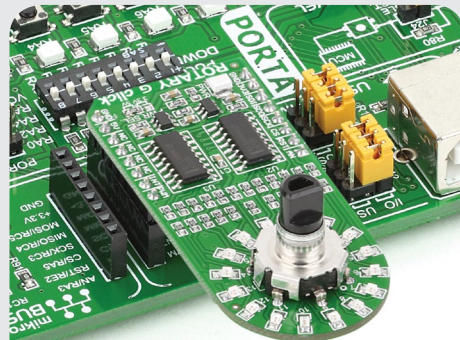
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.
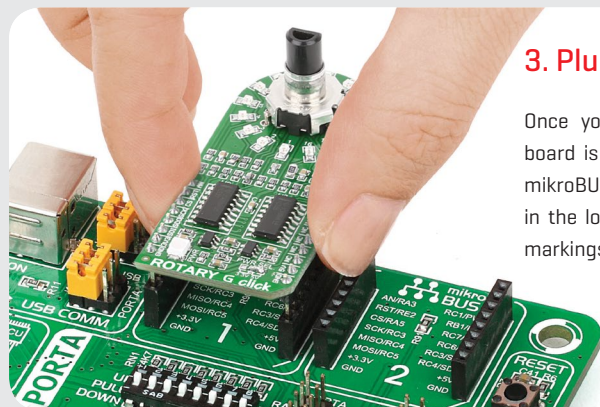
4. Essential features

Rotary G click™ with its LED ring is a perfect solution for implementing an input knob into your design (in contrast to a potentiometer, a rotary encoder can be spun round continuously). A single rotation is divided into **15 discrete steps**. The encoder outputs A and B signals (out of phase to each other). The knob is also a push-button outputted through the interrupt line. The LED ring are controlled through the SPI interface.

click™
BOARD

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ROTARY G click™ manual
ver 1.00

0100000078105

5. Schematic
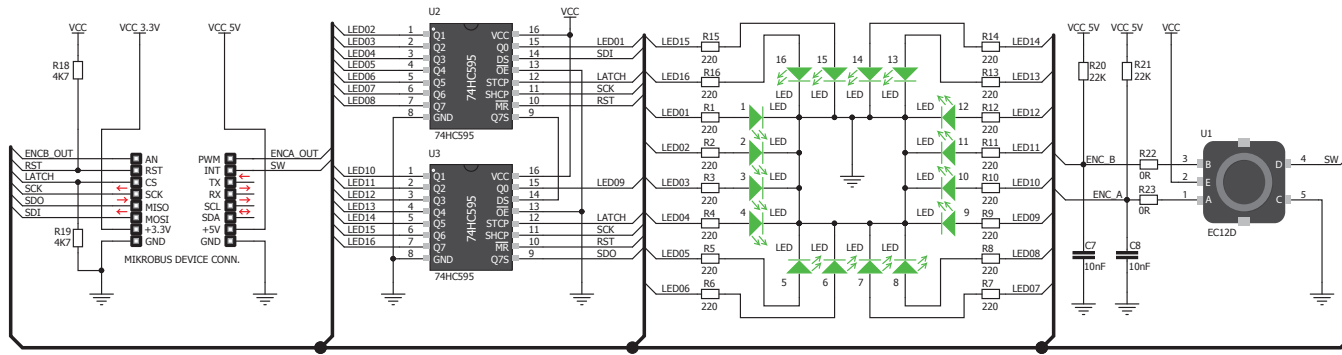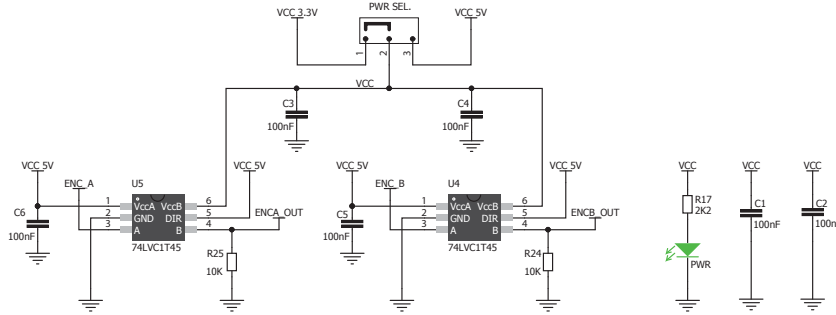
6. Dimensions
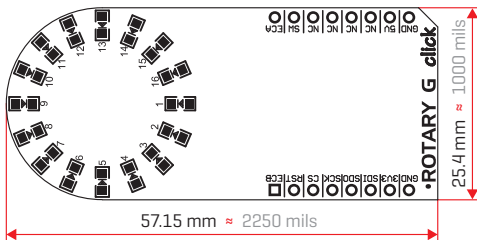
	mm	mils
LENGTH	57	2244
WIDTH	26	1024
HEIGHT	20	787

57.15 mm ≈ 2250 mils

25.4 mm ≈ 1000 mils

•ROTARY G click•

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

7. SMD jumper

There is one zero-ohm SMD jumper J1 used to select whether 3.3V or 5V I/O voltage level is used. Jumper J1 is soldered in 3.3V position by default.

8. Code examples

Once you have done all the necessary preparations, it's time to get your click™ board up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our **Libstock** website. Just download them and you are ready to start.

LIBSTOCK.com

9. Support

MikroElektronika offers **free tech support (www.mikroe.com/support)** until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

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