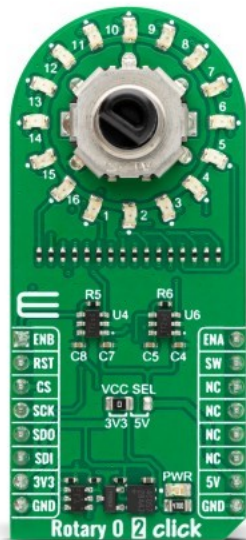


Rotary O 2 Click



PID: MIKROE-5973

Rotary O 2 Click is a compact add-on board that allows you to add a precision input knob to your design. This board features the TLC5925, a low-power 16-channel constant-current LED sink driver from Texas Instruments that, combined with a high-quality rotary encoder from ALPS, the EC12D1564402, allows you to add a precision input knob to your design. It also features an LED ring composed of 16 individual orange LEDs that can visually represent the encoder position and more. This Click board™ makes the perfect solution for the development of various interesting visual effects for any application, such as flexible position, value indicator, and more.

Rotary O 2 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Rotary encoder
Applications	Can be used for the development of various interesting visual effects for any application, such as flexible position, value indicator, and more
On-board modules	Can be used for the development of various interesting visual effects for any application, such as flexible position, value indicator, and more
Key Features	High quality, SPI interface, a ring of 16 orange LEDs controlled individually, various lighting effects, knob feature, low power consumption, flexibility, efficiency, precision, and more
Interface	GPIO, SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Rotary O 2 click example on Libstock](#)

[TLC5925 datasheet](#)

[SN74LVC1T45 datasheet](#)

[EC12D1564402 datasheet](#)

[Rotary O 2 click 2D and 3D files](#)

[Rotary O 2 click schematic](#)

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