

## Index Counter Click



PID: MIKROE-4005

**Index Counter Click** is a simple prototyping high precision Hall-Effect switch solution with direction detection. This board is hosting [TLE4966K](#) an integrated circuit dual Hall-effect sensor from [Infineon](#). The sensor is designed specifically for highly accurate applications which use a rotating pole wheel since offers high sensitivity and high stability of the magnetic switching points. Since this sensor is based on two hall probes that provide information about direction and speed of the moving wheel, this makes this product excellent choice for applications such as index counting, rotational speed and direction applications, motor driven position systems.

Index Counter Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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	Magnetic,Optical
Applications	Index Counter Click is excellent choice for applications such as index counting, rotational speed and direction applications, motor driven position systems.
On-board modules	TLE4966K, an integrated circuit double Hall-effect sensor
Key Features	High sensitivity and high stability of the magnetic switching points, reverse battery protection (-18 V), superior temperature stability
Interface	GPIO
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[Index Counter click schematic](#)

[Index Counter click example on Libstock](#)

[TLE4966K-DS datasheet](#)

[Index Counter click 2D and 3D files](#)

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