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Speed Sense Click

PID: MIKROE-5977

Speed Sense Click is a compact add-on board that allows you to measure the speed and rotation of a spinning object. This board features the A17501, a dual output differential speed and direction sensor from Allegro Microsystems. It has a high-speed switching bandwidth of up to 40kHz for two different signals. The sensor has two independent output channels with options for high-resolution XOR speed, pulse, and direction protocol. This Click board™ makes the perfect solution for the development of rotational position-sensing devices based on a ring magnet target design, which is common in automotive and industrial electric motor applications.

Speed Sens Click (EU) 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.

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Specifications

Type	Motion
Applications	Can be used for the development of rotational position-sensing devices based on a ring magnet target design which is common in automotive and industrial electric motor applications
On-board modules	A17501 - dual output differential speed and direction sensor from Allegro Microsystems
Key Features	A high-speed switching bandwidth, two independent output channels, immune to common external magnetic disturbance, ideally suited for asynchronous electric motor applications, integrated EEPROM enables factory traceability throughout the product life cycle and more
Interface	GPIO
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

ClickID

Downloads

Speed Sense click example on Libstock

Speed Sense click 2D and 3D files

Speed Sense click schematic

A17501 datasheet