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# Magneto 9 Click



PID: MIKROE-4778

**Magneto 9 Click** is a compact add-on board that contains a low-power, accurate, and reliable magnetic sensing device. This board features the A1359, dual tracking output linear hall-effect sensor from Allegro MicroSystems. This ratiometric Hall-effect sensor provides an analog voltage and a PWM signal with a duty cycle proportional to the applied magnetic field. It comes with factory-programmed offset, sensitivity, and polarity, where the PWM output tracks the analog output to within a +/-3% mismatch. This Click board™ is the most suitable for use in automotive and industrial applications such as displacement and angular position, which requires high accuracy in conjunction with redundant outputs.

Magneto 9 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.

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# Specifications

| | |
|---|---|
| Type | Magnetic |
| Applications | Can be used in automotive and industrial applications such as displacement and angular position, which requires high accuracy in conjunction with redundant outputs |
| On-board modules | A1359 - dual tracking output linear hall-effect sensor from Allegro MicroSystems |
| Key Features | Low power consumption, factory-programmed offset, sensitivity, and polarity, dual-output (analog and PWM), accuracy, forward polarity, possibility of signal processing in analog and digital form, and more |
| Interface | Analog,I2C,PWM |
| Compatibility | mikroBUS |
| Click board size | S (28.6 x 25.4 mm) |
| Input Voltage | 5V |

## Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

## Downloads

Magneto 9 click example on Libstock

Magneto 9 click 2D and 3D files

MCP3221 datasheet

A1359 datasheet

Magneto 9 click schematic