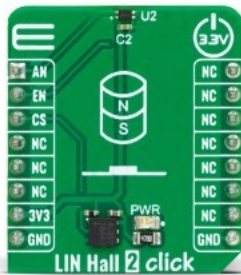


## LIN Hall 2 Click



PID: MIKROE-5932

**LIN Hall 2 Click** is a compact add-on board representing a linear Hall-effect sensing solution. This board features the [TMAG5253](#), a low-power linear Hall-effect sensor from [Texas Instruments](#). The sensor responds proportionally to the magnetic flux density with a magnetic sensitivity range of  $\pm 80\text{mT}$  and outputs proportional analog voltage. The sensor comes with a sensitivity compensation to support the temperature drift of a Neodymium magnet. This Click board™ makes the perfect solution for the development of highly accurate rotary and linear position detection in automotive and industrial applications.

LIN Hall 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	Magnetic
Applications	Can be used for the development of highly accurate rotary and linear position detection in automotive and industrial applications
On-board modules	TMAG5253 - low-power linear Hall-effect sensor from Texas Instruments
Key Features	Low power consumption, low-noise output, ratiometric analog output proportional to VCC, fast power-on time, wide magnetic sensitivity range, sensitivity compensation to support temperature drift for Neodymium magnet, and more
Interface	Analog
ClickID	Yes
Compatibility	mikroBUS™
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

## Downloads

[LIN Hall 2 click example on Libstock](#)

[LIN Hall 2 click 2D and 3D files](#)

[TMAG5253 datasheet](#)

[LIN Hall 2 click schematic](#)

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