MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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 ±80mT 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.

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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