

TMR mix-sens click



PID: MIKROE-4106

The **TMR mix-sens Click** is an add-on board equipped with the TMR digital push-pull and analog magnetic sensors, as well as intensity of magnetic field indicator. The TMR mix-sens Click has three types of magnetic field sensors: Two digital and one analog sensor. The digital sensors are the RR121-1A23-311 which has an omnipolar polarity response, and the RR121-3C63-311 which has a bipolar polarity response. The analog sensor is the RR111-1DC2-331, which outputs a voltage that is proportional to magnetic field. The board also has an LM3914 voltage level indicator, which takes the output voltage of the RR111-1DC2-331 sensor and uses it to light a series of LEDs to indicate the level of magnetic field seen by the sensor. All sensor outputs can be accessed through mikroBUS I/O or analog pins, also they are visually represented over on-board LED's. This board can be used for evaluation of the TMR sensors as well as for testing applications which are requiring low power wake up functionality.

TMR mix-sens 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 |
| Applications | Applications like proximity sensing, rotary sensing, level and linearly proportional detection in medical, industrial, automotive and consumer applications |
| On-board modules | RR111-1DC2-331, RR121-1A23-311, RR121-3C63-311 and LM3914 |
| Key Features | Magnetic field multi sensors and indicators low power consumption |
| Interface | GPIO, Analog |
| Compatibility | mikroBUS |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V, 5V |

Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[TMR mix-sens click example on Libstock](#)

[LM3914 datasheet](#)

[RR111TMR datasheet](#)

[RR121TMR datasheet](#)

[TMR mix-sens click schematic](#)

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).