

Angle 9 click



PID: MIKROE-5576

Angle 9 Click is a compact add-on board that detects the absolute position of a permanent magnet. This board features the AAS33001, a precision angle sensor with incremental and motor commutation outputs and on-chip linearization from Allegro Microsystems. It is a contactless angle sensor for 0° to 360° angular position, rotation speed, and directional measurement. Support for incremental output interface (ABI) and motor commutation (UVW) is also available. The same goes for the on-chip EEPROM for storing factory and customer calibration parameters. This Click board™ makes the perfect solution for the development of contactless potentiometers, contactless knobs, RC servos, and other angular position measurement solutions.

Angle 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.

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 contactless potentiometers, contactless knobs, RC servos, and other angular position measurement solutions
On-board modules	AAS33001 - a precision angle sensor with incremental and motor commutation outputs and on-chip linearization from Allegro Microsystems
Key Features	Contactless angle measurement, highest reliability, and durability, high-resolution output signal, allows adding rotary magnetic holder for fast prototyping, and fast measurement during the development process, incremental output interface, motor commutation interface, external power supply, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Angle 9 click example on Libstock](#)

[AAS33001 datasheet](#)

[Angle 9 click 2D and 3D files](#)

[Angle 9 click schematic](#)

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