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## **Angle 6 Click**



PID: MIKROE-5282

Angle 6 Click is a compact add-on board that detects the absolute angular position of a permanent magnet, typically a diametrically magnetized cylinder on a rotating shaft. This board features the MAO470GOE, a 12-bit contactless angle sensor with PWM output from Monolithic Power Systems. It supports a wide range of magnetic field strengths and spatial configurations, with both end-of-shaft and off-axis (side-shaft mounting), supported configurations. Fast data acquisition and processing provides accurate angle measurement at speeds from 0 to 60,000 rpm, alongside magnetic field strength detection with programmable thresholds. This Click board™ offers a highly reliable and contactless method to measure various applications' angles, position, and speed.

Angle 6 Click supports the  $\underline{\mathsf{mikroSDK}}$  compliant library, which includes functions that simplify software development. This  $\underline{\mathsf{Click}}\ \mathsf{board}^{\mathsf{TM}}$  comes as a thoroughly tested product, ready to be used on a system equipped with the  $\underline{\mathsf{mikroBUS}^{\mathsf{TM}}}$  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.







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## **Specifications**

Туре	Magnetic
Applications	Can be used as a highly reliable and contactless method to measure various applications' angles, position, and speed
On-board modules	MAQ470GQE - 12-bit contactless angle sensor with PWM output from Monolithic Power Systems
Key Features	Fast data acquisition, SPI serial interface, magnetic field strength detection, contactless sensing for long life, supported both end-of-shaft and off-axis, and many more
Interface	PWM,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Supply Voltage	3.3V

www.mikroe.com

## **Resources**

<u>mikroBUS™</u>

**mikroSDK** 

Click boards™

## **Downloads**

Angle 6 click 2D and 3D files

Angle 6 click schematic

**MAQ470GQE** datasheet

Angle 6 click example on Libstock

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health and safety management system.