



IQS624EV04 Overview

Hall effect angle sensor with dual channel capacitive proximity/touch controller

The IQS624 ProxFusion® IC is a multifunctional capacitive, inductance and Hall Effect sensor designed for applications where any or all of the technologies may be required. The two Hall-effect sensors calculate the angle of a magnet rotating parallel with the IC. The IQS624 is an ultra-low power hall-effect rotation sensor. The sensor is fully I²C compatible and on-chip calculations enable the IC to stream the current angle of the magnet without extra calculations.

EV-Kit Overview

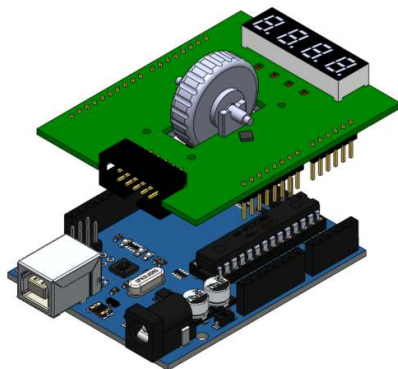
- Hall-effect sensing
 - Wheel and magnet included
- Capacitive sensing
 - Touch and Proximity embedded

Evaluation Modes

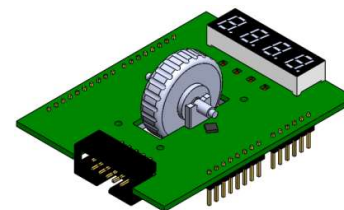
- Connect to PC GUI via CT210A USB Dongle (included in the EV04 Kit)
- When connected to CT210A use 3.3V (default) only²
 - Raw info displayed in GUI
- Please ensure Shield Board³ is unplugged from Arduino Uno /ST Nucleo when connected to CT210A
- Plug into Arduino Uno¹ or ST Nucleo¹
 - Sensor info displayed on 7-segment
 - Open source code for custom development (website)



IQS624 Shield Board



IQS624 Shield + Arduino Uno¹



IQS624 Shield

Applications

- Mouse wheel
- Anemometer
- Dial or Selector knob
- Gaming steering wheel
- Measuring wheel
- Digital angle gauge
- Speedometer for bicycle

¹ Sold separately

² 1.8V not supported on Shield Board due to diode protection

³ Shield Board does not support programming