IQS621EV02 Overview

Combination sensor with ambient light sensing (ALS), capacitive proximity/touch, Hall-effect sensor & inductive sensing capabilities
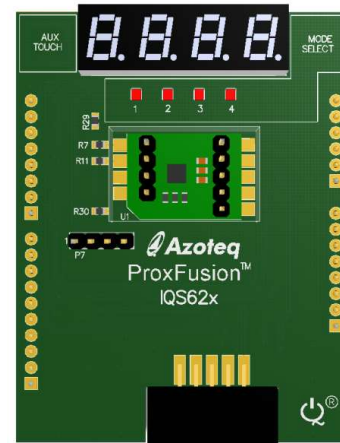
The IQS621 ProxFusion® IC is a multifunctional, ambient light sensing (ALS), capacitance, Hall-effect & inductance sensor designed for applications where any or all of the technologies may be required. The IQS621 is an ultra-low power solution designed for short or long term activations through any of the sensing channels. The IQS621 is fully I²C compatible.
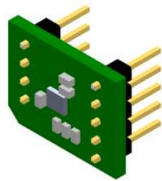
EV-Kit Overview

- Inductive sensing
- Hall-effect sensing
- Capacitive sensing
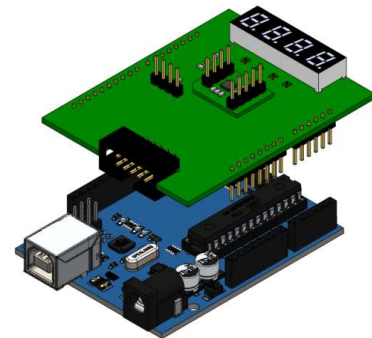- Ambient light sensing (ALS)

Evaluation Modes

- Connect to PC GUI via CT210A USB Dongle[1]
- When connected to CT210A use 3.3V (default) only[2]
  - Raw info displayed in GUI
- Please ensure Shield Board[3] is unplugged from Arduino Uno / ST Nucleo when connected to CT210A
- Plug into Arduino Uno[1] or ST Nucleo[1]
  - Arduino operation described in IQS621EV03 user guide.
  - Sensor info displayed on 7-segment
  - Open source code for custom development
- Embed the small module PCB (stamp) into custom design & interface to host MCU (Additional modules sold separately as IQS621EV01)

IQS621EV02 Shield Board

Detachable Stamp Module

IQS621 Shield + Arduino Uno[1]

Applications

- Mobile electronics (phones/tablets)
- Home automation & lighting control
- White goods and appliances
- Wearable devices
- Human Interface Devices
- Aftermarket automotive[4]

[1] Sold separately
[2] 1.8V not supported on Shield Board due to diode protection
[3] Shield Board does not support programming
[4] The part is not automotive qualified