

Engineering Evaluation Kit for Angle Sensing using the GMW360ASM Angle Sensing Module

DESCRIPTION

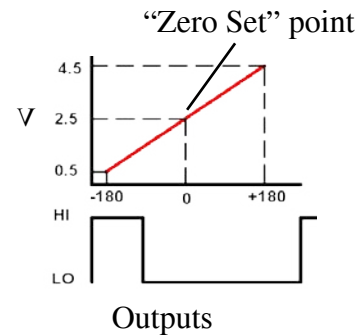
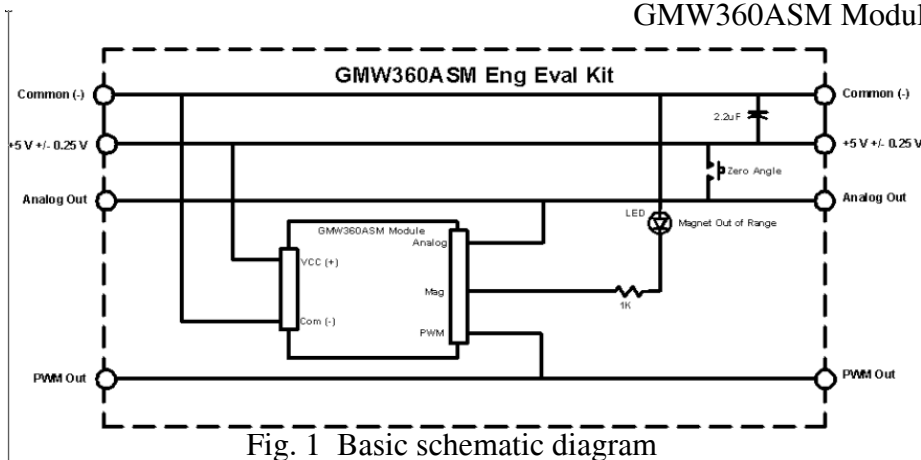
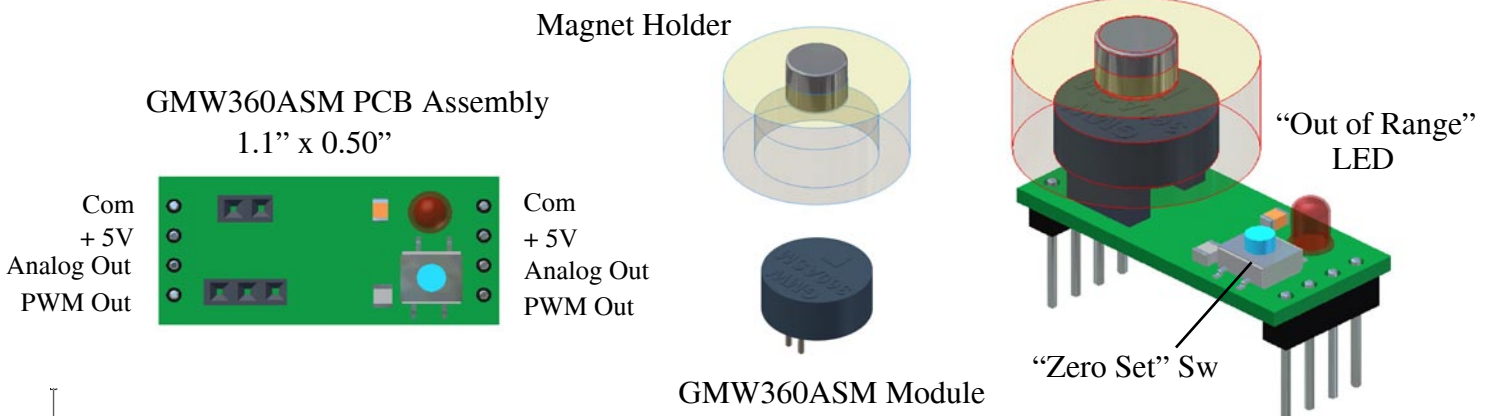
The AN_GMW360ASMKIT is used to evaluate the Non-Contact GMW360ASM Angular Sensing Module. The GMW360ASM provides Analog and PWM output signals proportional to the angle of the rotating magnet. In addition to providing the absolute angle position outputs, the GMW360ASM detects when the magnetic strength of the magnet is too low and provides a discrete magnet "Out of Range" signal which drives a LED indicator on the PCB. The electrical "Zero Angle" position can be set to correlate to any mechanical position of the magnet within 360 degrees. See the GMW360ASM_Spec for more operational details.

Kit includes:

- 1 ea PCB Assy
- 1ea GWM360ASM Module
- 1 ea Magnet and Holder

KIT OPERATION

- 1) Plug in the GMW360ASM Module onto the KIT PCB Assembly.
- 2) Connect +5VDC +/- 0.5V power to the assembly (see connection doagram below)- LED will light.
- 3) Place magnet holder and magnet onto the module as shown, LED will go out.
- 4) Rotate the magnet and "Analog Out" will swing between 0.5V to 4.5V. "PWM Out" will swing between 10% and 90% over a 360 degree range
- 5) Establish new Center Angle position ("Zero Set"). -Rotate magnet to desired "zero angle" position, turn off +5V power and momentarily depress the "Zero Set" pushbutton switch on the PCB assembly. While holding the switch down, turn the +5V power back on and then release the pushbutton switch The "Analog Out" will be set to 2.5 V and "PWM Out" will be set to 50%. (this operation can be performed up to 50,000 times)



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