

# Product Document

# AS5070

## High-Resolution On-Axis Magnetic Angular Position Sensor

### 1 General Description

The AS5070 is a high-resolution angular position sensor for precise absolute angle measurement. The AS5070 is available with an analog output interface (AS5070A) or a digital output interface (AS5070B). The latter can be programmed as a PWM or a SENT-compliant output interface.

### 2 Key Features

**Figure 1:**  
Added Value of Using AS5070

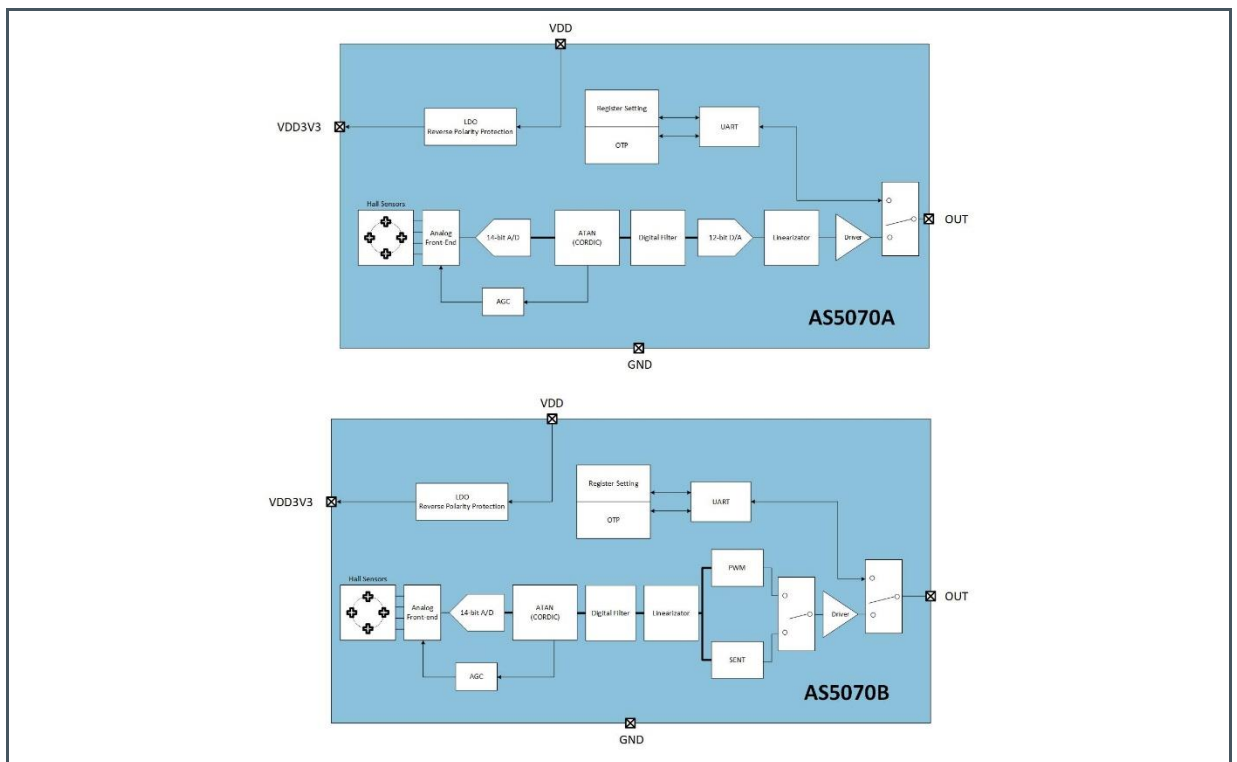
Benefits	Features
12-bit resolution @90° minimum arc	Resolve small angular excursion with high accuracy
Low output noise, low inherent INL	Accurate angle measurement
Magnetic stray field immunity	Higher durability and lower system costs (no shield needed)
Diagnostics	Enabler for safety critical applications

### 3 Applications

- Rotary button angle sensors
- Contactless potentiometers
- Liquid-level measurement systems

### 4 Block Diagram

Figure 2:  
Functional Blocks of AS5070



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