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New RAME030 30 mm Position Sensor With SSI Output Combines > 13-bit Absolute Accuracy and 17-Bit Resolution

We've introduced a new rotational absolute magnetic encoder that combines very high absolute accuracy and resolution in a small outer diameter of 30 mm. This design has been especially created to offer increased reliability and durability for the harsh operating environments of industrial and military applications. The RAME030 utilizes an advanced electronic architecture to achieve > 13-bit accuracy and 17-bit resolution, while maintaining high robustness against external magnetic fields, moisture, airborne pollution, vibration, mechanical shock, and temperature cycling.

Key Advantages

- ✓ **AGILITY:** Very small diameter size
- ✓ **ACCURACY:** Absolute accuracy of 13 bits (< 0.05°), resolution of 17 bits
- ✓ **PLUG & PLAY:** No need for calibration
- ✓ **RELIABILITY:** Excellent robustness against EMC, vibration, and shock
- ✓ **VERSATILITY:** Custom versions available on request



Main Features

- ✓ On-axis design
- ✓ Resolution of 17 bits
- ✓ Accuracy > 13 bits over the temperature range
- ✓ Outer diameter: 30 mm
- ✓ Single-turn
- ✓ Output signal: SSI
- ✓ Sampling rate: 10 kHz
- ✓ Stainless steel body
- ✓ Temperature range: -40 °C to +105 °C
- ✓ EMC: low radiated susceptibility, tested up to 200 V/m



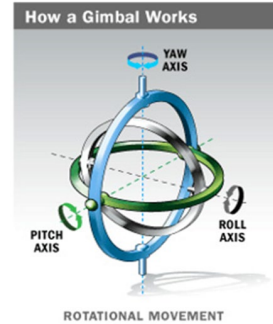


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Main Applications / Main Function = Precise and Reliable Motion

- ✓ Industrial devices: positioning systems for small industrial actuators
- ✓ Optical devices: camera gimbal
- ✓ Missiles and guided bombs: guidance (small wings) and gimbal functions (homing head)



Useful Links

- RAMK product page www.vishay.com/ppg?32587
- RAMK datasheet www.vishay.com/doc?32587

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