



New RAME012 12.7 mm Miniature Position Sensor With SSI Output Combines > 11-Bit Accuracy and 14-Bit Resolution With Increased Reliability and Durability for Military and Industrial Applications

Product Benefits:

- Small 12.7 mm outer diameter
- Advanced contactless technology achieves > 11-bit accuracy and 14-bit resolution
- Maintains robustness against external magnetic fields, airborne pollution, vibration, mechanical shock, and changes in temperature
- Stainless steel body
- On-axis design
- Light weight (< 11 g)
- Available in a single-turn variant featuring an SSI output signal
 - Other mechanical and electrical interfaces also available on request
- Plug-and-play operation eliminates the need for calibration
- Wide operating temperature range from -40 °C to +105 °C



Market Applications:

- Missile guidance systems
- Gimbals for optical balls and missile seekers
- Positioning systems for small industrial actuators (servo drives)
- Multi-dimensional mechanical measurement of surfaces using 3D probes

The News:

Vishay Intertechnology introduces a new miniature position sensor with a small 12.7 mm outer diameter that delivers higher accuracy and resolution than competing absolute encoders in the same size, while offering increased reliability and durability for the harsh operating environments of military and industrial applications.

- The body design of the RAME012 — as well as its on-axis design, slim diameter, and light weight — make it ideal for applications where little space is available, but an angular position needs to be detected with high accuracy
- With its SSI output and excellent performance / size ratio, the position sensor offers a perfect replacement for potentiometers
- The device's technology architecture provides the best performance with safety guarantees

The Key Specifications:

- Voltage power supply: 5 V (± 0.25 V)
- Accuracy at 25 °C: > 11 bits
- Resolution: 14 bits
- Useful electrical angle: 360°
- Temperature range: -40 °C to +105 °C



NEW PRODUCT INFORMATION



Product Group: Vishay MCB, Sensors / April 2022

Availability:

Samples and production quantities of the RAME012 are available now, with a lead time of 20 weeks for larger orders. To request samples, please send an email to mcbprecisionpot@vishay.com.

To access the product datasheets on the Vishay Website, go to <http://www.vishay.com/ppg?32592> (RAME012)

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