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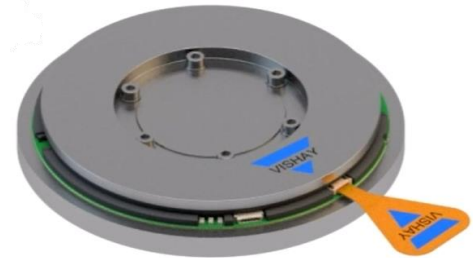


Vishay's RAMK060 Version 2.1 Position Sensor for Robotic Applications Is Now Available

Version 2.1 of the Vishay Sfernice RAMK060 high precision position sensor — which offers higher performance and agility for robotic equipment and other demanding industrial applications — is now available for designers. Key new features include embedded self-calibration, eliminating the need for additional external software, and higher mechanical compensation than current competing products. In addition, an LED color system simplifies implementation by checking mounting integrity, while memorization of the last position before power off meets current safety requirements. The RAMK060 utilizes an advanced electronic architecture to achieve > 13 bit accuracy, > 18 bit resolution, and > 16 bit repeatability, while maintaining high robustness against external magnetic fields, moisture, airborne pollution, vibration, mechanical shock, and temperature cycling.

KEY Advantages of Version 2.1

- ✓ **AGILITY:** Self-calibration enables more compensation on mechanical tolerances
 - ✓ Air-gap tolerances up to ± 0.2 mm
 - ✓ Misalignment up to ± 0.8 mm
 - ✓ Run-out up to 0.08 mm
- ✓ **PLUG & PLAY:** Easier and more comfortable mounting with LED colors
- ✓ **SAFETY:** Memorization of last position before power off
- ✓ **SMART:** Built-in self-monitoring



Main Features

- ✓ Off-axis design
- ✓ Resolution > 18 bits
- ✓ Repeatability > 16 bits
- ✓ Accuracy > 13 bits
- ✓ Dimensions: 60 mm x 25 mm x 6.5 mm
- ✓ Single or multi-turns
- ✓ Output signal: Biss-C, SSI, or SPI
- ✓ Temperature range: -40 °C to +85 °C





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Main Applications / Main Function = Precise and Repetitive Motion

- ✓ Collaborative robots: arm joint position
- ✓ Industrial robots: arm joint position
- ✓ Automated guided vehicles / mobile industrial robots: steering wheel control
- ✓ Machines tools / printing machines / textile manufacturing: repetitive motion



Useful Links

- RAMK product page www.vishay.com/ppg?32579
- RAMK datasheet www.vishay.com/ppg?32579
- RAMK060 Version 2.1 video www.vishay.com/videos/resistors/ramk060-8211-rotational-absolute-magnetic-kit-60-mm

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