



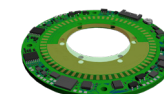
The DNA of tech.®

CAPABILITIES AND CUSTOM OPTIONS

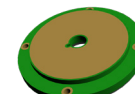
INDUCTIVE ENCODER

Features	Advantages
Insensitive to magnetic environments	Design can be used close to electrical motors
Rotation speed up to 10 000 rpm (and more on request) and latency time $\leq 5 \mu\text{s}$ (RAIK040, RAIK060)	Faster calculation process adapted to motor drives
Repeatability ≥ 17 bits (RAIK040, RAIK060)	Highly capable of repeating a similar position
Accuracy up to 13 bits (0.01 % or 0.05°) (RAIK040, RAIK060)	Highly capable of reaching an absolute accurate position
Plug and play (embedded self-calibration), LED colors (RAIK040, RAIK060)	Highly capable of compensating for mechanical tolerances, allowing for an easier mounting
Built-in self-monitoring and memorization of last position before power off (RAIK060)	Better reliability
Insensitive to moisture, pollution, temperature, vibrations, or shocks	Operational in harsh conditions
Ultraflat (5 mm) and lightweight (15 g) for the kit design (RAIK060)	High level of integration for the kit encoder
Various diameters from 25 mm to 60 mm (kit variant) and from 27 mm to 50 mm (body variant)	Design dimensions could be optimized
Customized architecture compatible with quality standard DO160/178/254	Dedicated design for incidence probe (AOA), actuators, and side stick units for commercial airplanes, eVTOL drones, and regional aircraft

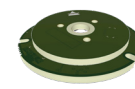
Design	Diameter (mm)	Accuracy / Resolution (bits)	Series	Output	Applications
Kit	25	10 bits / 16 bits	RAIK025*	SSI	Industrial, medical, military, off-road
	40	13 bits / 18 bits	RAIK040	BiSS-C	Industrial, medical, military, off-road
	45	10 bits / 16 bits	RAIK045I MP	SPI	Industrial, agricultural, off-road, medical, military
	45	13 bits / 18 bits	RAIK045*	SSI	Industrial, medical, military, off-road, aero
	60	13 bits / 18 bits	RAIK060	SPI, SSI, Biss-C, and single- and multi-turns	Industrial, medical, military, off-road
Body	27	11 bits / 16 bits	RAIE027* single function or redundant functions	SSI	Industrial, medical, military, off-road, aero
	50	13 bits / 18 bits	RAIE050*	SSI	Industrial, medical, military, aero



RAIK060



RAIK045



RAIK040



RAIE027



COMMERCIAL AIRPLANES



AUTOMATION



eVTOL DRONES

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