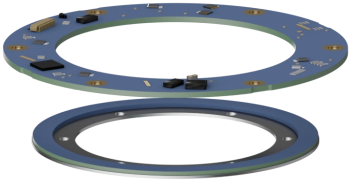

An absolute encoder of highest quality in the smallest possible size.

System Data

	IND-ROT-096-A21
Type	Axial, frameless, true absolute INDUCTIVE encoder INDUCTIVE-ROTARY-FLUX GmbH (patentpending)
Standard Resolution	22 bits, 1'048'576 4'194'304 ppr(beforex4) cpr(afterx4)
ENOB in entire mounting tolerance range	20 bits
High Accuracy	Enhanced accuracy can be achieved depending on the mounting setup
Standard Accuracy	±45",±0.012°, ±210µrad
Thickness	5.80
Hysteresis	none
Repeatability	1 resolution count
Position update rate and signal latency	Real-time
Power-up Time	max. 0.8 sec

Electrical Data

Supply voltage	Option5V:min.4.35Vdc.max.6Vdc

Reverse polarity protection	yes
Current Consumption	max.100mA@ 5Vdc, max. 30mA@24Vdc

Mechanical Data

Stator Base Material	FR4 (CTE~18ppm/°C)
Stator Weight	12.00 g
Rotor Base Material	Stainless steel (CTE~10ppm/°C)
Rotor Weight	18.00 g
Vibration	EN 60068-2-6, 20 g, 55 .. 2000 Hz
Shock	EN 60068-2-27, 200 g, 6 ms

Mounting Tolerances

Nominal Axial (air-gap)	0.50 mm
Axial Tolerance	0.30 mm (0.20 mm to 0.80 mm)
Radial Tolerances	0.20 mm

Environmental Data

Temperature Range - Standard Operating	-20°C .. +85°C
Temperature Range - Standard Storage	-20°C .. +85°C
Temperature Range - Extended Operating	-40°C .. +105°C
Temperature Range - Extended Storage	-55°C .. +125°C
Ingress Protection	IP00
EMC Immunity	complies with EN IEC 61000-6-2
EMC Emission	complies with EN IEC 61000-6-4

Advantages

- Plug-n-play
- No field calibration required
- Wide mounting tolerances
- High accuracy

Benefits

- Low installation cost
- Low integration effort
- Easy installation

pes product engineering services
Zoning de la Rivièrette, 65
7330 Saint-Ghislain (Belgium)
T : +32 (0)65 76 40 40
E : service@pes-sa.com