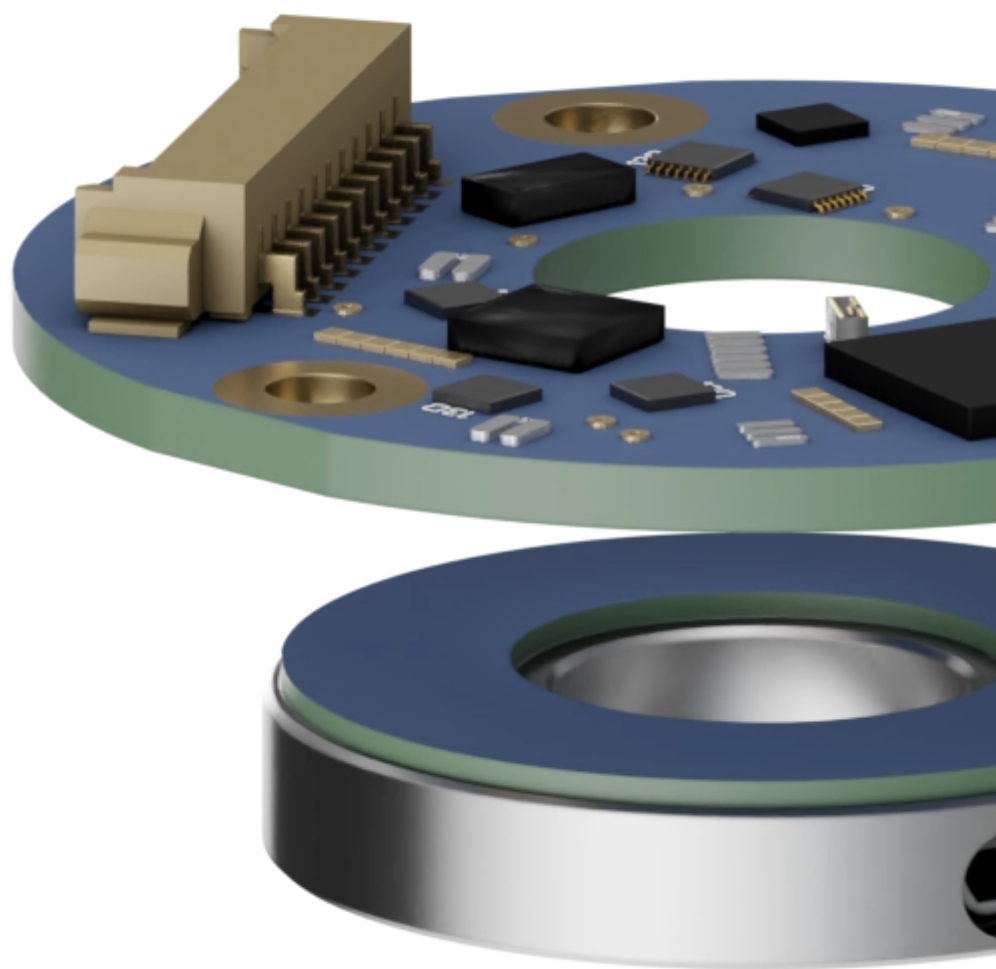


variables/V-color

**Encoder | INDUCTIVE Rotary | IND-ROT-
036-C2110-AL**





System Data

IND-ROT-036-C2110-AL

Type

Axial, frameless, true absolute
INDUCTIVE encoder

Standard Resolution

18 bits, 65'536ppr(beforex4)
262'144cpr(afterx4)B

ENOB in entire mounting tolerance range

17 bits

High Accuracy

$\pm 0.030^\circ$, $\pm 523\mu\text{rad}$

Standard Accuracy

$\pm 0.050^\circ$, $\pm 900\mu\text{rad}$

Thickness

7.80

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 OptionAV:min.4.35Vdc.max.36Vdc

Reverse polarity protection

yes

Current Consumption

max.100mA@ 5Vdc, max.
30mA@24Vdc



Mechanical Data

Stator Base Material FR4 (PCB)

Stator Weight 4.00 g

Rotor Base Material Carrier : anodized aluminum Bonded scale: FR4

Rotor Weight 5.50 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 0.30 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



Benefits

- Plug-n-play
- No field calibration required
- Wide mounting tolerances
- High accuracy
- Low installation cost
- Low integration effort
- Easy installation



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