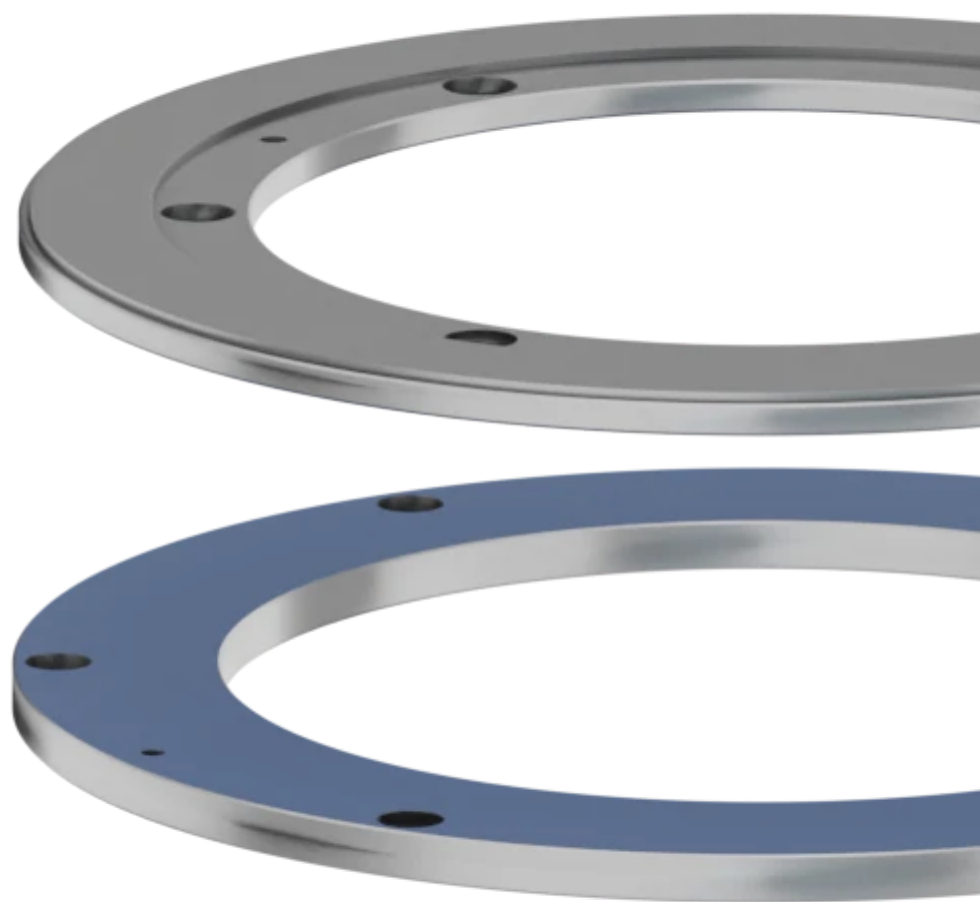


variables/V-color

Encoder | INDUCTIVE Rotary | IND-MAX-180





System Data

IND-MAX-180

Type	Axial, frameless, true absolute, inductive measuring principle
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	$\pm 0.25''$, $\pm 0.007^\circ$, $\pm 120 \mu\text{rad}$
Thickness	10.95
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 min.4.35Vdc.max.36Vdc

Reverse polarity protection yes

Current Consumption max. 150 mA @ 5 Vdc max. 50 mA @ 24 Vdc



Mechanical Data

Stator Base Material Anodized aluminum CTE ~ 24 ppm/°C

Stator Weight 200.00 g

Rotor Base Material Anodized aluminum CTE ~ 24 ppm/°C

Rotor Weight 110.00 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

IP67

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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