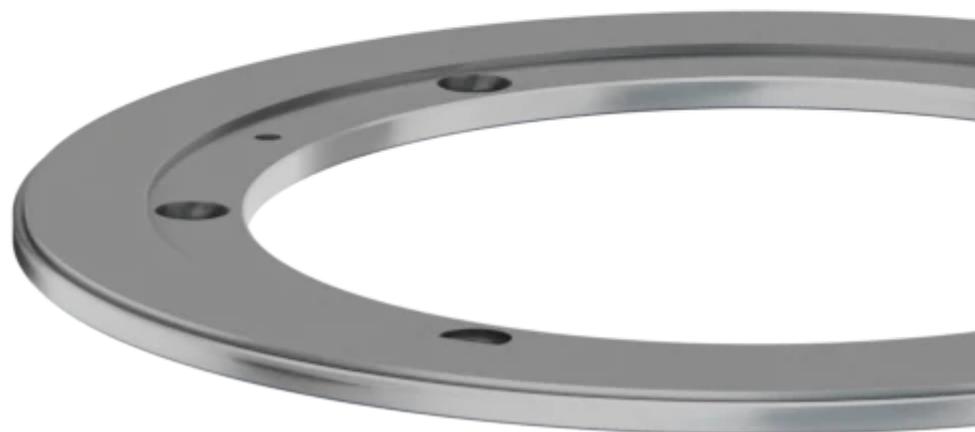


variables/V-color

# **Encoder | INDUCTIVE Rotary | IND-MAX-180**







## System Data

### IND-MAX-180

<b>Type</b>	Axial, frameless, true absolute, inductive measuring principle
<b>Standard Resolution</b>	22 bits, 1'048'576 4'194'304 ppr(beforex4) cpr(afterx4)
<b>ENOB in entire mounting tolerance range</b>	20 bits
<b>High Accuracy</b>	Enhanced accuracy can be achieved depending on the mounting setup
<b>Standard Accuracy</b>	$\pm 025''$ , $\pm 0.007^\circ$ , $\pm 120 \mu\text{rad}$
<b>Thickness</b>	10.95
<b>Hysteresis</b>	none
<b>Repeatability</b>	1 resolution count
<b>Position update rate and signal latency</b>	Real-time
<b>Power-up Time</b>	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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