

AksIM-2™

Big Ring Encoder

AksIM-2™ Big Ring Encoder is an extension to AksIM-2 family of encoders. It consists of an AksIM-2 readhead and axially magnetized rings with various outer diameters from 115 mm to 150 mm. The high performance non-contact off-axis absolute rotary encoder is designed for applications with limited installation space. The low profile readhead detects and evaluates the magnetic field of a thin magnetized ring.



HIGH SPEED



NON-CONTACT

21

20 BITS
RESOLUTION

Why choose AksIM-2™?

FEATURES:

- ✓ True absolute, high accuracy
- ✓ Low profile
- ✓ Resolution to 21 bits
- ✓ Large inner diameter
- ✓ Excellent repeatability

BENEFITS:

- ✓ Built-in self-monitoring
- ✓ Immunity to external magnetic fields
- ✓ Industry standard communication interfaces
- ✓ Wide temperature range



ROBOTIC ARM
JOINTS



MOTOR
CONTROL



MEDICAL



PAN/TILT
POSITIONING



PRECISE
GEAR BOX

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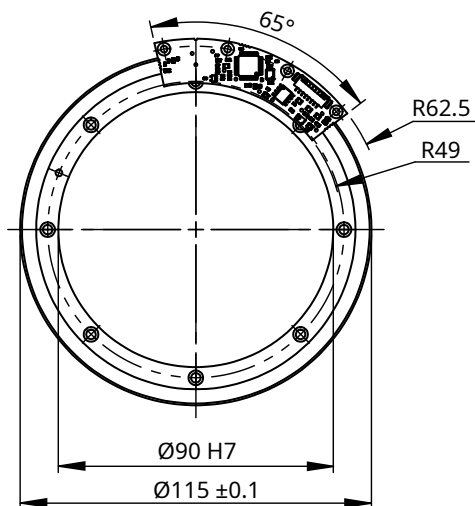
AksIM-2™ Big Ring technical specifications

SYSTEM DATA	
Reading type	Axial reading
Resolution	20 and 21 bits with optional multturn counter
Maximum speed	8k RPM
Accuracy (without eccentricity)	Size 115: < ±10 mDeg Size 150: < ±8 mDeg
ELECTRICAL DATA	
Supply voltage	5 ±0.5 V at the connector
Current consumption	Typ. 130 mA
MECHANICAL DATA	
Available ring sizes	ID: 90 mm, OD: 115 mm ID: 125 mm, OD: 150 mm
Ring material type	EN 1.4016 / AISI430 with glued CPE rubber filled with ferrite particles
ENVIRONMENTAL DATA	
Operating and storage temperature	-40 °C to +105 °C

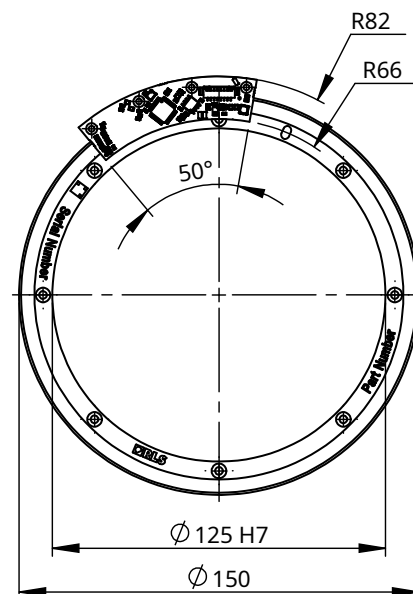
AksIM-2™ Big Ring dimensions

All dimensions in mm.

Assembly drawing - size 115



Assembly drawing - size 150



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