

AksIM[™]

off-axis absolute rotary encoder

AksIM[™] is a non-contact high performance off-axis absolute rotary encoder designed for applications in harsh environment with limited installation space. The compact, low profile readhead detects and evaluates the magnetic field of a thin, axially magnetized ring.



HIGH SPEED



NON-CONTACT

20

20 BITS
RESOLUTION



Why choose AksIM[™]?

FEATURES:

- ✓ True absolute
- ✓ Single track
- ✓ Resolution to 20 bits
- ✓ No hysteresis
- ✓ High speed

BENEFITS:

- ✓ Custom ASIC based magnetic sensor
- ✓ Built-in self-monitoring
- ✓ Integrated status LED
- ✓ BiSS, SSI, SPI, PWM or async serial
- ✓ Corrosion resistant



ROBOTIC ARM
JOINTS



PAN/TILT
POSITIONING



PRECISE
GEAR BOX



MEDICAL



MOTOR CONTROL

RLS merilna tehnika d.o.o.
Poslovna cona Žeje pri Komendi
Pod vrbami 2
SI-1218 Komenda
Slovenia

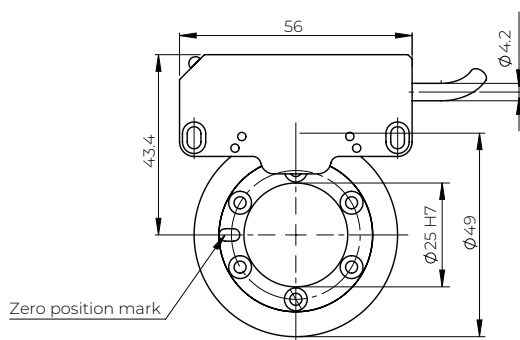
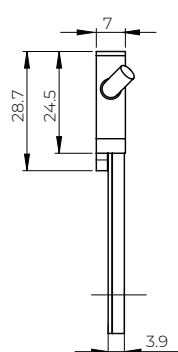
T: +386 1 5272100
F: +386 1 5272129
E: mail@rls.si

A RENISHAW  **associate company**

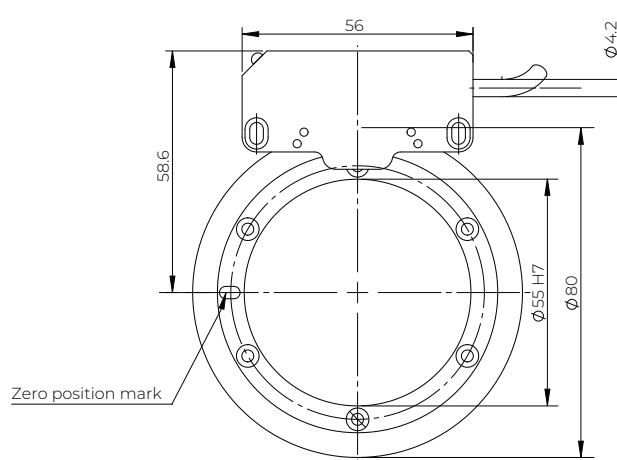
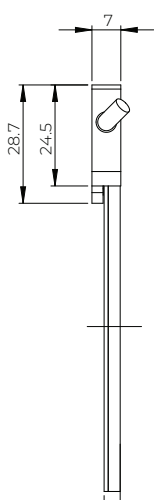
AksIM™ technical specifications

SYSTEM DATA		
Reading type	Axial reading	
Resolution	From 16 bit to 20 bit and 16 bit multiturn counter option	
Maximum speed	> 10,000 RPM	
Encoder accuracy	±0.05° (before installation)	
ELECTRICAL DATA		
Supply voltage	4 V to 6 V	
Current consumption	115 mA	
MECHANICAL DATA		
Available ring sizes (outer diameter)	49 mm (ring MRA7) 80 mm (ring MRA8)	
Cable	Ø4.2 ±0.2 mm, PUR highly flexible cable, drag-chain compatible, double-shielded	
ENVIRONMENTAL DATA		
Temperature	Operating	-30 °C to +85 °C with static cable -10 °C to +80 °C with cable under dynamic conditions
	Storage	-40 °C to +85 °C

AksIM™ dimensions



MHA7 readhead and MRA7 ring



MHA8 readhead and MRA8 ring

All dimensions in mm.

RLS d.o.o. has made considerable effort to ensure the content of this document is correct at the date of publication but makes no warranties or representations regarding the content. RLS d.o.o. excludes liability, howsoever arising, for any inaccuracies in this document. © 2018 RLS d.o.o.