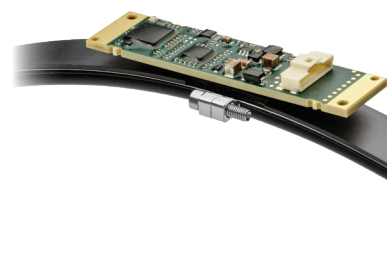


Artos™

Absolute Magnetic Encoder System

Artos™ is an absolute magnetic encoder system designed for motion control applications as a feedback element for angle and velocity control loops.

A highly reliable measurement principle and processing provide low position latency, high resolution and high angular velocity. The robust design protects the readhead and magnetic ring from liquid ingress and high temperatures, so they remain undamaged even in extremely contaminated and hot environments.



TRUE
ABSOLUTE



COMPACT
ROBUST
IP67 DESIGN



HIGH SPEED
AND RESOLUTION

Why choose Artos?

FEATURES:

- ✓ Operating temperature from
-40 °C to +100 °C
- ✓ Resolution up to 23 bits (100 nm)
- ✓ Maximum speed up to 30,000 rpm
- ✓ Compatible with rings, partial-arc and
FlexAB system

BENEFITS:

- ✓ Harsh environments
- ✓ Easy installation
- ✓ Compatible with different controllers
- ✓ Easy diagnostics
- ✓ High accuracy due to self-calibration
option



MACHINE
TOOL



ASSEMBLY
LINES



INDUSTRIAL
AUTOMATION



GIMBALS



HARSH
ENVIRONMENT

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Artos™ technical specifications



Encoder readhead type	Enclosed	PCB module
Supply voltage	4.5 V to 30 V	4.5 V to 30 V
Output communication protocols	BiSS C or SSI	BiSS C or SSI + parallel quadrature ABZ
Computational latency	11 µs	11 µs
Operating temperature	−40 °C to 85 °C	−40 °C to 85 °C
Ingress protection	IP67	Humidity - up to 70 % non-condensing
Housing material	Aluminium (Eloxal - anodised)	-
Connection	M12 - 8 way; Flying leads; D SUB 9;	Molex locking 12 way (vertical or horizontal)

Artos™ compatibility

		Ring sizes and scale lengths	Ingress protection and robustness							Operating temperature
			Dirt	Dust	Humidity	Oils	Coolants	Grease	High speed	
	Ring	Minimum: 57 mm Maximum: 478 mm outer diameter	✓	✓	✓					−40 °C to +85 °C
	Ring with cover foil	Minimum: 229 mm Maximum: 325 mm outer diameter	✓	✓	✓				✓	
	Ring with welded cover foil	Minimum: 57 mm Maximum: 162 mm outer diameter	✓	✓	✓	✓	✓	✓	✓	
	DS19 partial arc scale	From 200 mm outer diameter	✓	✓	✓					−40 °C to +100 °C
	DS19 linear scale	Up to 32 m	✓	✓	✓				✓	
	SAS19 solid scale	Up to 2.46 m	✓	✓	✓				✓	
	SAS19 solid scale with welded cover foil	Up to 2.46 m	✓	✓	✓	✓	✓	✓	✓	
	FlexAB™	From 0.5 m to 2.5 m diameter	✓	✓	✓					
										−20 °C to +85 °C

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