Spherosyn 2G and Microsyn 2G Linear Encoders

POSITION SENSORS & ENCODERS

Designed to work exclusively with Sensata | Newall's Digital Readouts, the Spherosyn 2G and Microsyn 2G encoders embody a truly innovative design in which all of the electronics and measuring components are sealed and protected. Unlike other encoder technologies, Sensata | Newall encoders carry an IP67 environmental rating and will continue to provide accurate, reliable readings even when fully submersed in water, oil or coolant. No other linear encoder matches the durability and reliability of Sensata's Newall brand.

Specifications:

	Spherosyn 2G	
Travel length	Up to 13.5 meters	Up to 1 meter
Accuracy	+/-10 μm per any one meter of travel	+/- 5 μm or +/- 10 μm
Resolution	+/- 10 μm or 5 μm (0.0005" or 0.0002")	10 μm, 5 μm, or 1 μm (0.0005", 0.0002", 0.0001", 0.00005")
Repeatability	Within one resolution count	

Mechanical:

Mechanical Specifications	**Spherosyn 2G**	**Microsyn 2G**
Scale travels	52 mm - 13,500 mm Call for travels > 13.5 m	50 mm - 1000 mm
Scale diameter / material	15.25 mm / stainless steel	6.5 mm / carbon fiber
Reader head dimensions	52 mm x 141 mm x 28 mm	35 mm x 75 mm x 18 mm
Overall scale length	Travel length + 254 mm	Travel length + 178 mm
Output cable length	2.5 meters stainless steel armor	(extension cables available)

Features

- IP67 environmental rating. Fully submersible

- Withstands dust, dirt, oil and other harsh environmental conditions

- No mechanical wear characteristics

- No more broken or scratched glass

- Requires no cleaning or regular maintenance

- High tolerance to shock and vibration

- Easy to install – no backer bar or machined surface required