



DSG & DMG

LINEAR ENCODERS

Introduction

DSG and DMG linear encoders were specifically designed to be used with competitive brands of DRO displays.

Now you can replace your glass scales with Newall's reliable inductive encoders that are impervious to coolant, oil, dirt and other environmental conditions.

The design of the DSG and DMG encoders is based on Spherosyn and Microsyn encoder technology that carries an IP67 environmental rating and is recognized throughout the world for quality, accuracy and reliability.



Features

- Integrates seamlessly to competitive brands
- Easy to install. No backer bar required.
- High tolerance to shock and vibration
- No regular maintenance or cleaning
- IP67 Rating (completely submersible)
- Travel lengths up to 13 meters

Assembly Includes:

- DSG / DMG Reader Head and Cable Assembly
- Spherosyn or Microsyn Scale Tube
- Scale Tube Mounting Brackets
- Scale Guard

Compatible with Most Brands of DRO Displays

- Acu-Rite
- SWI/Trak
- Anilam / RSF
- Mitutoyo
- Fagor
- Sargon
- Heidenhain
- And Others

All the above brands and trademarks are the property of their respective owners. Contact Sensata for brands not listed.

SPECIFICATIONS

	DSG	DMG
Core Technology	Spherosyn	Microsyn
Output Signal	TTL, 1Vpp or 11µApp	
Cable	3.5 Meter Armored with 9-pin D Connector	
Resolution	10 or 5 micron (0.0005" or 0.0002")	10, 5, 2, or 1 micron (0.0005", 0.0002", 0.0001", 0.00005")
Reference Point	none	
Scale O.D	15.25mm (0.6")	5.75mm (0.22")
Reader Head Dim.	131 x 53.5 x 28.5 (5.15" x 2.10" x 1.12")	75 x 35 x 25 (2.95" x 1.38" x 0.98")

ORDERING OPTIONS

Family
DSG: DSG
DMG: DMG

Resolution
M: 1.0µm (0.00005") (DMG only)
P: 2.0µm (0.0001") (DMG only)
S: 5.0µm (0.0002")
V: 10.0µm (0.0005")

Measuring Length
Example: 4" is 004

Adapter Cables	Part Number
Acu-Rite or Anilam with 6-pin round	ADA102
Acu-Rite or Anilam with 9-pin D style	Not needed
Sargon DRO (select 5 micron res.)	ADA106
Mitutoyo DRO with 6-pin round (select 5 micron res.)	307-81280

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 614 771 0213
sales@newall.com

Europe, Middle East & Africa

+44 (0) 116 264 2730
sales@newall.co.uk

Asia Pacific

sales@newall.com
 China +82 21 2306 1560
 Taiwan +886-2-27602006 #2570