

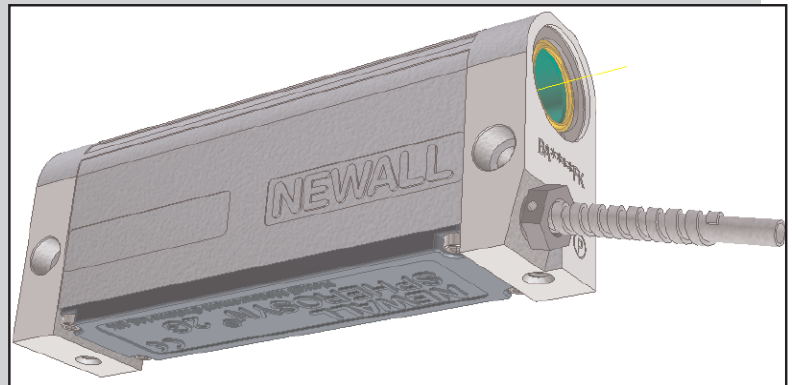
## Introduction

### Analogue Reader Head For Newall Readouts

With the world renowned Spherosyn technology the Spherosyn 2G can be used in the harshest conditions and still provide consistent and accurate feedback. The Spherosyn 2G Reader Head is compatible with all Newall DRO Displays and reverse compatible with older Newall DRO Displays by means of an adaptor cable. With new design features the Spherosyn 2G Reader Head is built to last.

### Reader Head Benefits

- » Improved alignment (more accurate machine housing)
- » Completely reverse compatible (same hole positioning as all previous Newall spherosyn reader heads and brackets)
- » Increased product longevity (Improved material reliability)
- » Unique and modern design (Stronger and more robust)
- » IP67 (NEMA 6)
- » No mechanical wear characteristics
- » Requires no cleaning or maintenance
- » High tolerance to shock and vibration



## NEWALL ENCODERS PERFORM UNDER THE HARSHEST CONDITIONS

### IP67 Rating

Ingress protection relates to sealing against the entry of solid and liquid objects. This classification system provides a convenient and reliable method of comparing relative levels of sealing between competing products.

IP67 rating indicates that the product is dust tight and protected against the effects of total water immersion up to 1m.

### No Mechanical Wear Characteristics

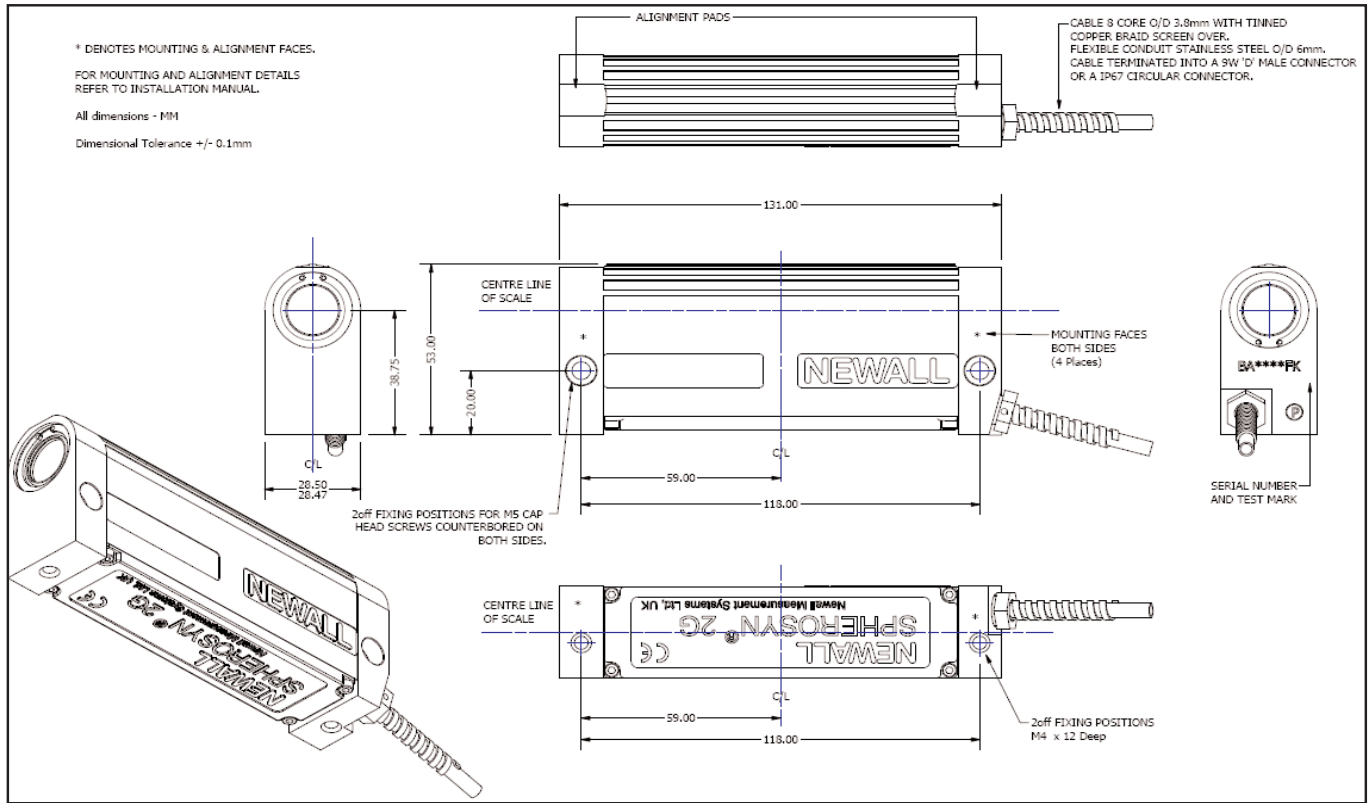
Providing high reliability, thus minimising machine down-time

### High Tolerance To Shock and Vibration

Newall's encoders have no limited mechanical life components. Also the electronic components are completely secured within the reader head, ensuring a high level of tolerance against shock and vibration. This results in high reliability thus minimising machine down-time.

### No cleaning or maintenance, just fit and forget!

Newall encoders require no scheduled or reactive cleaning. The encoder has been designed to ensure that minimum maintenance is required once the product has been installed.



**Reader Head Specification**

	<b>Spherosyn 2G</b>
<b>Environmental</b>	<b>IP67 (NEMA 6)</b>
<b>Accuracy</b>	<b>±10µm/meter</b>
	<b>±0.0004"/meter</b>
<b>Repeatability</b>	<b>Within one resolution count</b>
<b>Display Resolution</b>	<b>5µm, 10µm, 20µm, 50µm</b>
	<b>0.0002", 0.0005", 0.001", 0.002"</b>
	<b>50mm to 12040mm</b>
<b>Scale Travels</b>	<b>2" to 474"</b>
	<b>53mm x 131mm x 28.5mm</b>
<b>Reader Head Dimensions</b>	<b>(2.04" x 5.16" x 1.10")</b>
	<b>15.25mm (0.601")</b>
<b>Scale Diameter - Material</b>	<b>Stainless Steel</b>
<b>Overall Scale Length</b>	<b>Scale Travel + 258mm (10.2")</b>
<b>Overall Cable Length</b>	<b>3.5m (11') standard, 7m (22') optional, stainless steel, armoured</b>
<b>Output Signal</b>	<b>Proprietary to Newall</b>

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NOTE: Newall Measurement Systems Ltd. reserves the right to change the specification without notice.