



## SA100(R) ROTARY DIGITAL DISPLAY

BEI P/N 60012-005



### Introduction

This versatile 7-digit display reads out in degrees/minutes/seconds (DMS) or decimal degrees. Resolutions up to 0.001 degree are selectable from the front panel.

The SA100 (R) accepts a 5VDC standard differential quadrature signal from either linear or rotary incremental encoders. Incremental and absolute operating modes are available. The SA100(R) also features an auxiliary reference input, allowing integration of an independent reference marker from a remote switch. The SA100(R) comes with its own 12VDC power supply which operates on 115 VAC line voltage. A Setup Mode allows front panel programming of

- automatic calibration
- display resolution
- axis resolution
- count direction
- loss of signal error
- referencing
- angular error
- gear ratio compensation
- table radius factors

### TECHNICAL SPECIFICATIONS

<b>Construction</b>	1/16" sheet metal
<b>Dimensions</b>	Height:2.835", Width: 5.878", Depth: 2.756", Weight: 1.07lbs
<b>Operating Voltage</b>	12-27 VDC $\pm$ 10% (power supply 60012-003 included)
<b>Maximum Power Consumption</b>	6 watts
<b>Maximum Data Rate</b>	2MHz
<b>Operating Temperature</b>	0 to 45°C
<b>Storage Temperature</b>	-20 to 60°C
<b>Inputs</b>	Two channels in quadrature. Differential or single ended (user selectable)
<b>Environment</b>	Indoor use, IP20

### ENCODER INPUT (9-WAY D)

Encoder Input (9-way D)	
Pin No.	Function
1	N/C (or OV)
2	Channel A
3	Channel /A
4	Channel B

5	Channel /B
6	0V
7	+5V
8	Channel Z
9	Channel /Z



### Mounting Kit (Optional)

An optional installation kit is available for the SA100(R). The kit includes all necessary hardware to mount the SA100(R) into a panel or to attach an adjustable support for desktop use.

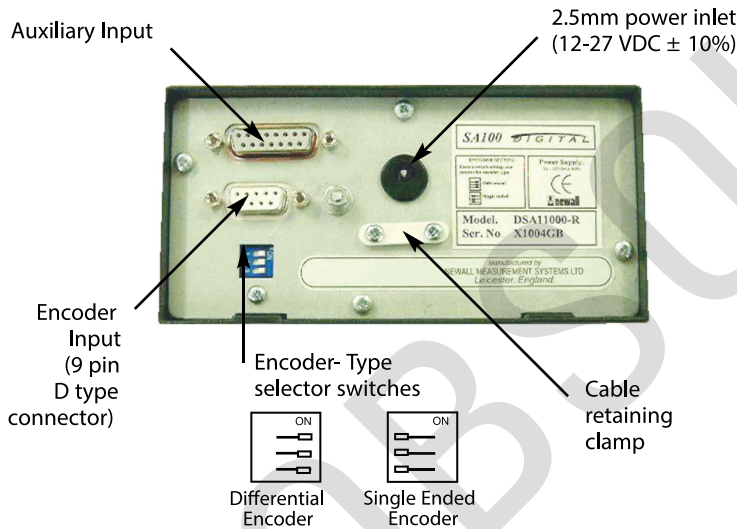
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Panel Mounting



Desktop or Support Mounting Arm



Made In France

Page 2

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