### **Precision Potentiometric Output**



SR1A is a rugged, low-cost, high performance string pot built for wet environments and outdoor applications. Originally designed for off-road construction equipment, the SR1A is the perfect low-cost solution for OEM and stocking distributors.

Available in 125-inch stroke ranges, the SR1A is constructed of a rugged polycarbonate enclosure designed to withstand impact from harsh environments and rugged conditions. Each sensor ships with a handy mounting bracket to make just about any installation very simple. Every SR1A ships with a field installable mating connector and optional cord set are available.





Dimensions : Inches (Millimetres)

### Specifications

Measurement range	: 0 - 125 inches (0 - 3,175 mm)
Accuracy	: ±0.5% FS
Environmental suitability	: NEMA 6, IP67
Operating temperature	: -40° to 185°F (-40° to 85°C)
Sensor	: Plastic-hybrid precision potentiometer
Input resistance	: 10 KΩ
Maximum input voltage	: 30 volts ac/dc
Resolution	: Essentially infinite
Repeatability	: ± 0.1% FS
Measuring cable	: 0.034 - inch diameter nylon-coated stainless
Maximum velocity	: 80 inches (2 meters) per second
Maximum acceleration	: 10 G (retraction)
Measuring cable tension	: 23 oz (6,4 N) ±30%
Cycle life	: 250,000 (potentiometer)
Enclosure	: polycarbonate
Electrical connection	: M12 connector (mating plug included)
Weight	: 2.5 lbs (1.3 Kg)

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#### **Electrical Connection**





### Changing the Cable Exit

To change measuring cable exit direction, remove the four screws that attach mounting bracket and rotate to desired position

See figs. 1-4 on the following pages for mounting dimensions

Electrical connector can also be rotated around to one of 4 different positions. Simply remove the 4 rear cover screws and rotate the cover





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