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 62-inch, 125-inch and 175-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 cordsets are available.

**Specifications**

**Measurement Range, SR1A-62**
0–62 in. (0–1575 mm)

**Measurement Range, SR1A-125**
0–125 in. (0–3175 mm)

**Measurement Range, SR1A-175**
0–175 in. (0–4445 mm)

**Accuracy** ± 0.5% FS.

**Sensor** plastic-hybrid precision potentiometer

**Input Resistance** 10K ohms

**Maximum Input Voltage** 30 volts AC/DC

**Resolution** essentially infinite

**Repeatability** ± 0.1% FS.

**Measuring Cable** .034-inch dia. 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)

**Environmental Suitability** NEMA 6, IP67

**Operating Temperature** -40˚ to 185˚ F (-40˚ to 85˚ C)

**Weight** 2.5 lbs. (1.3 Kg)

**Output Signal**

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**SR1A**

Cable Actuated Sensor
Industrial • Voltage Divider Output

Precision Potentiometric (Voltage Divider) Output

0–62, 0–125 and 0-175 inch Range Options

Designed for Outdoor & IP67 environments

In Stock for Quick Delivery!
Electrical Connection

<table>
<thead>
<tr>
<th>output signal</th>
<th>connector pin</th>
<th>colorcode (cordset)</th>
</tr>
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<tbody>
<tr>
<td>+in</td>
<td>1</td>
<td>brown</td>
</tr>
<tr>
<td>common</td>
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<tr>
<td>+out</td>
<td>3</td>
<td>blue</td>
</tr>
<tr>
<td>n/c</td>
<td>4</td>
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</table>

Changing the Cable Exit

**Changing Measuring Cable Exit**
To change the direction of the measuring cable, remove the 4 mounting bracket screws and rotate bracket to one of four available positions. See figures 1 - 4 on the following pages for mounting dimensions.

**Changing Electrical Connector Direction**
To change the position of the electrical connector, remove the 4 rear cover screws and carefully separate rear cover from the sensor body.

Rotate the rear cover to desired position being careful to not tangle the wiring harness that runs to the connector.
Fig. 1 - Outline Drawing (as shipped)

Fig. 2 - “Up” Cable Exit Direction
Fig. 3 - “Down” Cable Exit Direction

Fig. 4 - “Rear” Cable Exit Direction

units are in inches [mm] tolerances are ±.04 [1.0] unless otherwise noted
Ordering Information

Order No. SR1A-62
62-inch stroke range, voltage divider output, 4-pin M12 mating plug & mounting bracket included.
Part No. 9036810-0040

Order No. SR1A-125
125-inch stroke range, voltage divider output, 4-pin M12 mating plug & mounting bracket included.

Order No. SR1A-175
175-inch stroke range, voltage divider output, 4-pin M12 mating plug & mounting bracket included.

OPTIONAL CORDSET
for short-run connections, a convenient optional 13-ft. cordset with a 4-pin M12 connector is available.

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SR1A 12/01/2015