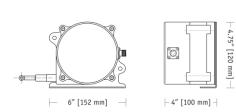




175-inch model shown



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.

# 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!

## **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  $\pm 0.5\%$  FS.

Sensor plastic-hybrid precision potentiometer

Input Resistance10K ohmsMaximum Input Voltage30 volts AC/DCResolutionessentially infinite

Repeatability  $\pm 0.1\%$  FS.

Measuring Cable .034-inch dia. nylon-coated stainless

Maximum Velocity 80 inches (2 meters) per second

Maximum Acceleration10 g (retraction)Measuring Cable Tension23 oz. (6,4 N) ±30%

Cycle Life 250,000 (potentiometer)

**Enclosure** Polycarbonate

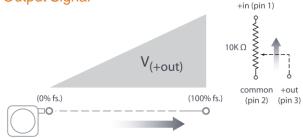
Electrical Connection M12 Connector (mating plug included)

Environmental Suitability NEMA 6, IP67

Operating Temperature -40° to 185° F (-40° to 85° C)

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

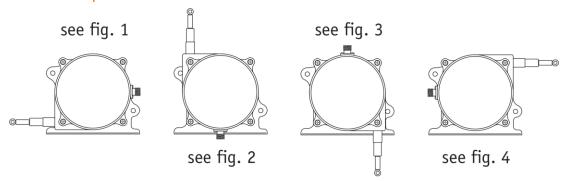
## Output Signal



## **Electrical Connection**

	output signal		colorcode (cordset)	+in (1)
	+in common +out n/c	1 2 3 4	brown white blue black	+out (3) com (2)
4 -	2 contact view	.25 in [6 mm] max. cable dia.	4 — (con	1.7" [45 mm] — 22 AWG (.34mm²)  22 AWG (.34mm²)  22 AWG (.34mm²)

## Cable Exit Direction Options



## 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.

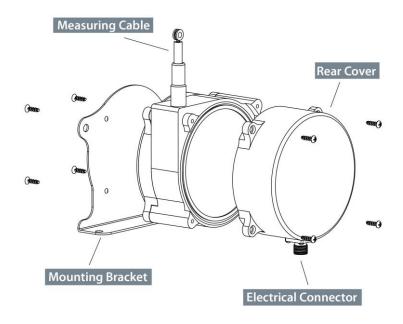


Fig. 1 - Outline Drawing (as shipped)

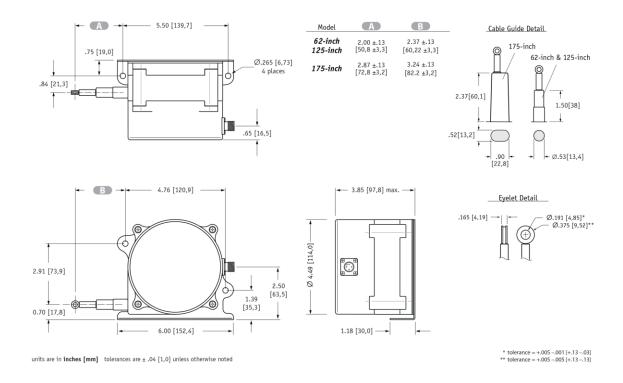
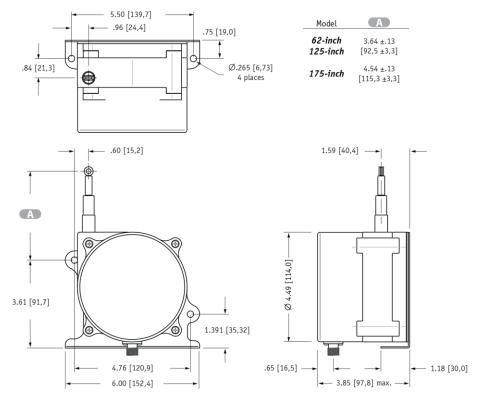


Fig. 2 - "Up" Cable Exit Direction



SENSOR SOLUTIONS /// SR1A 12//2015 Page 3

Fig. 3 - "Down" Cable Exit Direction

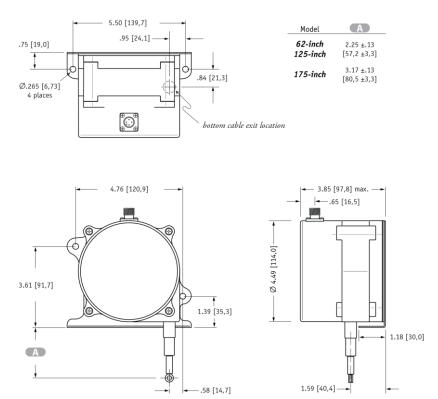
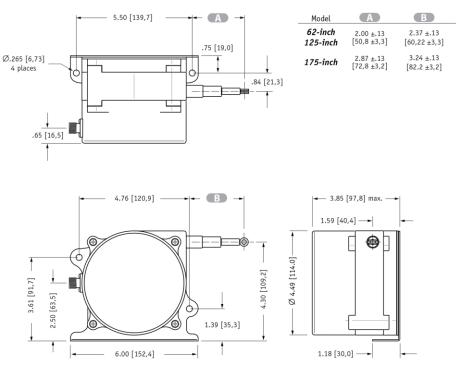


Fig. 4 - "Rear" Cable Exit Direction



units are in inches [mm] tolerances are  $\pm$  .04 [1,0] unless otherwise noted

SENSOR SOLUTIONS /// SR1A 12//2015 Page 4

## **Ordering Information**



Order No.

# SR1A-62

62-inch stroke range, voltage divider output, 4-pin M12 mating plug & mounting bracket included.



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.

Part No.

9036810-0040



#### **OPTIONAL CORDSET**

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

#### **NORTH AMERICA**

Measurement Specialties, Inc., a TE Connectivity company 20630 Plummer Street Chatsworth, CA 91311 Tel +1 800 423 5483 Tel +1 818 701 2750 Fax +1 818 701 2799

info@celesco.com

#### TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

SR1A 12/01/2015