

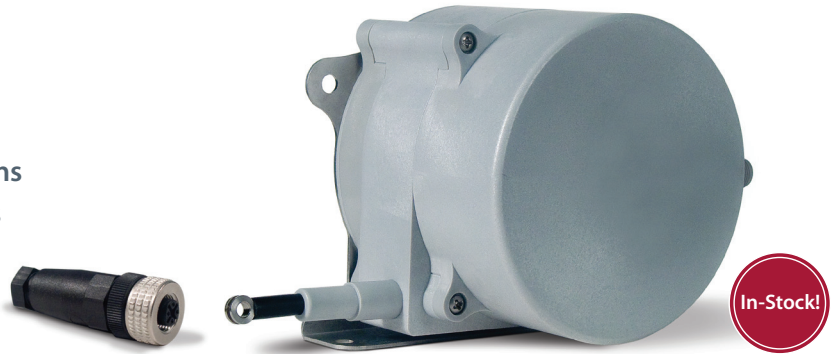
SR1E

Industrial Low Cost String Pot

Incremental Encoder Output Signal

0-125, 0-175 inch Full Stroke Range Options

Designed for Outdoor / Wet environments



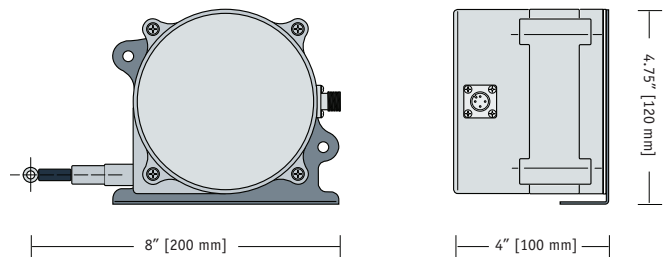
The SR1E is rugged, low-cost, high performance string pot built to withstand wet environments and outdoor applications. Designed for construction equipment and factory use, the SR1E is the perfect low-cost solution for OEM and stocking distributors.

At the heart of this sensor is a robust incremental encoder that delivers a linear resolution of 101 pulses per inch. The SR1E ships with an industry standard push-pull encoder driver that can be powered by 5-30 VDC. (Other resolutions and complimentary channels are available, please consult factory). Each sensor ships with a 4-pin, field installable, M12 connector and an additional 13 ft. (4 m) cordset is also available. Just like the rest of our SR1 series, the SR1E is in stock for quick delivery.

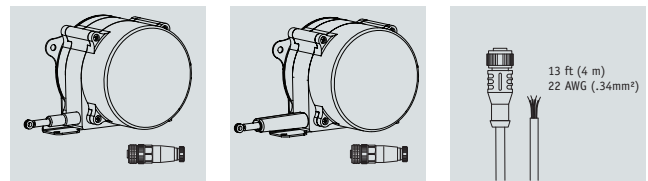
SPECIFICATIONS

Input Voltage	5-30 VDC
Input Current	100 mA max., no load
Sensor	incremental encoder
Output Driver Type	push-pull (note: $V_{in} = V_{out}$)
Output Driver Current	20 mA max., source/sink
Maximum Velocity	80 inches (2 meters) per second
Maximum Acceleration	10 g (retraction)
Operating Temperature	-4° to 185° F (-20° to 85° C)
Enclosure	polycarbonate
Measuring Cable	.034-inch dia. nylon-coated stainless
Electrical Connection	M12 Connector (mating plug included)
Weight	2.5 lbs. (1.3 Kg)

Full Stroke Range, SR1E-125	125 inches (3175 mm)
Full Stroke Range, SR1E-175	175 inches (4445 mm)
Output Signal	incremental encoder
Resolution	101 \pm 2 pulses per inch
Accuracy	\pm .1% FS.
Repeatability	\pm .05% FS.
Environmental Suitability	NEMA 6, IP67



Ordering Information

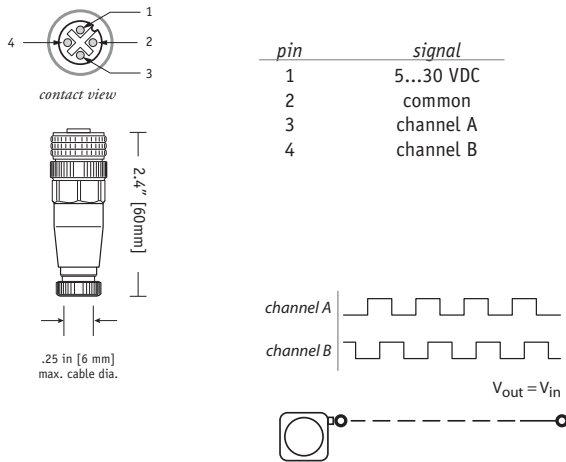


Part No. SR1E-125	Part No. SR1E-175	Part No. 9036810-0040
125-inch stroke range, M12 field-installable connector, IP67 environments, mounting bracket included	175-inch stroke range, M12 field-installable connector, IP67 environments, mounting bracket included	OPTIONAL CORDSET for short-run connections, a 13-ft. cordset with 4-pin M12 connector

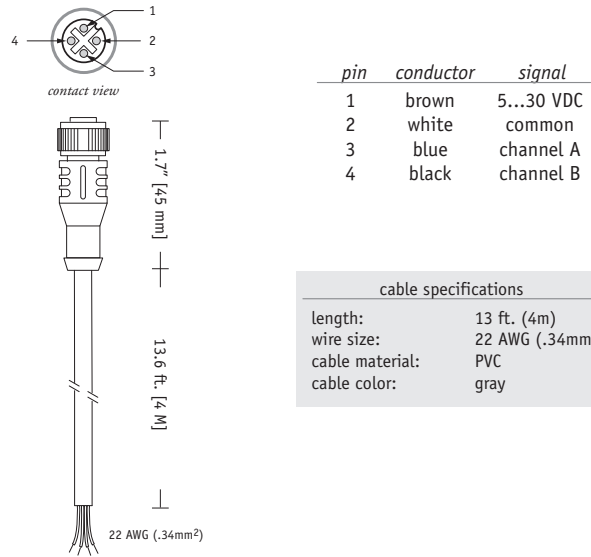
Consult factory for alternate resolution and differential output signals.

Electrical Connection

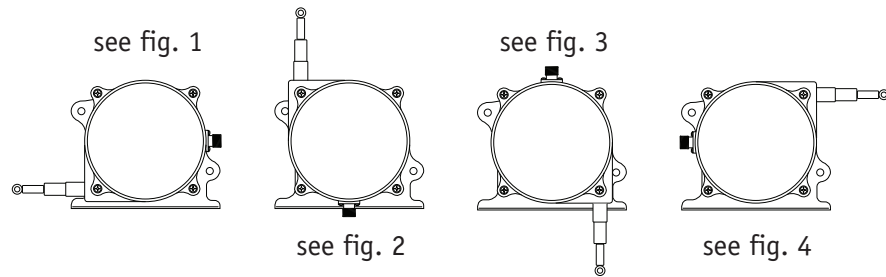
Field Installable Connector



Cord Set Connections



Cable Exit Direction Options



Changing the Measuring Cable Exit and Electrical Connector Direction

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.

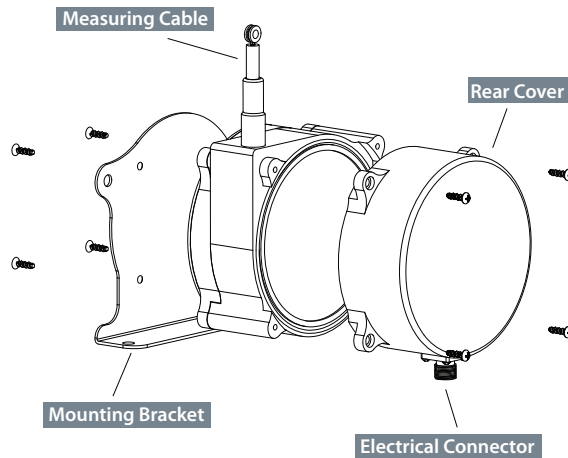
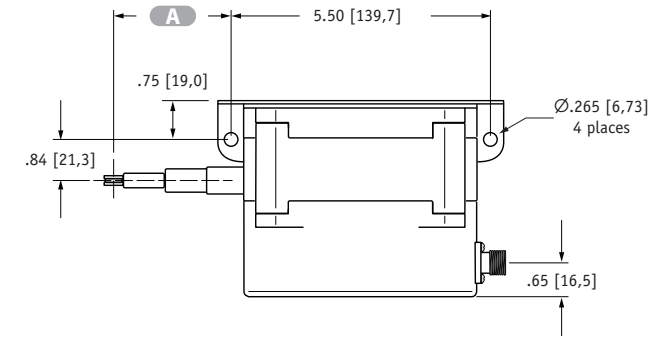
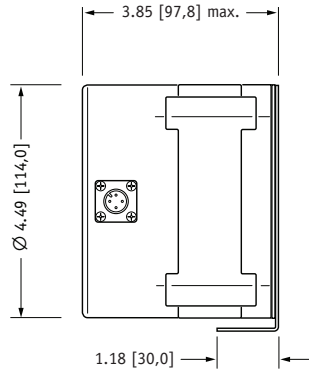
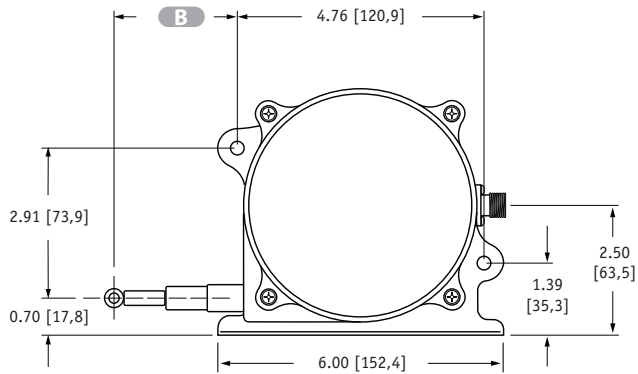
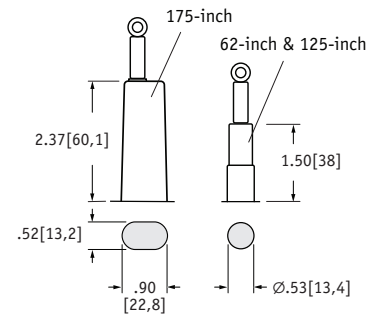


Fig. 1 - Outline Drawing (as shipped)

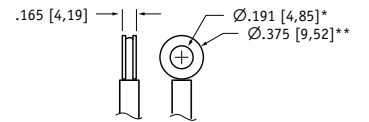


Model	A	B
62-inch	2.00 ±.13 [50,8 ±3,3]	2.37 ±.13 [60,22 ±3,3]
125-inch	2.87 ±.13 [72,8 ±3,2]	3.24 ±.13 [82,2 ±3,2]

Cable Guide Detail



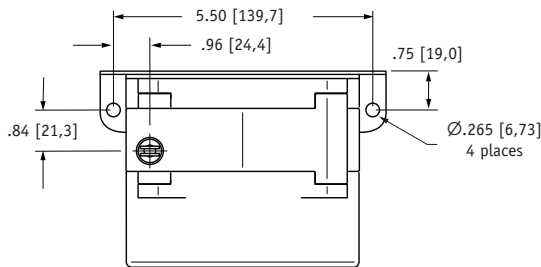
Eyelet Detail



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

* tolerance = +.005 - .001 [+13 - .03]
** tolerance = +.005 - .005 [+13 - .13]

Fig. 2 - "Up" Cable Exit Direction



Model	A
62-inch	3.64 ±.13 [92,5 ±3,3]
125-inch	4.54 ±.13 [115,3 ±3,3]

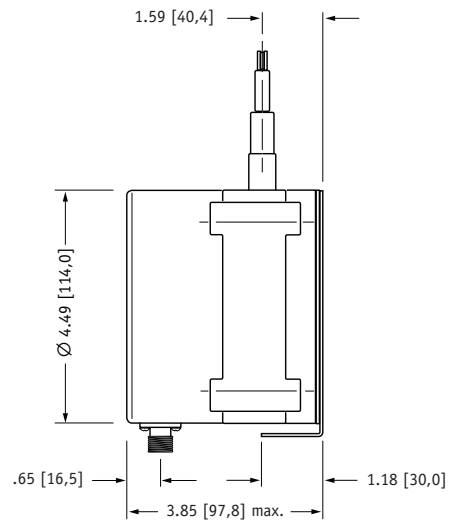
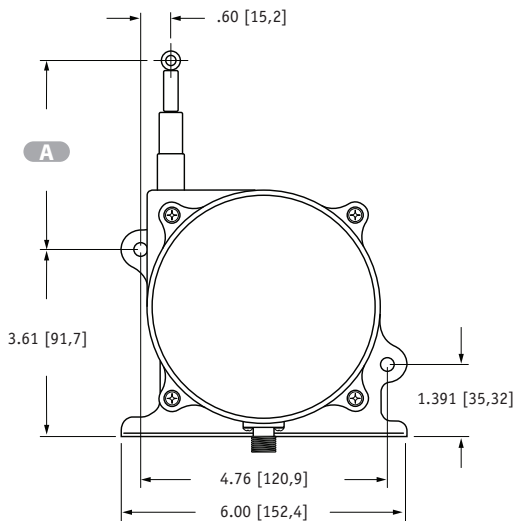


Fig. 3 - "Down" Cable Exit Direction

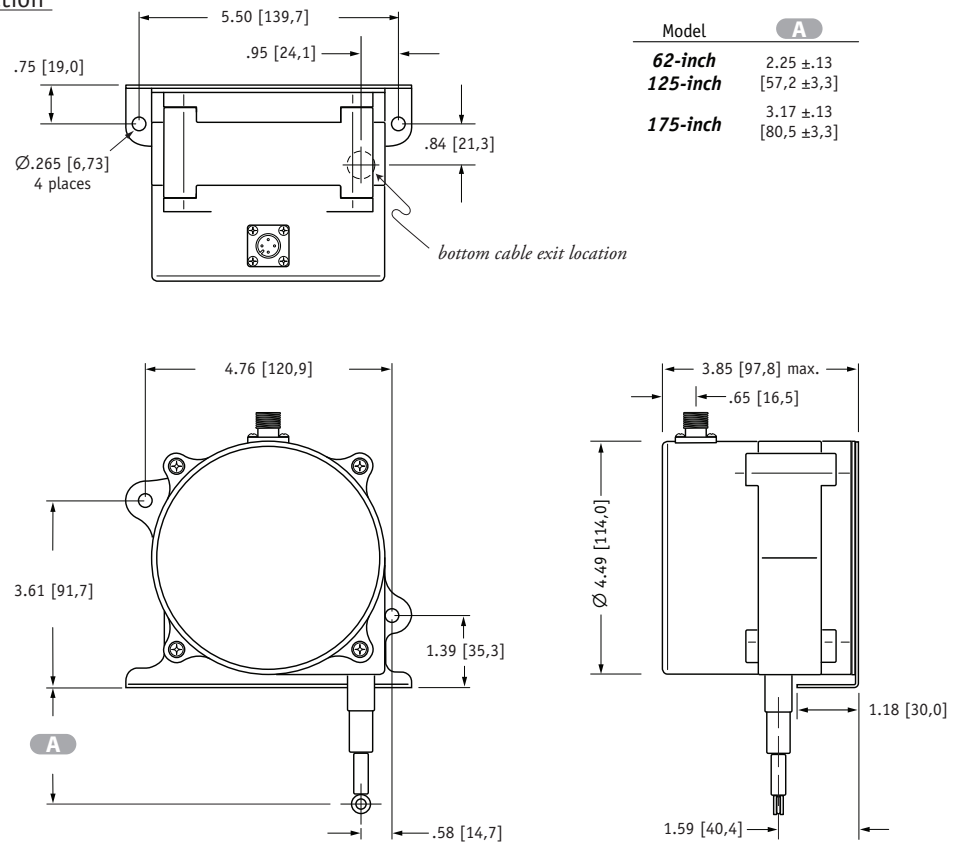
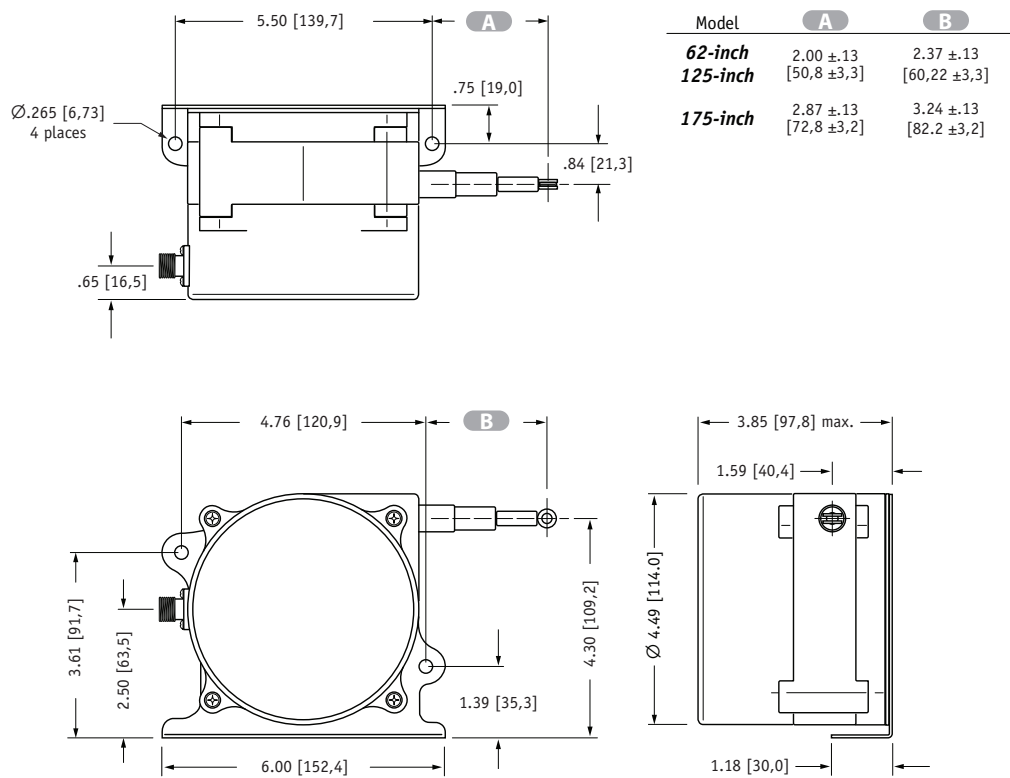


Fig. 4 - "Rear" Cable Exit Direction



version: 2.0 last updated: February 28, 2012

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

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