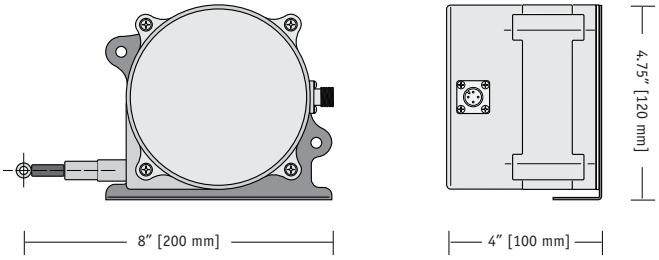
SR1A

Industrial Low Cost String Pot

Precision Potentiometric (Voltage Divider) Output
0–62, 0–125 inch Measurement Range Options
Designed for Outdoor / Wet environments

COMPLETE SPECIFICATIONS

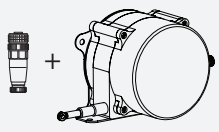
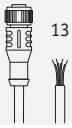
Measurement Range, **SR1A-62**	0-62 in. (0-1575 mm)
Measurement Range, **SR1A-125**	0-125 in. (0-3175 mm)
Accuracy	.5% FS.
Environmental Suitability	NEMA 6, IP67
Operating Temperature	-40˚ to 185˚ F (-40˚ to 85˚ C)
Maximum Input Voltage	30 volts AC/DC
Repeatability	.1% FS.
Resolution	essentially infinite
Maximum Velocity	80 inches (2 meters) per second
Maximum Acceleration	10 G (retraction)
Measuring Cable Tension	23 oz. (6,4 N) ±30%
Measuring Cable	.034-inch dia. nylon-coated stainless
Sensor	plastic-hybrid precision potentiometer
Cycle Life	250,000 (potentiometer)
Enclosure	polycarbonate
Electrical Connection	M12 Connector (mating plug included)
Weight	2.5 lbs. (1.3 Kg)



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 and 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 cordsets are available.

Ordering Information

	part number	description
	**SR1A-125**	SR1A String Pot 125-inch Measurement Range includes 4-pin M12 connector
	SR1A-62	SR1A String Pot 62-inch Measurement Range includes 4-pin M12 connector
 13 ft (4 m)	**9036810-0040**	Optional Cordset w/ 4-pin M12 connector

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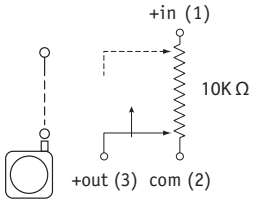
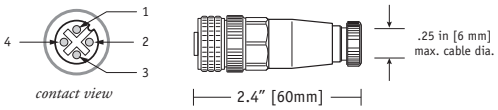
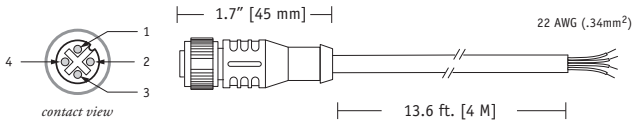
Electrical Connection

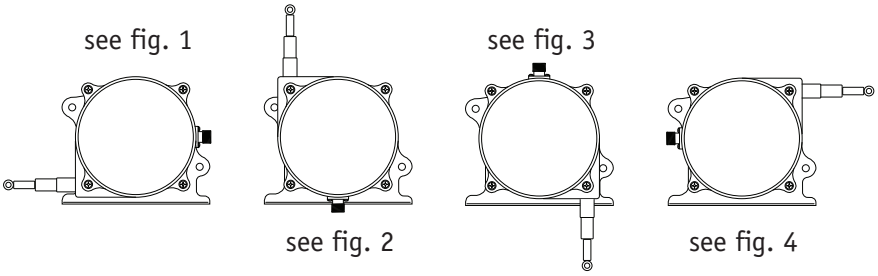
output signal	connector pin	colorcode (cordset)
+in	1	brown
common	2	white
+out	3	blue
n/c	4	black







Measuring Cable Exit Direction Options

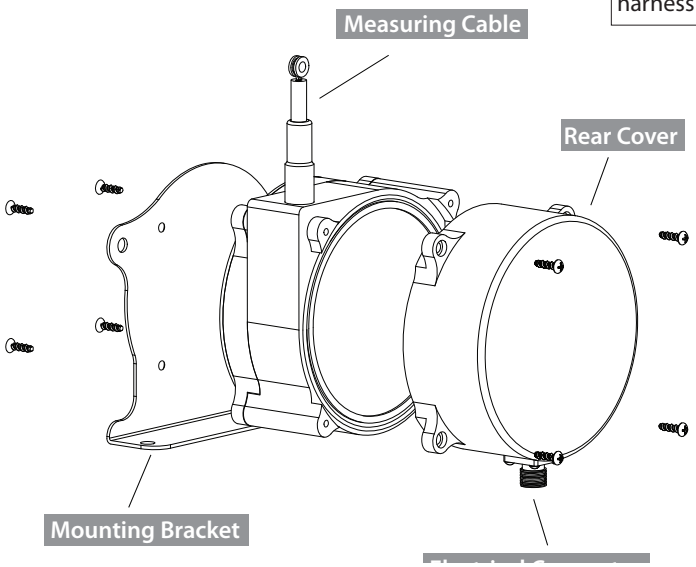


Changing the Measuring Cable Exit and Electrical Connector Direction

To change Measuring Cable Exit Direction, remove the four mounting bracket screws and rotate bracket to desired position.

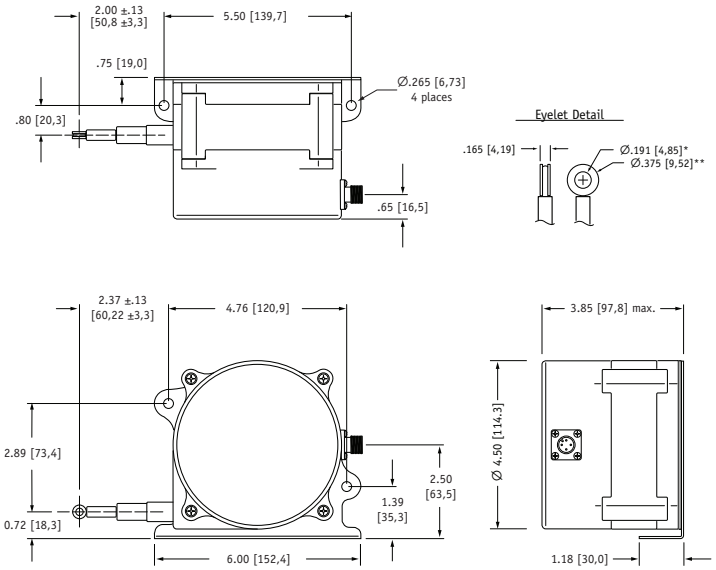
To change the position of the electrical connector, remove the 4 rear cover screws and carefully separate rear cover from the sensor body.

Rotate the rear cover to desired position being careful to not tangle the wiring harness that runs to the connector.



Outline Drawings

Fig. 1 - "Front" Cable Exit Direction (as shipped)



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

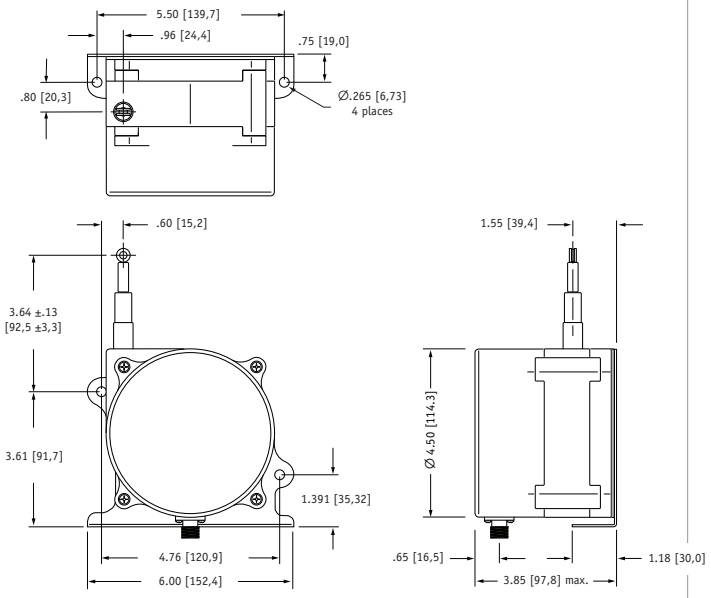


Fig. 3 - "Down" Cable Exit Direction

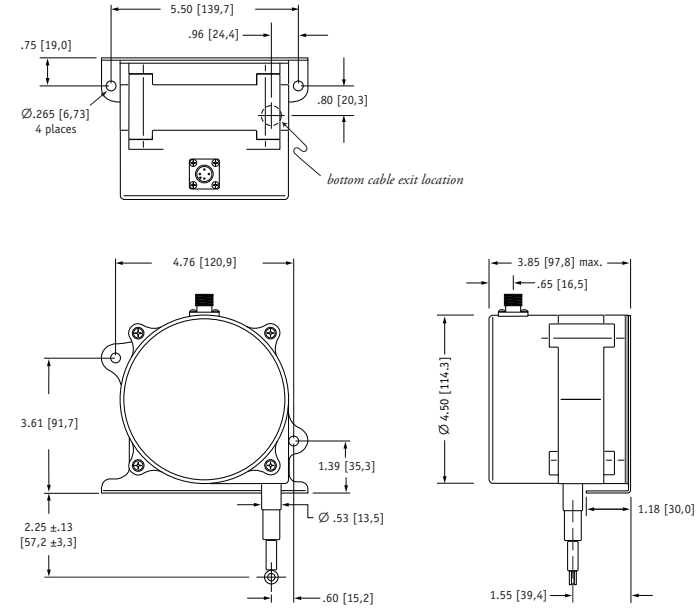
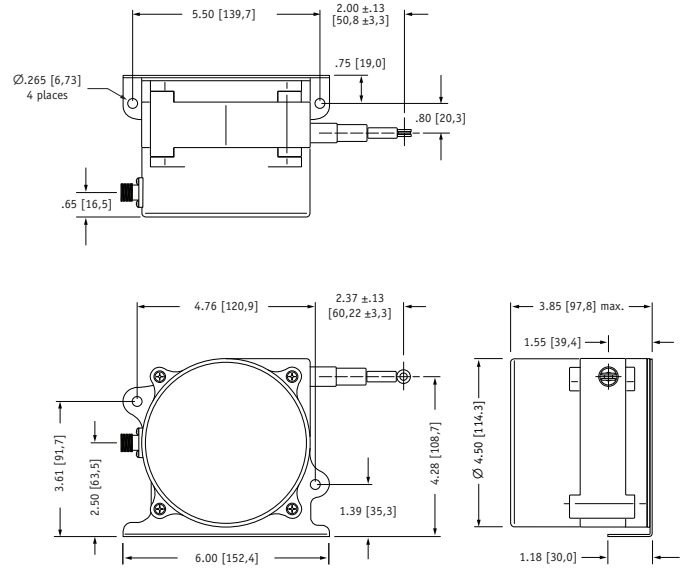


Fig. 4 - "Rear" Cable Exit Direction



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