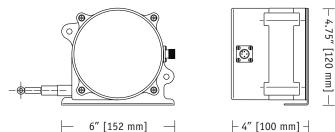
SR1V Industrial • User Scalable VDC Output Signal

User Adjustable Stroke Range to 175 inches (3 meters) User Selectable 0–5, 0–10, ⁻5–⁺5, ⁻10–⁺10 VDC Output **Designed for Outdoor & IP67 environments** In Stock for Quick Delivery!



6" [152 mm]



SPECIFICATIONS

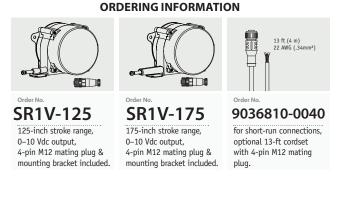
125 inches (3175 mm), maximum
175 inches (4445 mm), maximum
1 inches (25 mm)
0−5, 0−10, ⁻ 5− ⁺ 5, ⁻ 10− ⁺ 10 VDC
'DC (10-30 VDC for 0–5, ⁻5–⁺5 volt signal)
50 mA, max.
20 mA
nches (254 mm) .5% FS.
iches (254 mm) consult factory
.1% FS.
.0015% FS.
1 msec
80 inches (2 meters) per second
10 g (retraction)
23 oz. (6,4 N) ±30%
plastic-hybrid precision potentiometer
plastic-flybrid precision potentionneter
250,000 (potentiometer)
250,000 (potentiometer)
250,000 (potentiometer) polycarbonate
250,000 (potentiometer) polycarbonate .034-inch dia. nylon-coated stainless
250,000 (potentiometer) polycarbonate .034-inch dia. nylon-coated stainless M12 Connector (mating plug included)



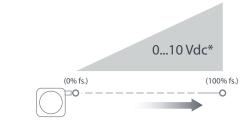
175-inch model shown

The SR1V is part of a series of rugged, low-cost, high performance string pots built for wet environments and outdoor applications. Designed for the rigors of outdoor construction equipment or the demands of a factory floor, the SR1M is the perfect low-cost solution for OEM and stocking distributors.

What sets this sensor apart from other string pots, is the internal programmable digital circuitry that gives the customer a one-size-fits-all approach for many applications. The SR1V ships factory calibrated to the full stroke range but the output signal can be easily re-scaled to match any stroke down to 1 inch (25 mm).



Output Signal:



*Additional Output Options: 0...5, -5...+5, -10...+10 Vdc

20630 Plummer Street

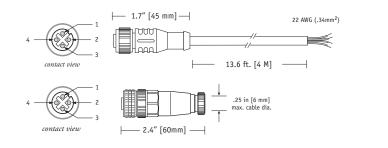
Chatsworth, CA 91311 tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799



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Electrical Connection

output signal	connector pin	colorcode (cordset)
1530 vdc	1	brown
output signal	2	white
common	3	blue
n/c	4	black



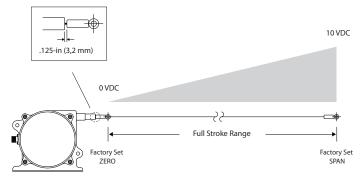
Factory Calibrated Stroke Range

The full scale output signal is set at the factory to the maximum full stroke range. The ZERO point (output = 0 Vdc) is

set at the beginning* of the stroke range (0 inches) and the SPAN point (output = 10 Vdc) is set to the end of the range (125 inches or 175 inches depending on model).

**Important* — The ZERO point is set at the factory with the measuring cable pulled out .125 inches from full retraction.

This is for the factory setting only and the ZERO may be reprogrammed at full retraction at any time.



Changing the Cable Exit

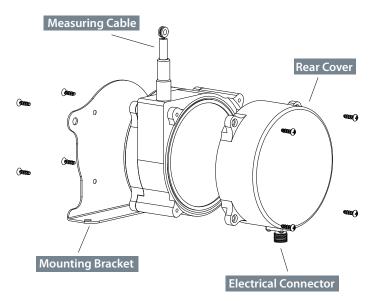
Changing Measuring Cable Exit

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.

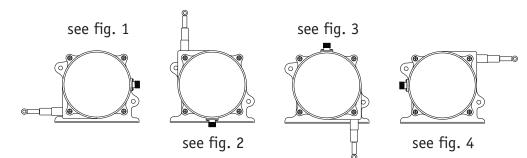
Changing Electrical Connector Direction

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.



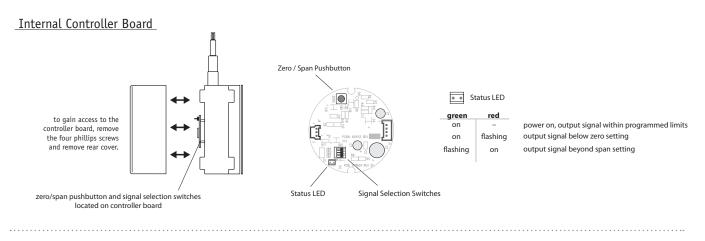
Cable Exit Direction Options



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Changing Output Signal

Reprogramming ZERO and SPAN:

Though ZERO and SPAN points have been preset at the factory, they can easily be changed to match any desired stroke within the full stroke limits of the sensor. To reprogram the SR1V to your own settings, remove the rear cover to gain access to the internal controller board. Locate the push-button on the circuit board and follow the instructions below.

Factory Set Span Factory Set Zero

Please note that ZERO and SPAN points can be set independently. You can set one without setting the other. This operation must be performed with the sensor under power. *Important: when you are finished, disconnect power for a couple of seconds to permanently set your new settings.*

Setting Span:

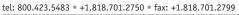
Set the cable to the desired SPAN limit then depress and hold the button until the STATUS LED begins to flash RED. Release the button (when the LED is flashing RED, not GREEN) and the flashing will slow down to about two-second intervals which indicates the SPAN value is being set into memory. When completed, the STATUS LED will display solid GREEN.

Setting Zero:

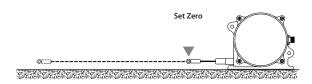
Set the cable to the desired ZERO limit and then depress and hold the button until the STATUS LED begins to flash GREEN. Release the button (when the LED is flashing GREEN, not RED) and the flashing will slow down to about two-second intervals which indicates the ZERO value is being set into memory. When completed, the STATUS LED will display solid GREEN. Remove power for 2 seconds then reconnect.

Changing the Output Signal:

	i İ	5	witch settin	on gs off	
	zero spar	SW1	SW2	SW3	SW4
output signal options (VDC)	0 5	off	off	off	off
	5 0	on	off	off	off
	0 10	off	off	off	on
	10 0	on	off	off	on
	-5 +5	off	off	on	off
	+55	on	off	on	off
	-10+10	off	on	off	off
(+1010	on	on	off	off







The SR1V leaves the factory set with a 0...10 VDC full scale output signal. The signal can be reversed or changed to either 0...5, -5...+5 or -10...+10 VDC (see illustration) by simply changing a dipswitch located on the controller board.

If you wish to simply reverse the output signal or change it to a different voltage range, you may do so without resetting the "zero" and "span" points.

Remove the rear cover to gain access to the board.



— 4.76 [120,9] —

6.00 [152,4]

 (Θ)

 (Θ)

Ø.265 [6,73]

4 places

Ø 4.49 [114,0]

2.50 [63,5]

1.39

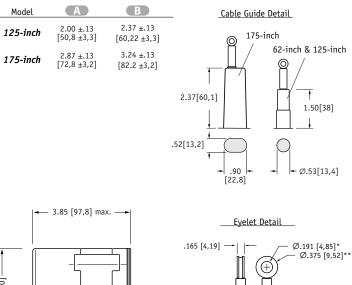
[35,3]

٢O_a

1.18 [30,0]

.65 [16,5]

Ć



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

Fig. 2 - "Up" Cable Exit Direction

B -+++

0

(⊛)

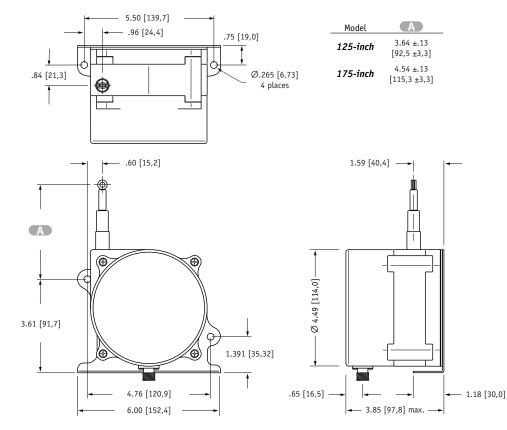
units are in inches [mm] tolerances are ± .04 [1,0] unless otherwise noted

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.84 [21,3]

2.91 [73,9]

0.70 [17,8]

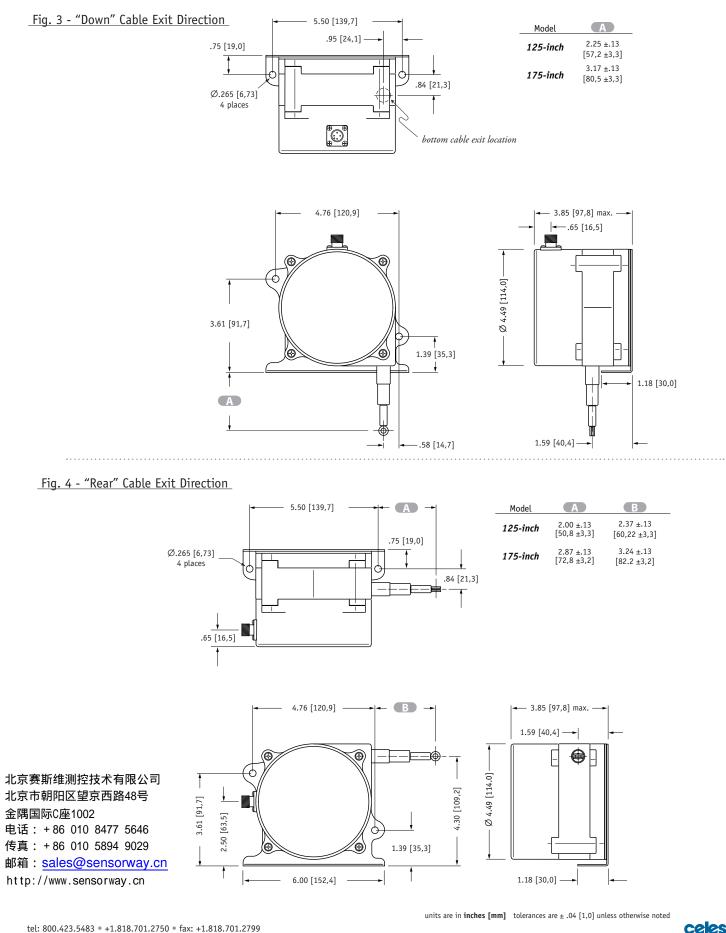


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