

SR1E mm

### Description

- Linear Position up to 175 inches (3 meters)
- 0-125, 0-175 inch Full Stroke Range Options
- Designed for Outdoor & IP67 environments
- In Stock for Quick Delivery!



#### SPECIFICATIONS

Full Stroke Range, SR1E-125	125 inches (3175 mm)
Full Stroke Range, SR1E-175	175 inches (4445 mm)
Output Signal	incremental encoder
Resolution	101 ±2 pulses per inch
Accuracy	± .1% FS.
Repeatability	± .05% FS.
Input Voltage	5-30 VDC
Input Current	100 mA max., no load
Sensor	incremental encoder
Output Driver Type	push-pull (note: Vin = Vout)
Output Driver Current	20 mA max., source/sink
Maximum Velocity	80 inches (2 meters) per second
Maximum Acceleration	10 g (retraction)
Measuring Cable Tension	23 oz. (6,4 N) ±30%
Enclosure	polycarbonate
Measuring Cable	.034-inch dia. nylon-coated stainless
Electrical Connection	M12 Connector (matingplug included)
Environmental Suitability	NEMA 6, IP67
Operating Temperature	-4° to 185° F (-20° to 85° C)
Weight	2.5 lbs. (1.3 Kg)



### Ordering information











incremental encoder output, incremental encoder output, 4-pin M12 mating plug & mounting bracket included. mounting bracket included.

Output signal

4-pin M12 mating plug &







13 ft (4 m) 22 AWG ( 34mm<sup>2</sup>

9036810-0040

for short-run connections,

optional 13-ft cordset with

4-pin M12 mating plug.

Order No



175-inch model shown



### Electrical Connection

#### Field Installable Connector



pin	signal
1	530 VDC
2	common
3	channel A
4	channel B

#### **Cord Set Connections**

Т

1.7" [45 mm]

+

13.6 ft. [4 M]

\_\_\_\_\_ 22 AWG (.34mm<sup>2</sup>)

contact

pin	conductor	signal
1	brown	530 VDC
2	white	common
3	blue	channel A
4	black	channel B

cable specifications			
length:	13 ft. (4m)		
wire size:	22 AWG (.34mm <sup>2</sup> )		
cable material:	PVC		
cable color:	gray		

### 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





Ø.53[13,4]

## Fig. 1 - Outline Drawing (as shipped)





— 3.85 [97,8] max. —







.90

[22,8]



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

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

# Fig. 2 - "Up" Cable Exit Direction





#### Fig. 3 - "Down" Cable Exit Direction







The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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