



The SG1 provides absolute linear position up to a 10-ft. stroke range. Constructed with a rugged polycarbonate body, this model is available in an 80-inch or 120-inch stroke range and offers optional IP67 protection for wet or outdoor installations and an M12 connector for easy installation.

The SG1 uses a precision high-cycle plastic hybrid potentiometer and an extremely durable spring-loaded stainless steel measuring cable to provide an accurate reliable position feedback signal over the entire stroke. With its slim design and versatile mounting bracket, the SG1 has been designed to fit into spaces no other measurement device can. For the OEM customer, custom mounting hardware and electrical connections are available.



SG₁

Cable Actuated Sensor Voltage Divider Output Signal

Compact Mid-Range String Pot • Absolute Position

80, 120-inch Stroke Range Options

Polycarbonate Enclosure • IP67

In Stock for Quick Delivery

Specifications

Stroke Range Options 80 inches (2032 mm), 120 inches (3048 mm)

Output Signal voltage divider (potentiometric)

Accuracy .35% FS. .05% FS. Repeatability

Resolution essentially infinite

Measuring Cable .019-inch dia. nylon-coated stainless steel

Maximum Acceleration 10 g

Measuring Cable

Tension

Cycle Life

9 oz. (2,5 N) ±30%

Sensor plastic-hybrid precision potentiometer

Input Resistance 10K ohms, ±10% Power Rating, Watts 2.0 at 70°F Recommended 30 V (AC/DC)

Maximum Input Voltage

Output Signal Change 94% ±4% of V(+in)

Over Full Stroke Range

≥ 250,000

Electrical Connection see ordering information **Enclosure** glass-filled polycarbonate

Environmental IP 50, IP67 (m12 connector & pigtail options)

Operating Temperature -40° to 160° F (-40° to 70° C)

Weight, 80-inch (not

including bracket)

.6 lbs. (272 g)

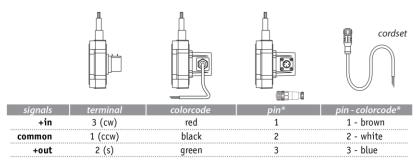
Weight, 120-inch (not

including bracket)

1 lb. (453 g)

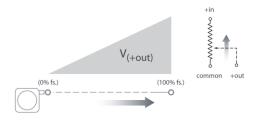
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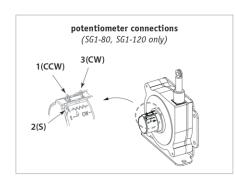
Electrical Connection

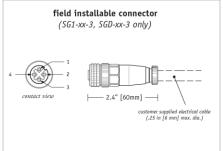


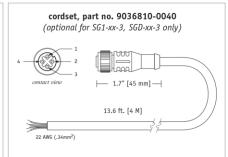
*note: connector pin 4 and the black wire on the **cordset** are NOT used.

Output Signal

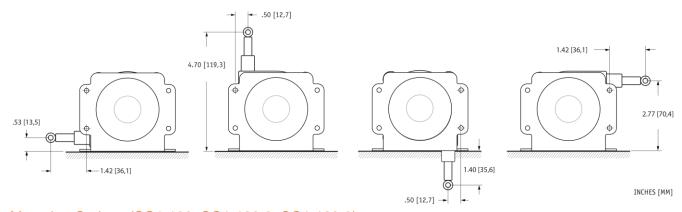




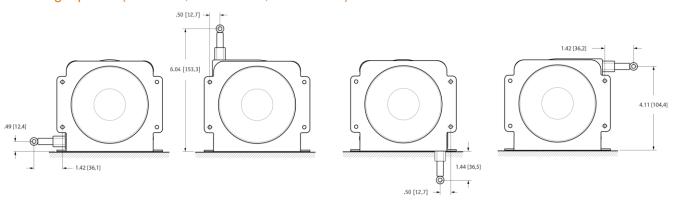




Mounting Options (SG1-80, SG1-80-2, SG1-80-3):



Mounting Options (SG1-120, SG1-120-2, SG1-120-3):



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