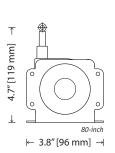
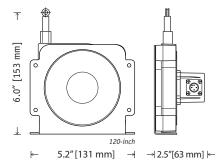
# SG1 Voltage Divider Output Signal

**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	volta	ge divider (potentiometric)
Accuracy		.35% FS.
Repeatability		.05% FS.
Resolution		essentially infinite
Measuring Cable	.019-inch dia. n	ylon-coated stainless steel
Maximum Acceleration		10 g
Measuring Cable Tension		9 oz. (2,5 N) ±30%
Sensor	plastic-hybr	id precision potentiometer
Input Resistance		10K ohms, ±10%
Power Rating, Watts		2.0 at 70°F
Recommended Maximum I	nput Voltage	30 V (AC/DC)
Output Signal Change Over	Full Stroke Range	94% ±4% of V(+in)
Cycle Life		≥ 250,000
Electrical Connection		see ordering information
Enclosure		glass-filled polycarbonate
Environmental	IP 50 , IP67 (m12 c	onnector & pigtail options)
Operating Temperature		0° to 160° F (-17° to 70° C)
Weight, 80-inch (not including bracket)		.6 lbs. (272 g)
Weight, 120-inch (not including bracket)		

<sup>9</sup>5800010

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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 it's slim design and versatile mounting



bracket, the SG1 has been designed to fit into spaces no other measurment device can. For the OEM customer, custom mounting hardware and electrical connections are available.

#### **ORDERING INFORMATION**

Part No

Part No

Part No

SG1-120

120-inch stroke range.

IP50 environments,

solder terminal connection.

mounting bracket included

SG1-120-2

120-inch stroke range,

IP67 environments.

40-inch electrical cable,

mounting bracket included

SG1-120-3 120-inch stroke range,

mounting bracket included

Part No SG1-80 80-inch stroke range, solder terminal connection, IP50 environments. mounting bracket included Part No. SG1-80-2

4-pin M12 connector

13 ft (4 m) 22 AWG (.34mm<sup>2</sup>) 80-inch stroke range, 40-inch electrical cable, IP67 environments.

mounting bracket included

Part No SG1-80-3

80-inch stroke range,

M12 connector. IP67 environments. mounting bracket included

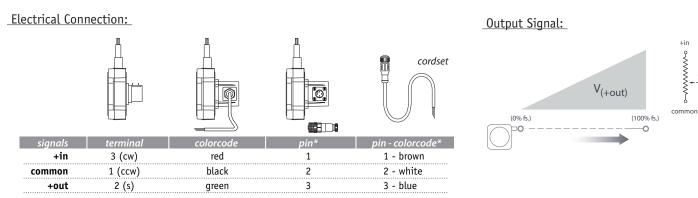
Optional Cordset

#### Part No 9036810-0040

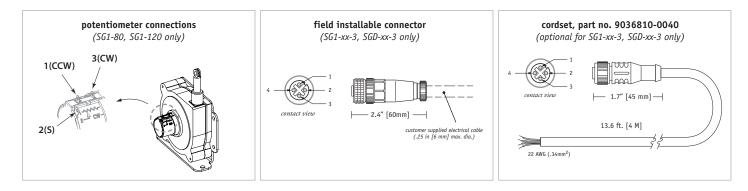
M12 connector.

IP67 environments

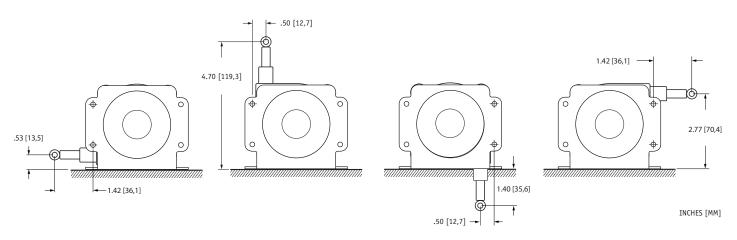
for short-run connections, a convenient optional 13-ft. cordset with a 4-pin M12 connector is available for the SG1-80-3 and SG1-120-3.



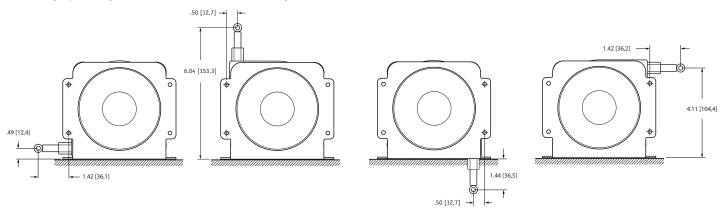
\*note: connector pin 4 and the black wire on the **cordset** are NOT used.



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

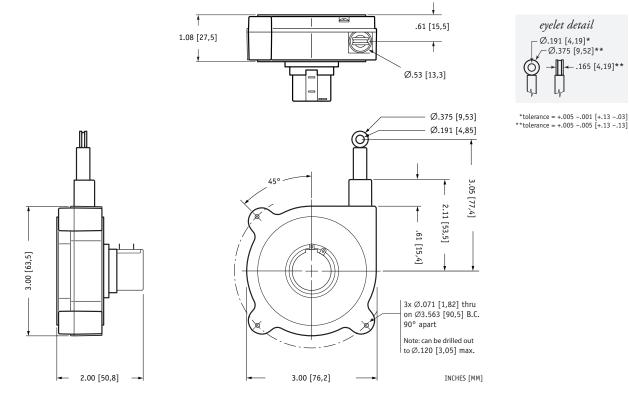


Mounting Options (SG1-120, SG1-120-2, SG1-120-3):

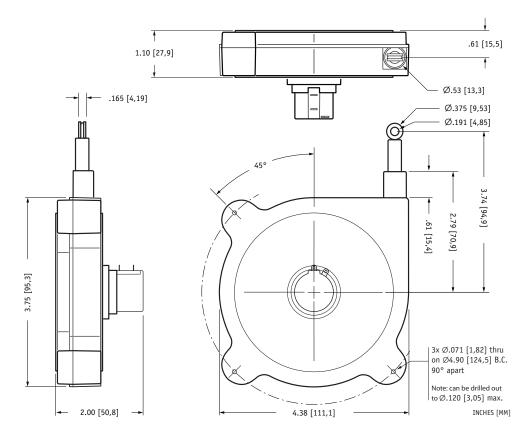


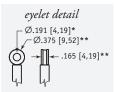
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### SG1-80 w/o Mounting Bracket:



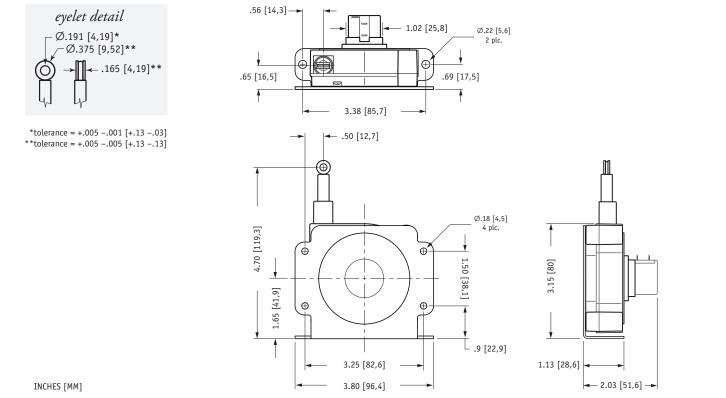
# SG1-120 w/o Mounting Bracket:



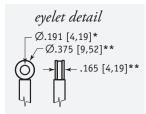


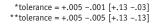
\*tolerance = +.005 -.001 [+.13 -.03] \*\*tolerance = +.005 -.005 [+.13 -.13]

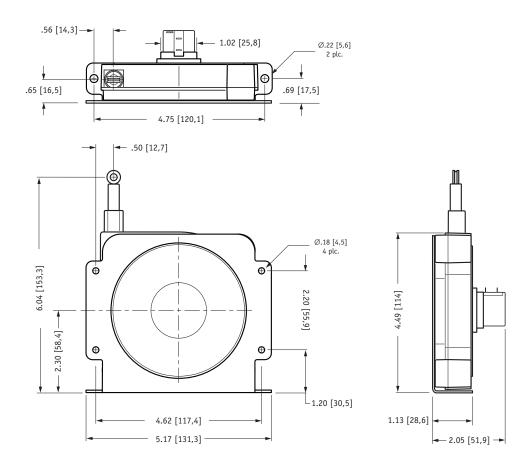
# SG1-80 w/ Mounting Bracket:



# SG1-120 w/ Mounting Bracket:

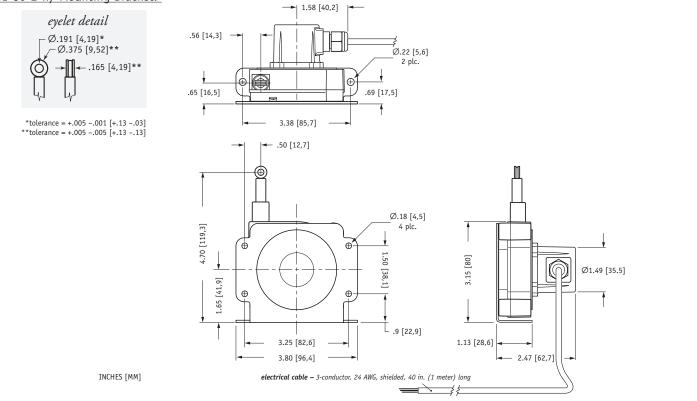




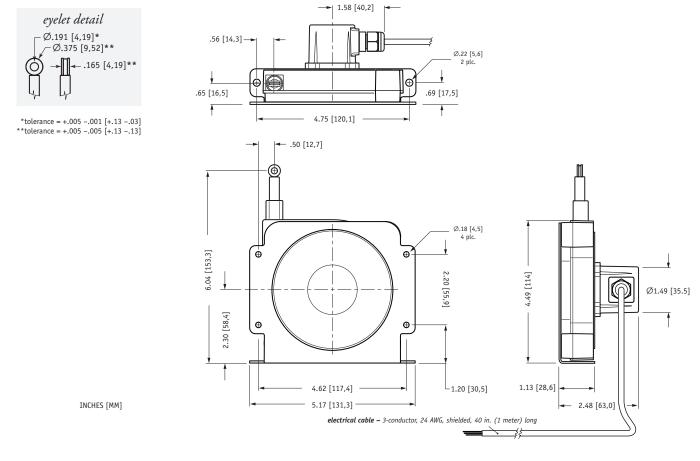




# SG1-80-2 w/ Mounting Bracket:

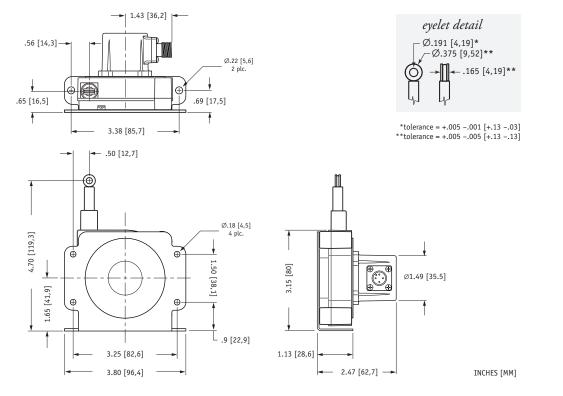


#### SG1-120-2 w/ Mounting Bracket:

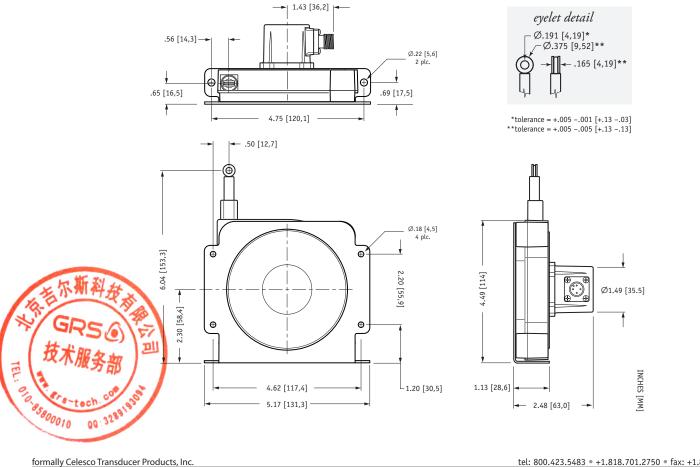


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### SG1-80-3 w/ Mounting Bracket:



# SG1-120-3 w/ Mounting Bracket:



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