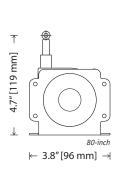
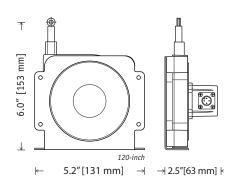
SG₁

Low Cost, Compact Mid-Range String Pot

Voltage Divider Output: 10K ohm potentiometer Absolute Linear Position • Polycarbonate Enclosure 80, 120-inch Stroke Range Options • IP50/IP67

In Stock for Quick Delivery





SPECIFICATIONS

Stroke Range Options	80 inches (2032 mr	m), 120 inches (3048 mm)
Output Signal	voltage	divider (potentiometric)
Accuracy		.35% FS.
Repeatability		.05% FS.
Resolution		essentially infinite
Measuring Cable	.019-inch dia. nylo	on-coated stainless steel
Maximum Acceleration		10 g
Measuring Cable Tension		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 Maximum Input Voltage		30 V (AC/DC)
Output Signal Change Over Full Stroke Range		94% ±4% of V(+in)
Cycle Life		≥ 250,000
Electrical Connection so		see ordering information
Enclosure	g	lass-filled polycarbonate
Environmental	IP 50 , IP67 (m12 connector & pigtail options)	
Operating Temperature		0° to 160° F (-18° to 70° C)
Weight, 80-inch (not including bracket)		.6 lbs. (272 g)
Weight, 120-inch (not including bracket)		1 lb. (453 g)



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.

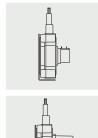


The SG1 uses a precision high-cycle plastic hybrid potentiometer and an extremely durable spring-loaded stainless steel measuring cable to provide an accurate reliable position feedback signal over the entire stroke.

With it's slim design and versatile mounting bracket, the SG1 has been

designed to fit into spaces no other measurment device can. Additionally, for the OEM customer, custom mounting hardware and electrical connections are available.

ORDERING INFORMATION



SG1-80

80-inch stroke range, solder terminal connection, IP50 environments, mounting bracket included Part No. **SG1-120**

120-inch stroke range, solder terminal connection, IP50 environments, mounting bracket included



SG1-80-2

80-inch stroke range, 40-inch electrical cable, IP67 environments, mounting bracket included Part No. **SG1-120-2**

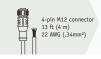
120-inch stroke range, 40-inch electrical cable, IP67 environments, mounting bracket included



SG1-80-3

80-inch stroke range, M12 connector, IP67 environments, mounting bracket included SG1-120-3

120-inch stroke range, M12 connector, IP67 environments, mounting bracket included



Optional Cordset

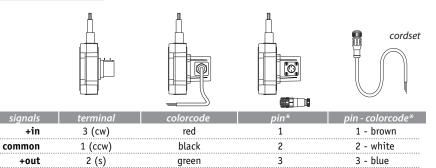
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for short-run connections, a convenient optional 13-ft. cordset with a 4-pin M12 connector is available for the SG1-80-3 and SG1-120-3.

Celesco Transducer Products, Inc. 20630 Plummer Street • Chatsworth, CA 91311 tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

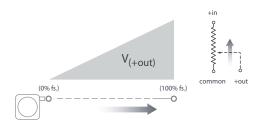


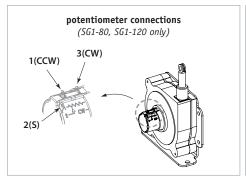
Electrical Connection:

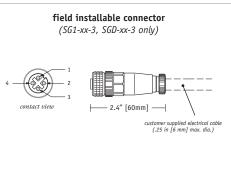


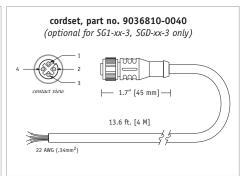
*note: connector pin 4 and the black wire on the cordset are NOT used.

Output Signal:

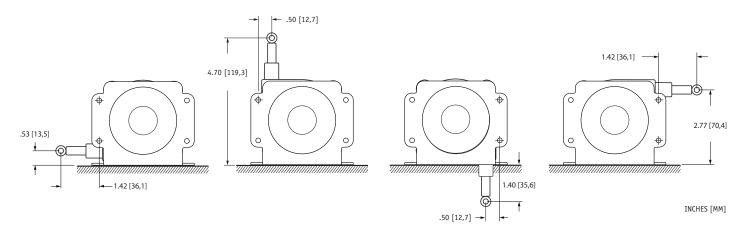




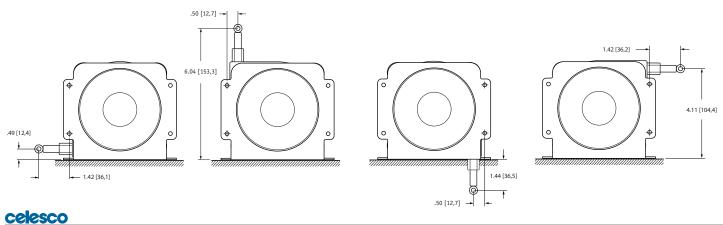




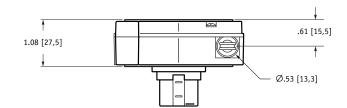
Mounting Options (SG1-80, SG1-80-2, SG1-80-3):

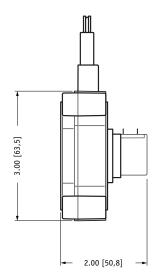


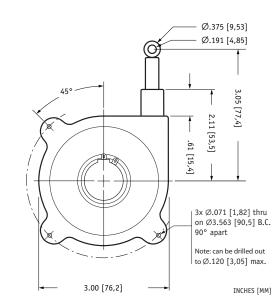
Mounting Options (SG1-120, SG1-120-2, SG1-120-3):



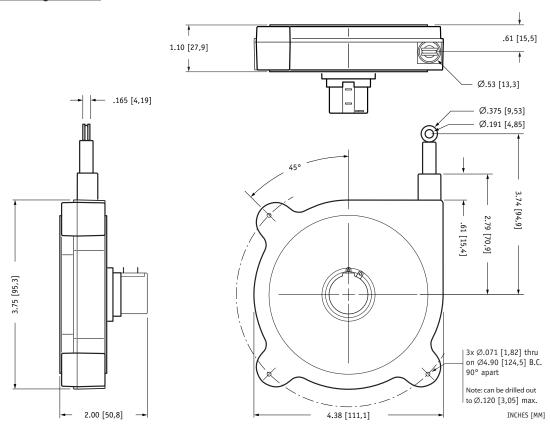
SG1-80 w/o Mounting Bracket:



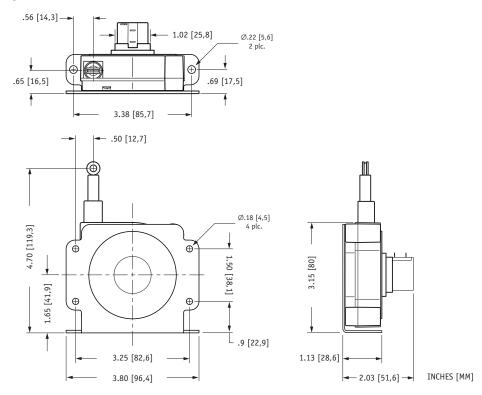




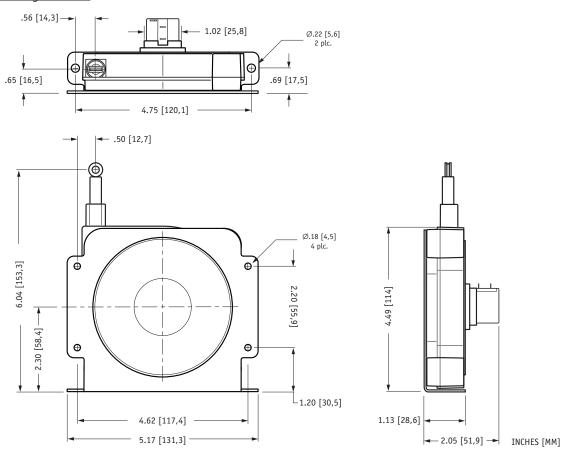
SG1-120 w/o Mounting Bracket:



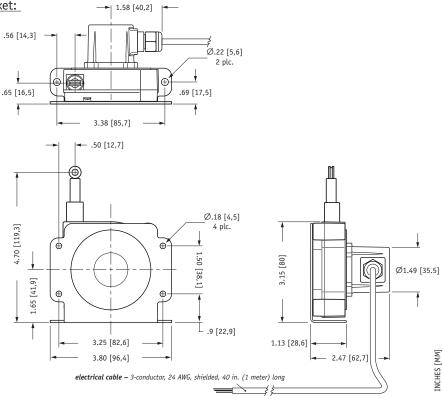
SG1-80 w/ Mounting Bracket:



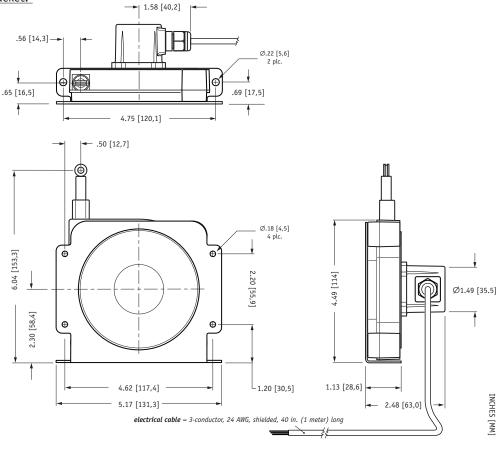
SG1-120 w/ Mounting Bracket:



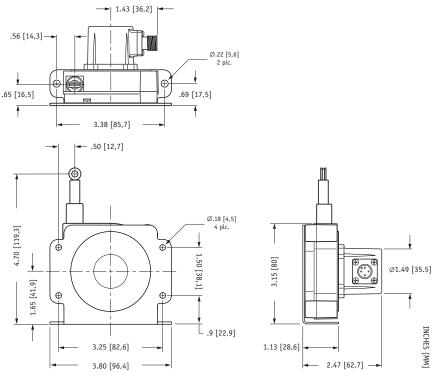
SG1-80-2 w/ Mounting Bracket:



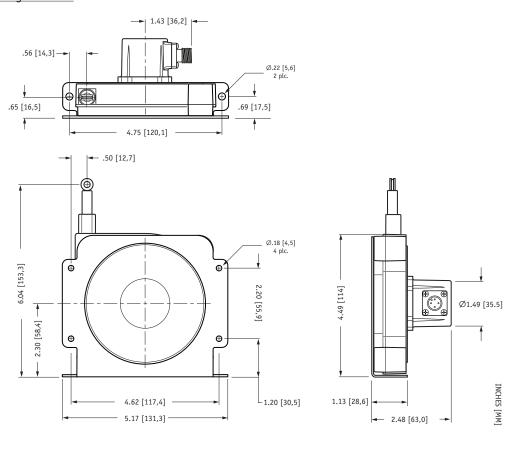
SG1-120-2 w/ Mounting Bracket:



SG1-80-3 w/ Mounting Bracket:



SG1-120-3 w/ Mounting Bracket:



Version: 2.0 last updated: May 22, 2012