

SE1

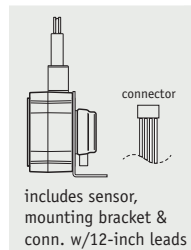
Compact String Pot • Incremental Encoder

Linear Position to 50 inches (1270 mm)

Low-Cost, Long Life • Rugged Polycarbonate Enclosure

Free-Release Tolerant Measuring Cable

In Stock for Quick Delivery!



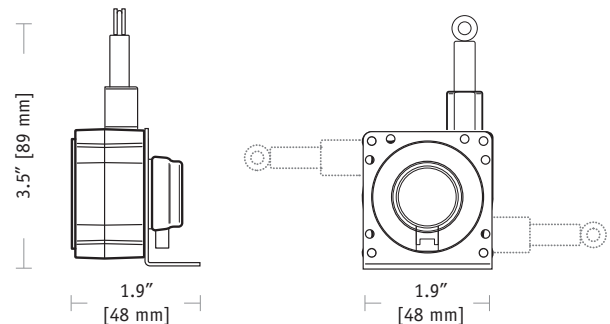
Part No.	full stroke range	accuracy	cycle life
SE1-25	25 in (635 mm)	0.050 in.	1.1M cycles
SE1-50	50 in (1270 mm)	0.050 in.	1.1M cycles

COMPLETE SPECIFICATIONS

Full Stroke Range Options	0-25, 0-50 inches
Output Signal	incremental encoder (quadrature)
Accuracy	±0.050 inches
Repeatability	± 0.025 inches
Resolution	56.40 ±.32 pulses per inch
Measuring Cable	0.019-in. dia. nylon-coated stainless steel
Measuring Cable Tension	7 oz. (1.9 N) ±25%
Maximum Cable Acceleration	15 g
Enclosure Material	polycarbonate
Sensor	optical encoder
Cycle Life	1.1 million cycles
Enclosure	IP 50
Operating Temperature	14° to 185°F (-10° to 85°C)
Vibration	up to 10 g to 2000 Hz max.
Weight	5 oz. (w/o mounting bracket) max.

ELECTRICAL

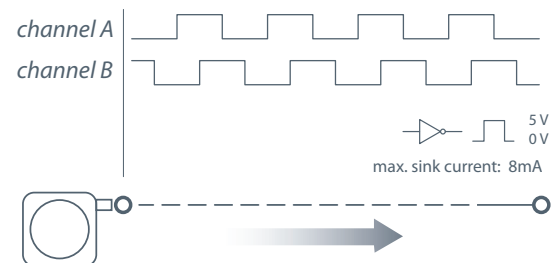
Input Voltage	5 VDC
Input Current	50 mA max.
Output Driver	TTL compatible
Sink Current	8 mA max.
Electrical Connection	mating plug with 12-inch leads, included
Electrical Connector	Molex 53048-0410
Mating Plug	Molex 51021-0400 (shell), 50079-8100 (pins)



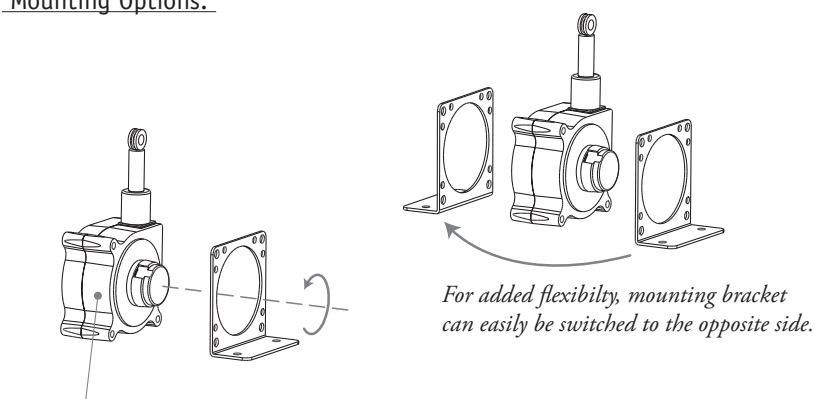
The Celesco SE1 is the digital encoder version of our compact String Pot series. The SE1 is an economical and durable device that utilizes a flexible cable, a spring-loaded spool and an incremental optical encoder to detect and measure linear position.

The SE1 is designed for tight spaces, high-cycle applications and generously allows cable misalignment. With a handy mounting bracket included, and 2 basic measurement ranges, the SE1 is a perfect solution for many applications, from light industrial to OEM.

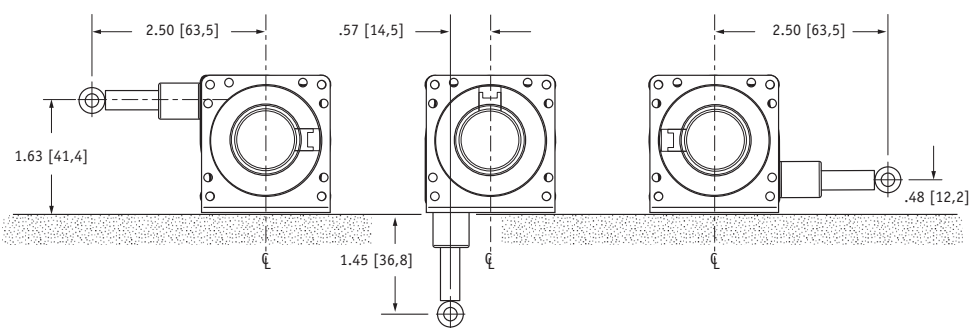
Output Signal:



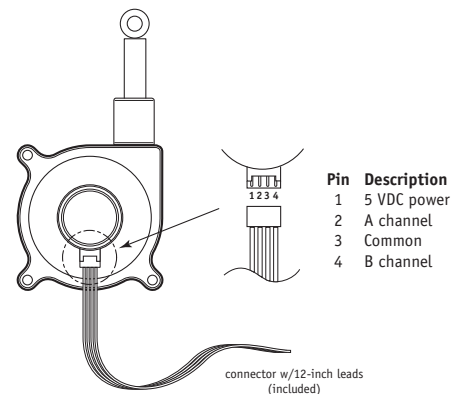
Mounting Options:



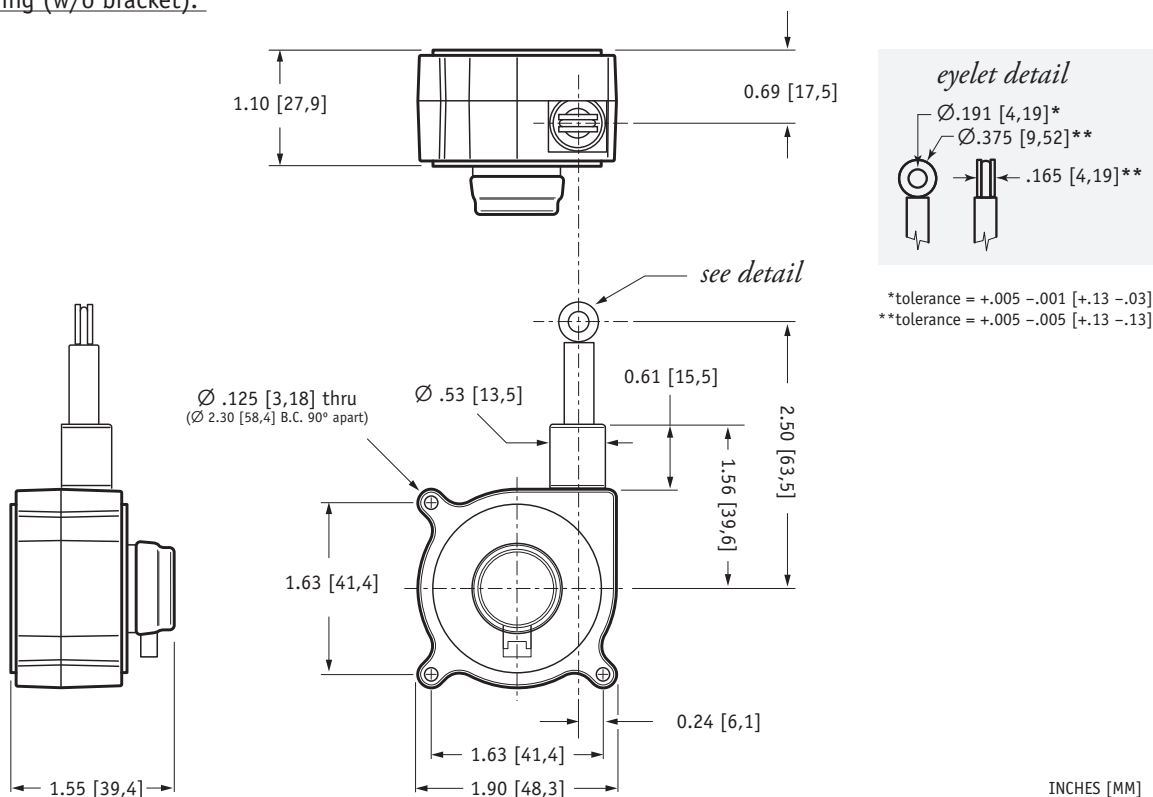
To change measuring cable direction simply remove the 3 bracket attaching screws and rotate sensor body to desired direction.



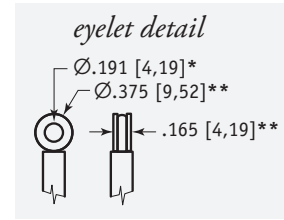
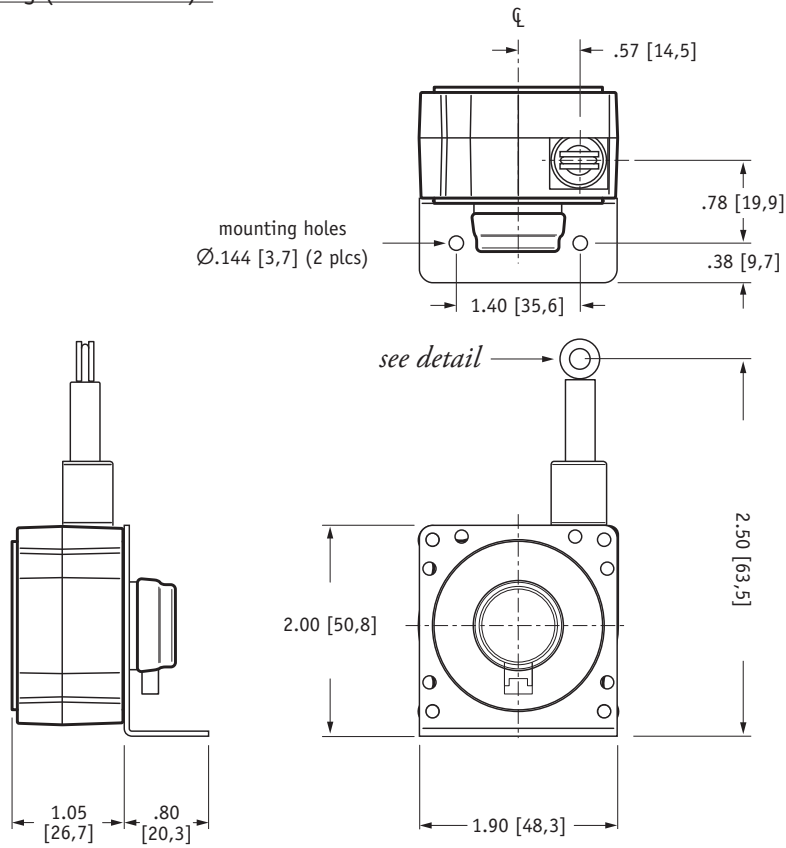
Electrical Connection:



Outline Drawing (w/o bracket):



Outline Drawing (with bracket):



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

INCHES [MM]

version: 5.0 last updated: February 15, 2013