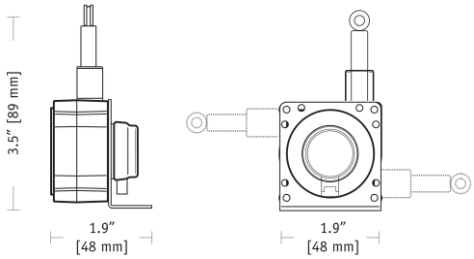


SE1

Compact String Pot • Incremental

Linear Position to 50 inches (1270 mm)

Low-Cost, Long Life • Rugged Polycarbonate Enclosure

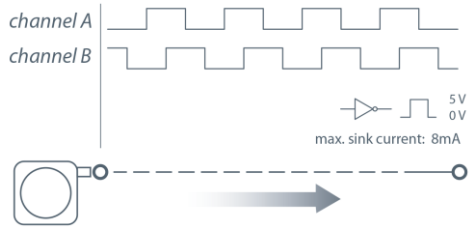
Free-Release Tolerant Measuring Cable

In Stock for Quick Delivery!

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



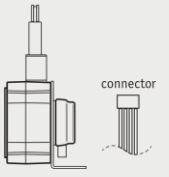
Specifications

Available Stroke Ranges	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)

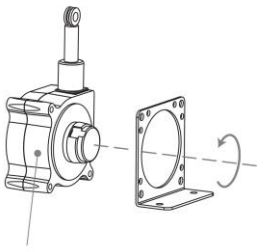
Ordering Information



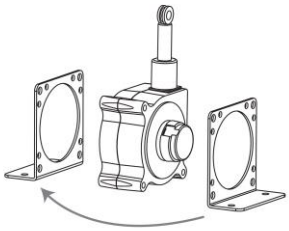
includes sensor, mounting bracket & conn. w/12-inch leads

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

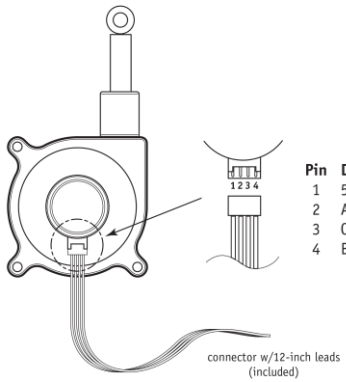
Mounting Options



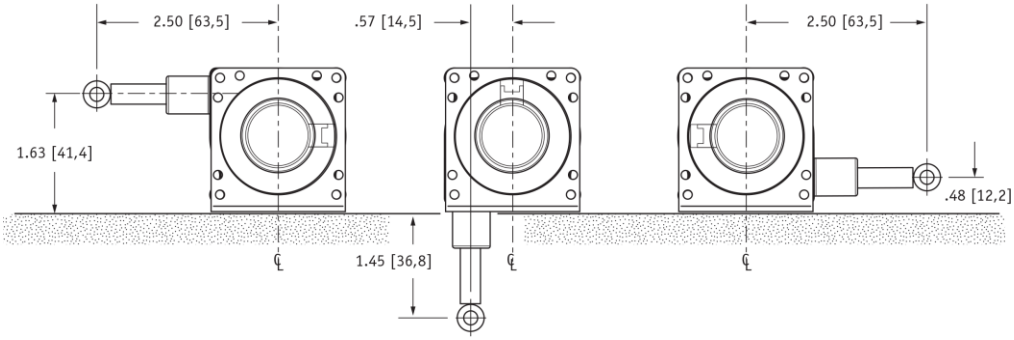
To change measuring cable direction simply remove the 3 bracket attaching screws and rotate sensor body to desired direction.



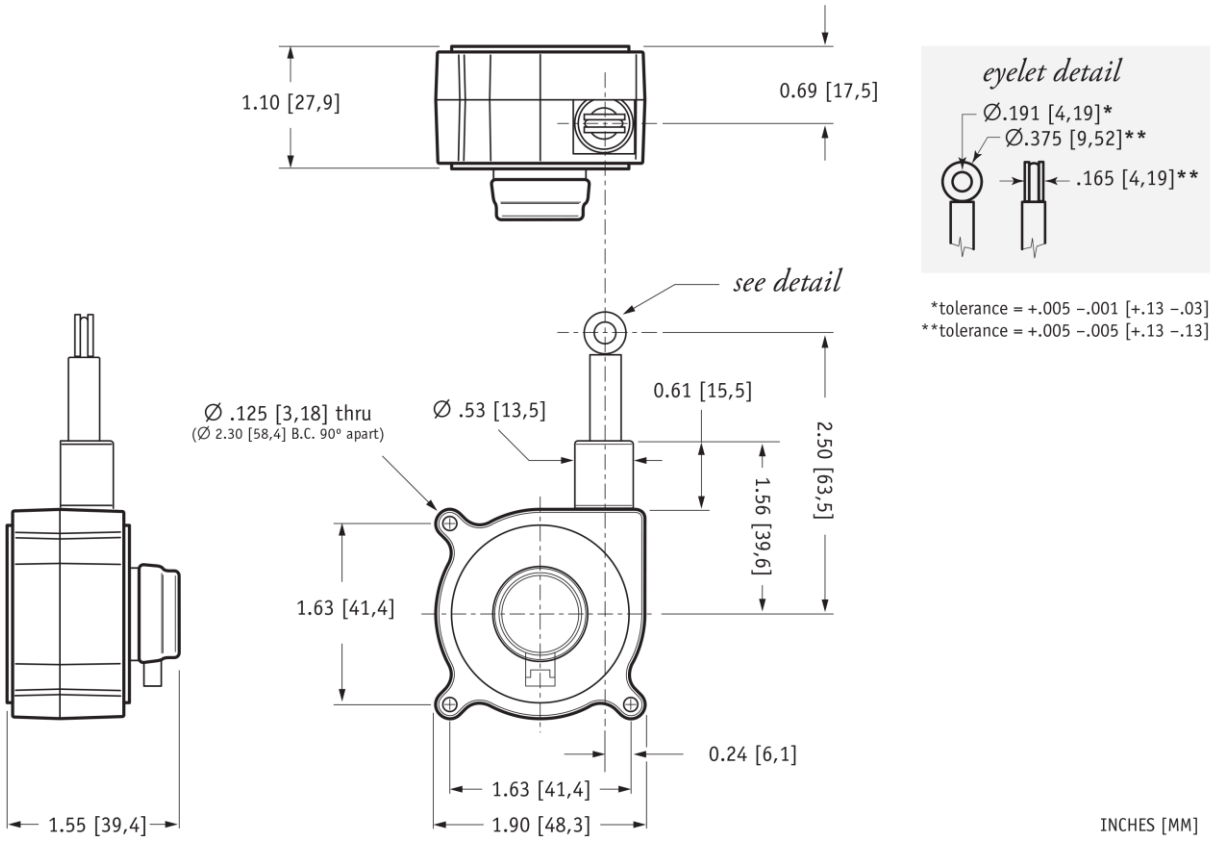
For added flexibilty, mounting bracket can easily be switched to the opposite side.



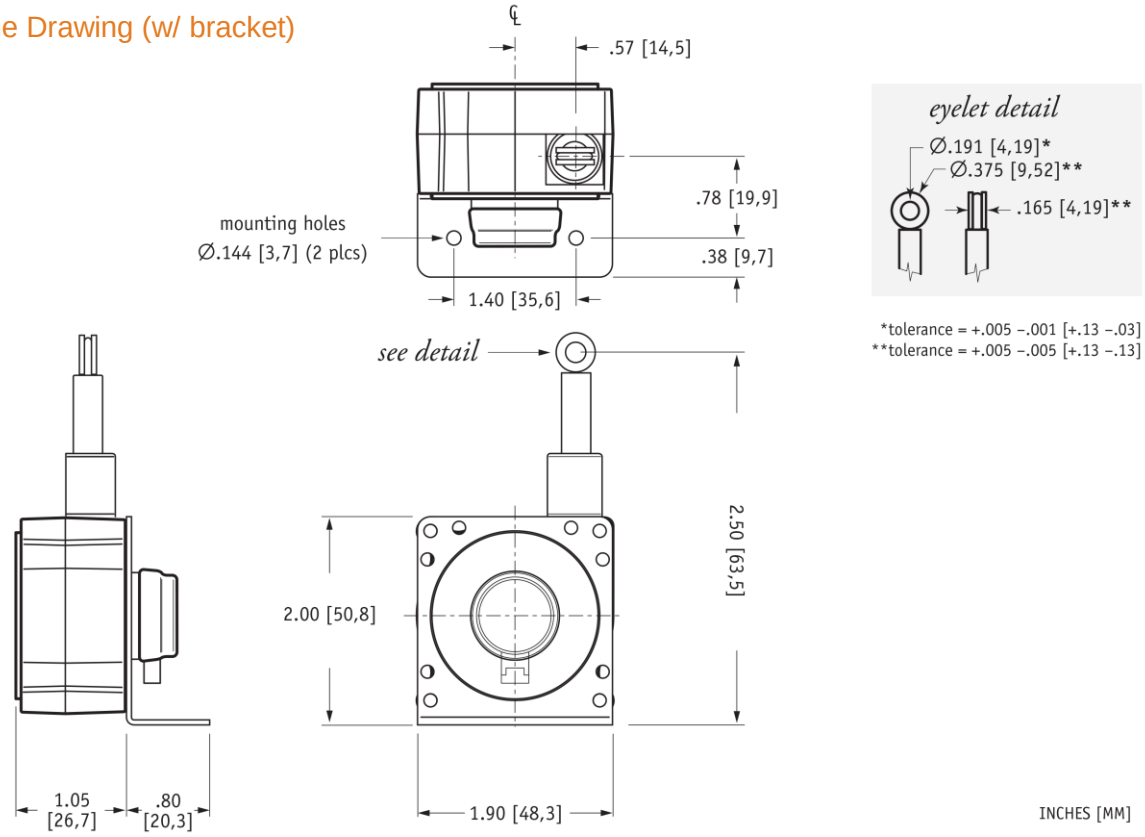
Pin	Description
1	5 VDC power
2	A channel
3	Common
4	B channel



Outline Drawing (w/o bracket)



Outline Drawing (w/ bracket)



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SE1 12/01/2015

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