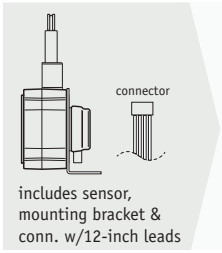
SE1

Compact String Pot • Incremental Encoder

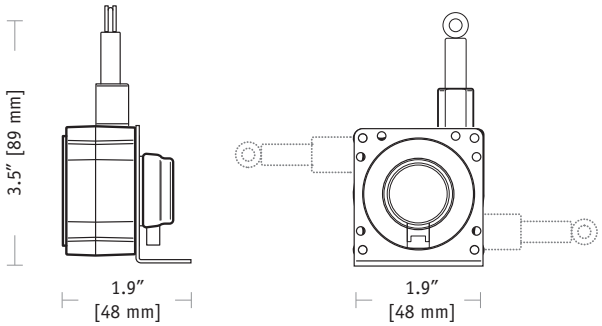
Linear Position to 50 inches (1270 mm)
Low-Cost, Long Life • Rugged Polycarbonate Enclosure
Free-Release Tolerant Measuring Cable
In Stock for Quick Delivery!



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





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.

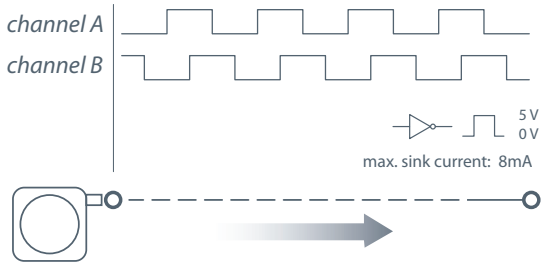
ELECTRICAL

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.

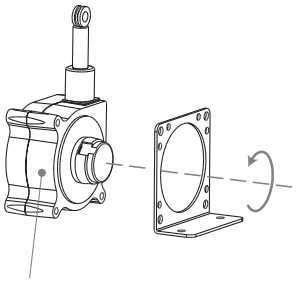
Output Signal:



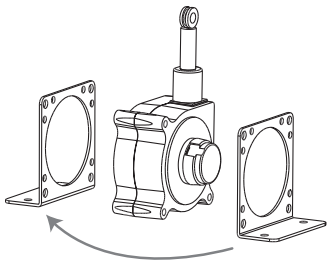
20630 Plummer Street • Chatsworth, CA 91311
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

celesco

Mounting Options:

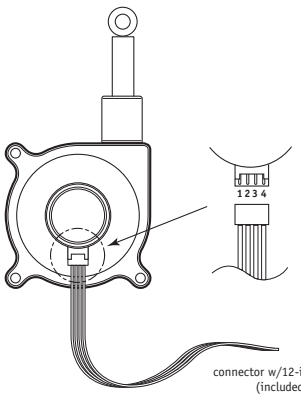


To change measuring cable direction simply remove the 3 bracket attaching screws and rotate sensor body to desired direction.

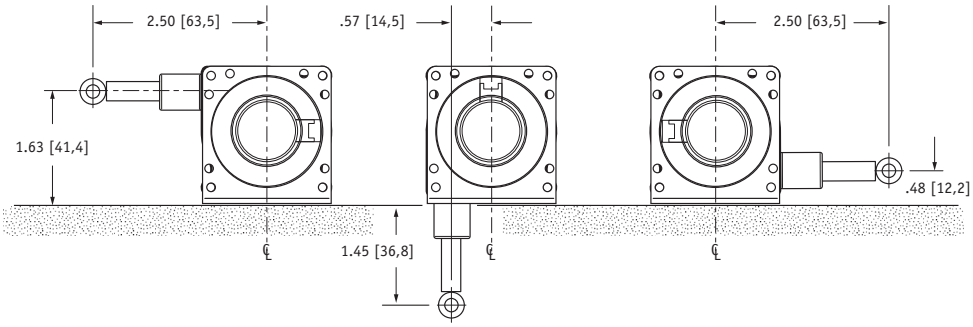


For added flexibilty, mounting bracket can easily be switched to the opposite side.

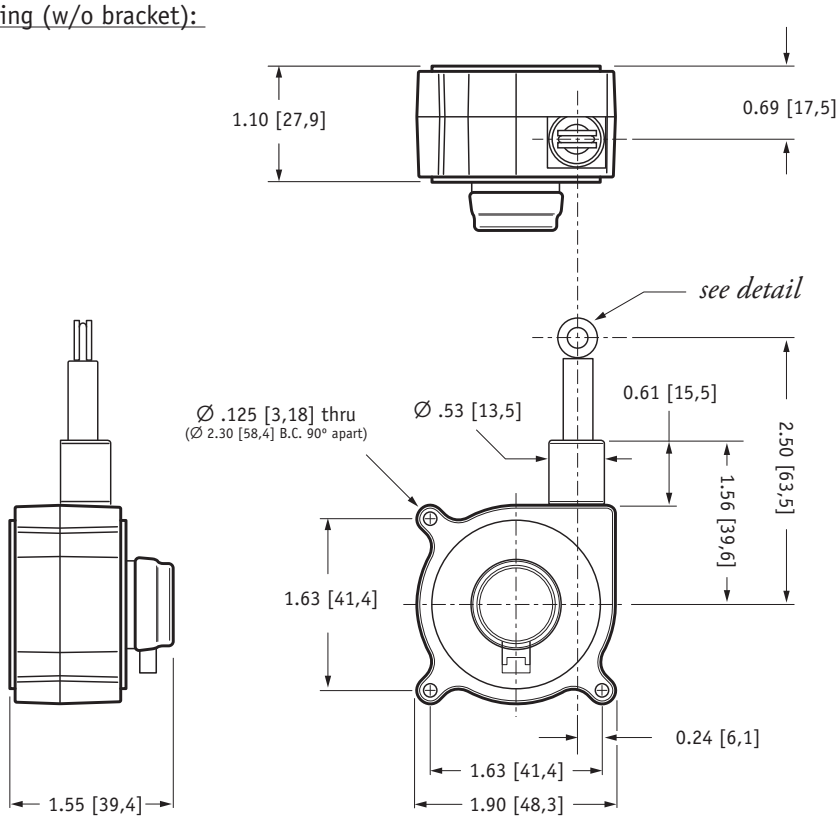
Electrical Connection:

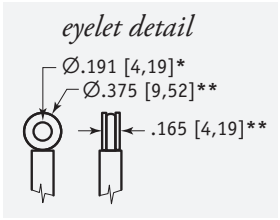


Pin	Description
1	5 VDC power
2	A channel
3	Common
4	B channel



Outline Drawing (w/o bracket):





*tolerance = +.005 –.001 [+.13 –.03]
**tolerance = +.005 –.005 [+.13 –.13]

INCHES [MM]

Outline Drawing (with bracket):

