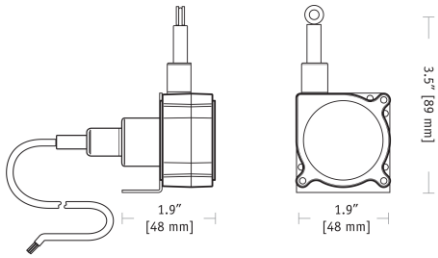


The SP3 from Celesco is a compact, economical stringpot that provides a user selectable 4-20 mA or 0-10 Vdc output signal. Simply install this sensor using the handy mounting bracket and connect the appropriate wires for the desired output.

The SP3 is constructed with a rugged, water resistant polycarbonate body that has been compactly designed for tight spaces and generous measuring cable misalignment. With 4 different ranges, the SP3 is a perfect solution for many applications from light industrial to OEM. Just like all of our other SP and SE models, the SP3 is in stock ready to ship.

SP3

Compact String Pot • 4..20mA / 0..10Vdc

Linear Position to 50 inches (1270 mm)

User Selectable Ouput: 4–20 mA or 0–10Vdc

40-in. Electrical Cable • Free-Release Tolerant

In Stock for Quick Delivery!

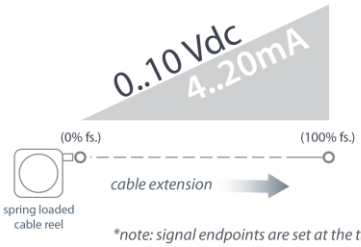
Specifications

Full Stroke Range Options	0-4.75, 0-12.5, 0-25, 0-50 inches
User Selectable Output Signal	4...20 mA (2-wire) / 0...10 Vdc
Input Voltage, 4...20 mA option	8-40 VDC
Input Voltage, 0...10 Vdc option	12-32 VDC
Accuracy	±0.25 to ±1.00% (see part no. above)
Repeatability	± 0.05% full stroke
Resolution	essentially infinite
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	plastic-hybrid precision potentiometer
Weight	5 oz. (w/o mounting bracket) max.

Environmental

Enclosure	IP 50
Operating Temperature	0° to 160°F (-18° to 71°C)
Vibration	up to 10 g to 2000 Hz maximum

Output Signal

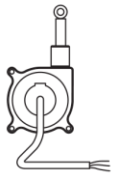


signal endpoint tolerances

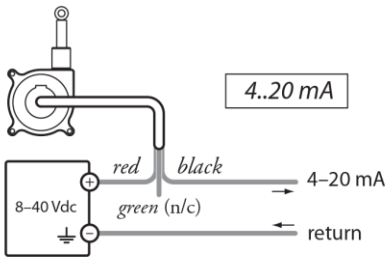
*Output Signal**	*0% fs.*	*100% fs.*
4..20 mA	*4 – 4.25 mA*	*19.2 – 20 mA*
0..10 Vdc	*0 – .2 Vdc*	*9.5 – 10 Vdc*

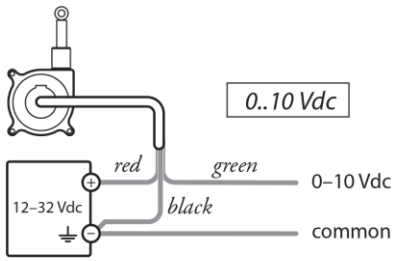
**note: signal endpoints are set at the time of manufacture and cannot be adjusted*

Electrical Connection

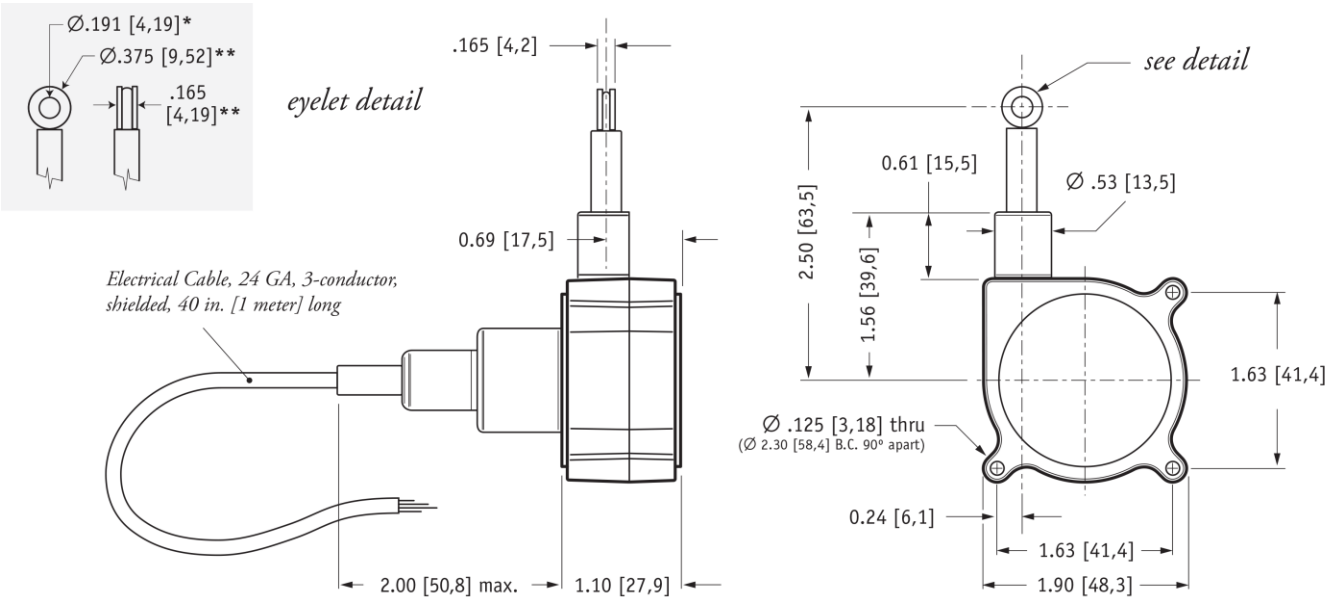


	0...10 Vdc	4...20 mA
(red)	12...32 Vdc	8...40 Vdc
(grn)	0...10 Vdc	n/c
(blk)	common	4...20 mA





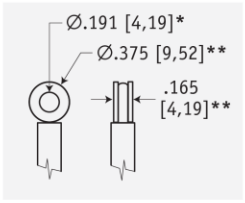
Outline Drawing (w/o bracket)



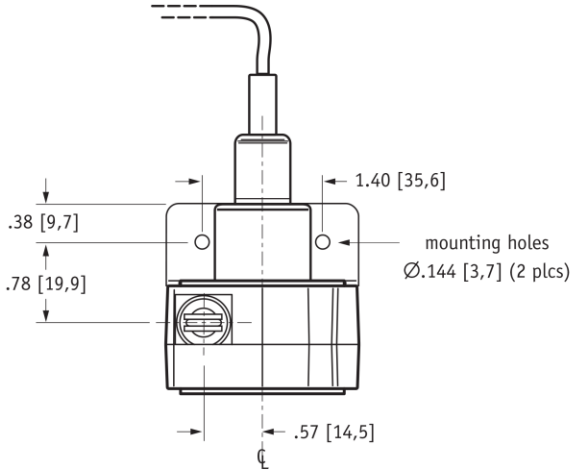
DIMENSIONS ARE IN INCHES [MM]
tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

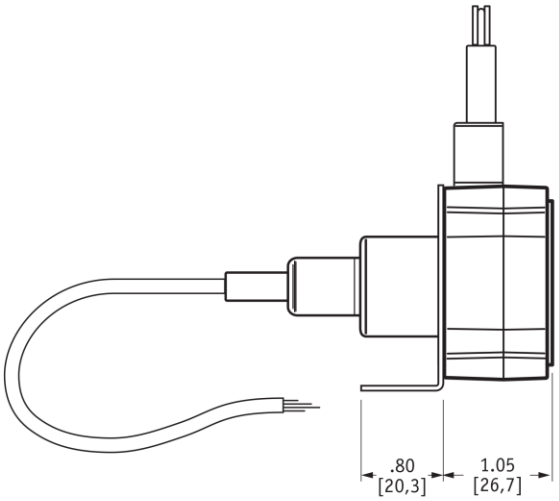
* tolerance = +.005 –.001 [+0,1 –0,0]
** tolerance = +.005 –.005 [+0,1 –0,1]

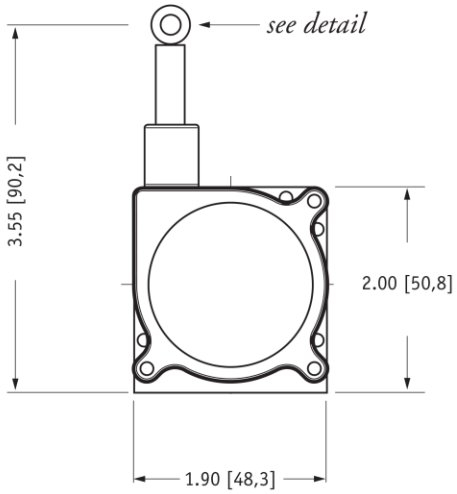
Outline Drawing (w/ bracket)



eyelet detail

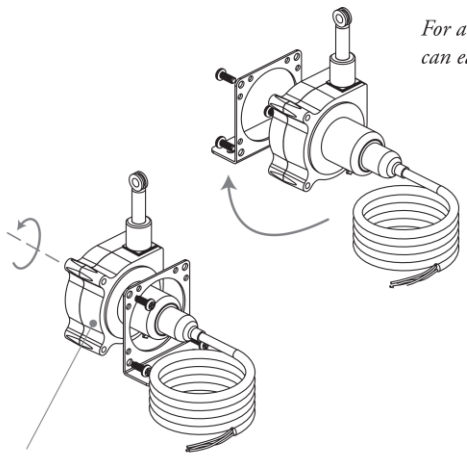






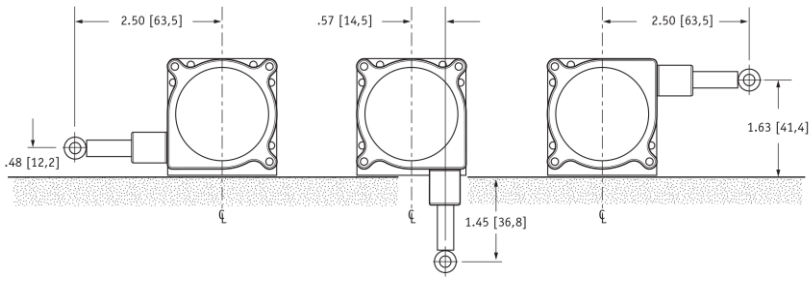
DIMENSIONS ARE IN INCHES [MM]
tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

* tolerance = +.005 –.001 [+0,1 –0,0]
** tolerance = +.005 –.005 [+0,1 –0,1]

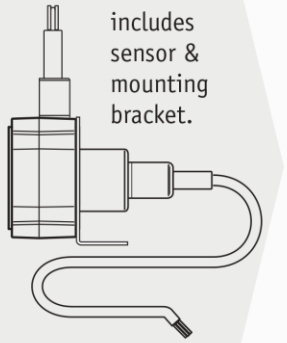


For added flexibilty, mounting bracket can easily be switched to the opposite side.

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



Ordering Information



Part No.	full stroke range	accuracy (% of f.s.)	cycle life
SP3-4	4.75 in (120 mm)	1.00%	2.5M cycles
SP3-12	12.5 in (317 mm)	0.25%	500K cycles
SP3-25	25 in (635 mm)	0.25%	500K cycles
SP3-50	50 in (1270 mm)	0.25%	250K cycles

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity company
20630 Plummer Street
Chatsworth, CA 91311
Tel +1 800 423 5483
Tel +1 818 701 2750
Fax +1 818 701 2799
info@celesco.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

SP3 12/01/2015

DEALER / REVENDEDOR

Brazil and South America / Brasil e América do Sul

Metrolog Controles de Medição

Address / Endereço:

Rua Sete de Setembro, 2656
13560-181 - São Carlos - SP
Brazil / Brasil

Phone / Telefone:

+55 (16) 3371-0112
+55 (16) 3372-7800

Internet:

www.metrolog.net
metrolog@metrolog.net

www.metrolog.net