



## Description

- 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!



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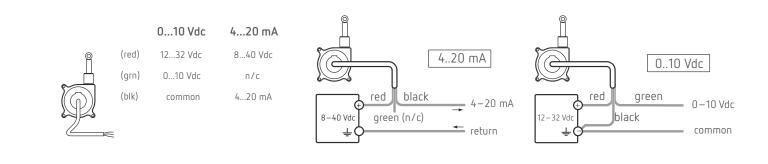
SENSORS & CONTROLS

The SP3 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 ouput. The SP3 is constructed with a rugged, water resistant poly- carbonate 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.

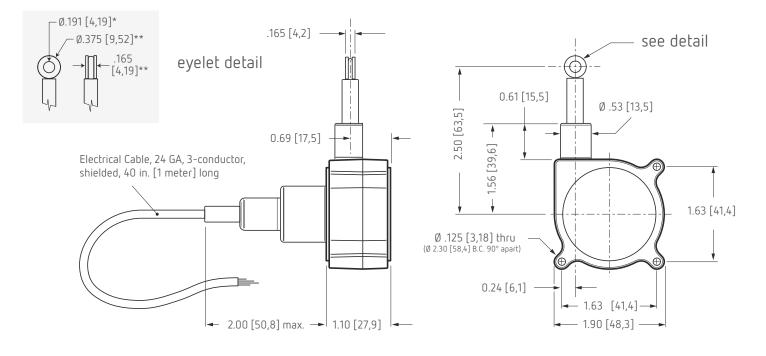
## COMPLETE SPECIFICATIONS Ordering information Full Stroke Range Options 0-4.75, 0-12.5, 0-25, 0-50 inches full stroke accuracy (% of f.s.) Part No. User Selectable Output Signal 4...20 mA (2-wire) / 0...10 Vdc cvcle life range 4.75 in (120 mm) Input Voltage, 4...20 mA option 8-40 VDC includes 100% 2.5M cycles SP3-4 sensor & 12-32 VDC Input Voltage, 0...10 Vdc option mounting 12.5 in (317 mm) bracket. SP3-12 0.25% 500K cycles Accuracy $\pm 0.25$ to $\pm 1.00\%$ (see part no. above) ± 0.05% full stroke Repeatability 25 in (635 mm) SP3-25 0.25% 500K cycles Resolution essentially infinite 50 in (1270 mm) 0.25% SP3-50 250K cycles 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 3.5" [89 mm] Sensor plastic-hybrid precision potentiometer **Electrical Connection** 40-inch long, 24 guage shielded electical cable Weight 5 oz. (w/o mounting bracket) max. **ENVIRONMENTAL** 1.9" [48 1.9" [48 mml mm] IP 50 Enclosure Operating Temperature 0° to 160°F (-18° to 71°C) 0...10 Vdc\* version 20130226 - Rev 6 Output signal Vibration up to 10 g to 2000 Hz maximum 4..20 mA\* \*note: output signal endpoint tolerance (0% fs.) (100% fs.) 01.2016 ∩% fs 100% fs. -0 Output Signal 4...20 mA 4 – 4.25 mA 19.2 – 20 mA 0...10 Vdc 0 – .2 Vdc 9.5 – 10 Vdc



## Electrical Connection



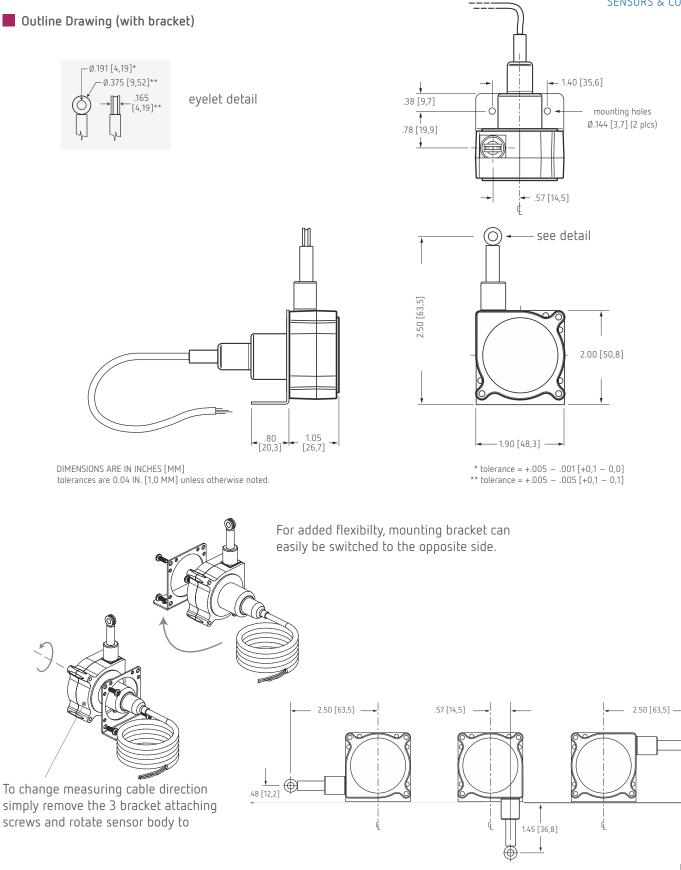
## Outline Drawing (w/o bracket)



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]





The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

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