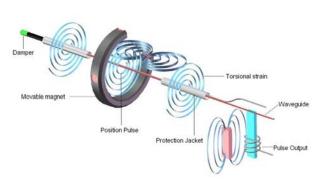
SMC - Linear Position Sensor



SMC series linear position sensor is based on magnetostrictive principle and provides highly accurate absolute position measurement of displacement up to 120 inches (3 meters). Operation is based on accurately measuring the distance from a predetermined point to a magnetic field produced by a movable permanent magnet ring.

SMC is powered by 24VDC and integrated signal processing translates time-based position measurement directly into a market standard analog output signal. By providing an absolute output, no data is lost when power is interrupted. Α user selectable 0-10VDC voltage (either low or high frequency response) or a 4-20mA current (3-wire) output is available in either forward or reverse slope signals.



The contactless principle - an external movable magnet marks the position - eliminates the wear, noise and erroneous signal problems and guarantees the best durability without any recalibration.

The magnetostrictive linear displacement transducer operates in hostile industrial environments. The sensor probe is pressure-sealed to operate in hydraulic fluids up to 350Bar. Integral electronics are protected against contamination from dust.

Application

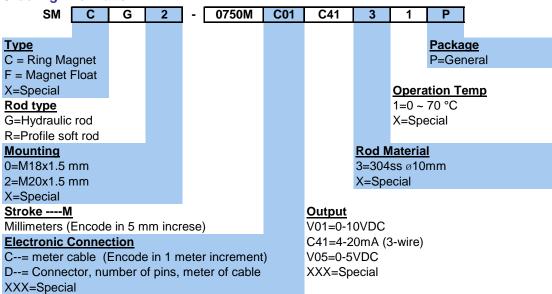
- Hydraulic cylinder position
- Valve position sensing
- Printing and packing industry
- Plastic and rubber part manufacturing
- Tools and metalworking
- Port machinery

BENEFITS

- Large stroke range
- High accuracy, resolution and stability
- Fast respond time,
- Linear measurement, absolute output
- EMI/RFI
- Up to 350Bar pressurize
- Frictionless operation



Ordering Information



General Specification

Stroke 80mm~3000mm Input/output

Mechanical zone Null: 50.8mm Input Power: 15-30VDC

Dead: 63.5mm Consumption: <50mA

(consult for special) Output: 0-10VDC, 0-5VDC, 4-20mA

Accuracy: Operating conditions:

Non-Linearity: $<\pm 0.05\%$ FS Operating temperature: -40° C... $+75^{\circ}$ C Resolution: $<\pm 0.002\%$ FS Mounting: M18x1.5, M20X1.5 or custom

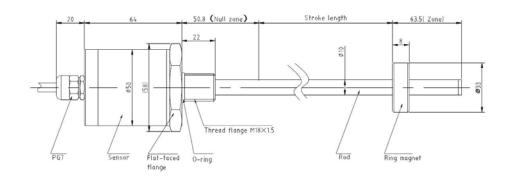
Repeatability: <±0.002% FS

Material: Electrical connection:

Sensor header: 304 ss Connection type: Cable or connector Rod: Isolation: 500V (DC ground to machine

Pressure rating: 350 bar ground)

Dimension



Email: spsensors@gmail.com, http://www.spsensors.com Rev: 11A

