

Hall-principle Precision displacement sensor MSD-2-10

Features:

1. Hall principle, high sensitivity, good linearity, fast frequency response, high reliability.
2. High-precision, long-distance, low price.
3. Non-contact, no friction, no wear, long life.
4. Suitable for oil, cutting debris, vibration and other harsh environments.
5. Without periodic calibration and maintenance.
6. A variety of output options are available to facilitate communication with the computer.



Application:

Mainly used in machinery manufacturing, including machine tool industry, in particular, processing centers, large, and very large machine tools, rotary tables, etc.; in addition to construction machinery; aluminum processing machinery; woodworking machinery; stone machinery; printing machinery; packaging machinery; medical machinery; pharmaceutical machinery; food and beverage processing machinery; electronic equipment; automobiles, aircraft, ships, steel, metallurgy, railway, elevator, linear motor, military, robots, textile machinery, solar energy, wind power, environmental protection machinery, irrigation machinery, chemicals machinery and other industries.

Operate environment:

It can be used in the temperature of $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$ environment. Non-contact measurement, no wear and tear damage, long life cycle. With against dust, water, oil, grease, dust, anti-vibration, and anti-impact and other characteristics. It can work under extreme industrial conditions.

Main specification:

1. Measurement accuracy: 1 μ m, 0.5 μ m.
2. Measuring length: 100m in seamless.
3. Linear speed: 650mm / s
4. Working temperature: -40 $^{\circ}$ C ~ +120 $^{\circ}$ C.
5. Metric / imperial setting.
6. The absolute position / relative position of the measurement setting.
7. Supply voltage: DC +5 V
8. Temperature drift: -0.12% / k
9. Repeatability: \pm 0.488 μ m
10. Magnetic flux stability: 10 years
11. Protection class: IP67
12. Interface: SPI, UART, PWM