

工作原理

拉线(绳)拉动时, 会输出固定的脉冲, 对于光电编码器输出脉冲和编码器光栅的刻线数相同, 需要提高分辨率时, 可用A.B两路信号进行倍频或者更换高分辨率编码器。

其位移起点可任意设定, 并可实现多圈的无限累加和测量(取决于最大行程), 还可以把每转发出的一个脉冲的Z信号, 作为参考机械零件。

配绝对值编码器的拉线位移传感器在拉线时(周旋转), 有与其他位移位置一一对应的代码(格雷码, 二进制, BCD码)输出, 从代码的大小的变更, 即可判断正反向和转轴所处的位置, 无需判断电路。

产品特点

安装方便, 设有备用安装基准面, 安装空间小, 安装难度低; 无需导向, 机械公差不会影响测量精度。

应用范围

应用于自动控制, 自动检测自动化领域中, 如数控机床, 涂装设备, 伺服电机, 轧钢机械, 纺织机械, 印刷机械, 轻工机械, 汽车工业, 材料试验机, 及办公室仪器仪表等行业; 可外接PLC 二次仪表, 单片机等等采集系统。

输出信号和接口模式

模拟量型0-20mA, 4-20mA, 0-5V, 0-10V, 0-5K Ω , 0-10K Ω , 同样属于绝对位置采集。输出接口型式, 并行输出, 串口输出, SSI接口, 总线, profibus, RS485, RS232等。

Function Principle

When pull the Draw wire position sensor, it will output a settled pulse, for photoelectric encoder output pulse and encoder grating engraved lines s the same, when it need to improve resolution, available A and B two way signal frequency or replace the high resolution encoder.

The starting point of position can be arbitrary set, and can realize the multiturn unlimited accumulation and measurement (depending on the maximum stroke), you can also turn each signal of a pulse Z, as a reference for mechanical parts.

With absolute value encoder wire displacement sensor when pull rotation (week), there are one-to-one with other displacement position code (gray code, binary, BCD) output, from the change in the code size, then you can judge the position of the forward and reverse and the spindle. it doesn' t need the direction judgment circuit

Product Characteristic

Main features: easy installation, equipped with spare installation datum, small space for installation, install difficulty is low; Without the guidance, the mechanical tolerance will not affect the measure precision

Application Range

Applied to automatic control, automatic detection of east in the field of automation, such as CNC machine, coating equipment, servo motor, steel rolling machinery, textile machinery, printing machinery, light industry machinery, automobile industry, material testing machine, and office instrumentation and other industries. Construction machinery and other related size measurement or position control.

output signal and the interface mode

Analog type 0-20mA, 4-20mA, 0-5V, 0-10V, 0-5K Ω , 0-10K Ω , they are belongs to the absolute position acquisition.

Output interface type, parallel output, serial port output, SSI interface, bus, profibus, RS485, RS232etc.