MUJIE 慕杰®

YOUR AUTOMATION, YOUR MUJIE!

分体式编码器MFT30系列
Split encoder MFT30 series

分体式设计，采用特殊矩阵数据读取，
纠错能力强，可靠性高，工作寿命长
适应电动主轴、直流电机、
多种尺寸可选。

Split design, using special matrix data reading,
Strong error correction capability, high reliability
and long service lifeSuitable for electric spindle, DC motor
Available in various sizes.

▶ 型号说明Model Explanation

MFT	30	05	-E-	500	BZ	5-	G	05	□
基本型号 Model M:常规增量型 Incremental encoder M□: 特殊型号定义 Speciall definition	外壳外径OD 30:φ30mm 32:φ32mm 56:φ56mm	孔径 Aperture 05:5mm 06:6mm 08:8mm	输出方式 Output configuration : E:电压输出NPN+R Voltage output NPN+R L:长线驱动26LS31 Long line drive 26LS31	脉冲数/分辨率 Resolution 100P/R 200P/R 360P/R 500P/R 1000P/R	输出相 Outputsignal: B:AB两相 BZ:ABZ三相	电压 Supply voltage 5:5V	出线方式 Outlet way G:直接出线 Direct outgoing line C:电缆+插头 Cable+plug	线缆长度 Cable 05:0.5M	客户定制 Customized informat

▶ 电缆线线色说明 Cable Color Explanation

信号线Signal	VCC	0V	A	B	Z	A/	B/	Z/	屏蔽线Shield
5芯电缆线5 wires	红Red	黑Black	绿Green	白White	黄Yellow	-	-	-	N.C

注1：电缆颜色若有更改，恕不另行通知，请以编码器标签或说明书上的颜色定义为准。Note1 : Please refer to color table or product instruction to connect wires.Chang of wire color will not be informed respectively.
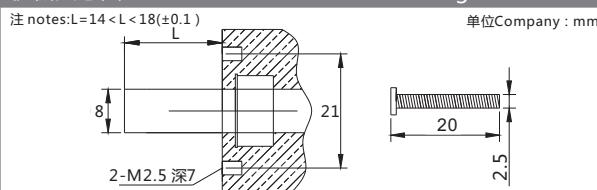注2：电缆线标准线长2米，如需其他规格在订货中备注说明。Note2 : Standard cable length is 2m.Other length can be customized.
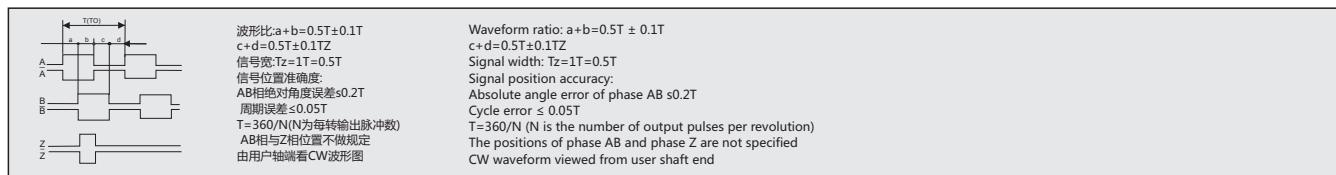
▶ 技术规格Specification

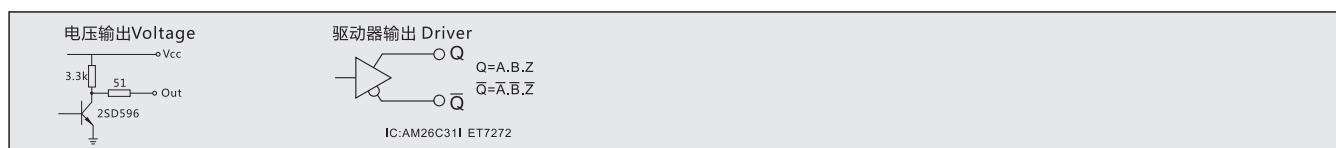| 电气参数 Electric parametar	
电源电压 Supply voltage	DC5V
分辨率 Resolving power	100,200,3000,360,600,1000,1024
输出方式 Output mode	电压/差分 voltage/differential
机械转速 Mechanical speed	5000转/分 Rpm
工作温度 Working temperature	-40℃~+85℃
轴负荷 Axle load	径向25N/轴向15N Radial 25N/axial 15N
响应频率 Shaft load response frequency	300KNz

机械尺寸图Mechanical dimension drawing

注 notes:L=14＜L＜18(±0.1)

单位Company : mm

▶ 电路输出方式(示例) Example for output circuit

波形比:a+b=0.5T±0.1T
c+d=0.5T±0.1TZ
信号宽:Tz=1T=0.5T
信号位置准确度:
AB相相对角度误差≤0.2T
周期误差≤0.05T
T=360/N(N为每转输出脉冲数)
AB相与Z相位置不做规定
由用户轴端看CW波形图

Waveform ratio: a+b=0.5T ± 0.1T
c+d=0.5T±0.1TZ
Signal width: Tz=1T=0.5T
Signal position accuracy:
Absolute angle error of phase AB s0.2T
Cycle error ≤ 0.05T
T=360/N (N is the number of output pulses per revolution)
The positions of phase AB and phase Z are not specified
CW waveform viewed from user shaft end

▶ 电路输出方式(示例) Example for output circuit

电压输出Voltage

3.3k　51

2SD596

驱动器输出 Driver

Q=A.B.Z
Q̄=Ā.B̄.Z̄

IC:AM26C31I ET7272

▶ 安装尺寸图 Mounting Dimensions(单位Unit:mm)

编码器/磁栅尺 Encoder/Magnetic Scale

位移/倾角/计数器 Displacement /Inclination / Counter

接近/加速度/温度 Proximity/Acceleration/Temperature

光电/超声波/区域 Photoelectric/Ultrasonic/Area

压力/称重 Pressure / load cell

联轴器/附件 Couplings/Accessories