

MUJIE 慕杰®

YOUR AUTOMATION, YOUR MUJIE!

外径38mm, 轴径6mm, 抗震动、耐腐蚀、耐污染、体积小、可靠性高、结构简单, 广泛用于各种自动控制、监控领域、测量领域
Outer diameter 38mm, shaft diameter 6mm, anti vibration
Corrosion resistance, pollution resistance, small size, reliable, simple structure, It is widely used in various automatic control, monitoring and measurement fields

电子式多圈MFH- DZ绝对值编码器
Electronic multi turn MFH- DZ absolute value encoder



型号说明 Model Explanation

MFH	-DZ	38	S	6	-4	-(4096)	12	8-30	F	2	-G
基本型号 Model M:常规增量型 Incremental encoder M□: 特殊型号定义 Speciall definition	类型type: DZ:电子式 Electronic	主体外径OD: 38φ38mm	轴型Shaft type: S:实心轴 Solid shaft	轴直径: Shaft diameter 6:φ6mm	输出方式: Output mode 4:4-20mA 10:0-10V	单圈分辨率: Single turn resolution 4096:4096	圈数: Number of turns 2 ¹² =4096圈	电压 Supply voltage 8-30: 8-30VDC 5:5VDC	出线方式 Outlet way F:侧出线防水 Side outlet waterproof	线缆长度 Cable 2: 2m	客户定制 Customized informat

注标准配线长度2米, 其他长度可定制 Note: the standard wiring length is 2 meters, and other lengths can be customized
例如: MFH-DZ38S6-4-(4096)128-30F2-G

电缆线色说明 Cable Color Explanation

信号线Signal	DC8~30V	GND	4-20mA	4mA(设定线)	20mA(设定线)	-	-	屏蔽线Shield
5芯电缆线5 wires	红 Red	黑 black	黄 yellow	绿 green	白 white	-	-	N.C

*实际线色 请以编码器上的标签标注为准
The actual line color shall be subject to the label on the encoder

技术规格 Specification

机械及环境参数 Mechanical and Environmental		电气参数 Electric parametar	
电源电压 Supply voltage	8-30VDC	允许最大机械转速 Maximum allowable mechanical speed	1500r/min
单圈分辨率 Single lap resolution	4096	启动力矩 Starting torque (N.m)	9.8x10 ⁻⁴
多圈分辨率 Multi turn resolution	4096	轴最大负荷 Maximum load of shaft	轴向 axial 29.4N
输出模式 Output mode	4-20mA输出或者0-10V输出		径向 radial 19.6N
工作温度 working temperature	-40°C~85°C	转动惯量 Moment of inertia(kg.m2)	8.0x10 ⁻⁷
储存温度 Storage temperature	-40°C~85°C	重量 weight (kg)	0.2
相对湿度 relative humidity	95% RH		
防护等级 Degree of protection	Ip54		

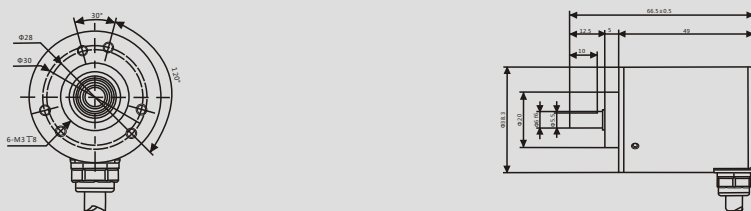
模拟量使用说明 Instructions for analog quantity

编码器采用线短接的方式标定电流值 The encoder uses the method of short circuit to calibrate the current value
4-20mA 设定方法举例: (0-10V 设置方法相同) Example of 4-20mA setting method: (the setting method of 0-10V is the same)
1、编码器红色线连接电源正极, 黑色线连接电源负极, The red line of the encoder is connected to the positive pole of the power supply, and the black line is connected to the negative pole of the power supply
2、旋转编码器至需要标定 4mA 电流值的位置; Rotate the encoder to the position where 4mA current value needs to be calibrated
3、绿色线不电源正极短接, 时间大于 1 秒后松开, 悬空或接地。The green wire is not short circuited to the positive pole of the power supply. It will be released after more than 1 second, suspended or grounded.
4、旋转编码器至需要标定 20mA 电流值的位置; Rotate the encoder to the position where 20mA current value needs to be calibrated
5、白色线与电源正极短接, 时间大于 1 秒后松开, 悬空或接地。The white wire is not short circuited to the positive pole of the power supply. It will be released after more than 1 second, suspended or grounded
至此电流设定完成, 在该两个位置之间旋转编码器, 编码器输出电流在 4-20mA 之间连续变化。
At this point, the current setting is completed. Rotate the encoder between the two positions, and the encoder output current changes continuously between 4-20mA.
注 1、不可在同一位置设置 4mA 和 20mA 2、因编码器有量程, 设置 4mA 和 20mA 应在同一量程范围内; 若超过了同一量程范围, 则设置不成功。
It is not allowed to set 4mA and 20mA at the same position. Because the encoder has a range, setting 4mA and 20mA should be within the same range; if it exceeds the same range, the setting is unsuccessful.

注意事项 Matters needing attention

开机前, 应仔细检查, 产品说明书与编码器型号是否相符, 接线是否正确。
Before starting up, carefully check whether the product manual is consistent with the encoder model and whether the wiring is correct.
编码器轴与用户端输出轴之间采用弹性软连接, 以避免因用户轴的窜动、跳动而造成编码器轴系的损坏。Elastic soft connection is adopted between the encoder shaft and the output shaft of the user end to avoid the damage of the encoder shaft system caused by the serial movement and runout of the user shaft.
安装时请注意轴的轴负载。应保证编码器轴与用户输出轴的不同轴度 < 0.20mm, 与轴线的偏角 < 1.5° Please pay attention to the allowable axle load during installation. It shall be ensured that the different axial degree between the encoder shaft and the user's output shaft is less than 0.20mm, and the deflection angle with the axis is less than 1.5°
安装时尽量避免敲击和摔打碰撞, 不要将电源线地线接反, 避免在强电磁波环境中使用 During installation, try to avoid knocking, falling and collision, do not connect the power line and ground wire reversely, and avoid using in strong electromagnetic wave environment
配线时应采用屏蔽电缆, 接地线应尽量粗, 一般应大于 φ3 屏蔽电缆 shall be used for wiring, and the grounding wire shall be as thick as possible, generally greater than φ 3
编码器的输出线彼此不要搭接, 信号线不要接到直流电源上或交流电流上, 以免损坏输出电路 The output lines of the encoder shall not be overlapped with each other, and the signal line shall not be connected to the DC power supply or AC current, so as to avoid damaging the output circuit

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