

MUJIE 慕杰®

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方形漫反射激光传感器MZJ系列

Square diffuse reflection laser sensor MZJ series

适用于小工件检测，最小可检测到Φ0.1mm由于是细小光束，可以检测缝隙或小孔，实现了可视的小光点，可以用肉眼确认检测点的位置
Applicable to small workpiece detection, with the minimum detectable Φ 0.1mm because it is a small light beam, it can detect gaps or holes, realizing a visible small light point, and the position of the detection point can be confirmed with the naked eye



型号说明 Model Explanation

M	Z	J	-30	D	N	K	-Z	-□	-□
基本型号 Model M:型号代码 Model code M□:特殊型号定义 Special definition	传感器类别: Z:方形内置小型放大器型 Compact photoelectric sensor with Built in Amplifier	激光 laser	检测距离 Sensing distance: 30:30cm 5:5m	检测方式 Sensing method: D:漫反射 Diffuse-reflective R:回归反射Retro-Reflective with MSR function T:对射Throughbeam	输出方式 Output configuration: N:NPN输出 DC 3-wire,NPN P:PNP输出DC 3-wire,PNP	输出状态 Operation mode: K:常开 NO B:常闭 NC	产品等级 Product grade: Z:Z级	线缆长度 Cable length (标配2米 Standard Cable length is 2m) 5 : 5m	客户定制 Customized informat

产品种类 Product Category

型号 Model	形状 Appearance	检测距离 Sensing distance	输出规格 Output configuration	动作状态 Operation mode	连接方式 Connection mode
MZJ-30 DNK		30cm	N:NPN输出 DC 3-wire,NPN P:PNP输出 DC 3-wire,PNP	K:常开 NO B:常闭 NC	导线引出 Cable line
MZJ-5 TNK		5m			

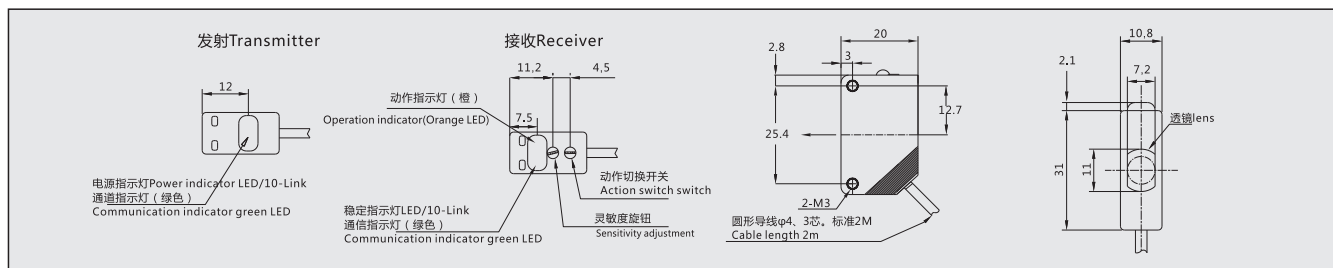
技术规格 Specification

型号 Type	MZJ-30 DNK	MZJ-5 TNK
光点直径 Spot diameter	φ2.5mm(检测距离90mm时)	
电源电压 Voltage	直流:10-30VDC	
检测距离 Sensing distance	30cm	5m
光源 Light source	红外发光二极管 Infrared LED	
消耗电流 Leakage current	30mA max.	投光器 Emitter:15mA max. 受光器 Receiver:20mA max.
响应时间 Response time	1ms max.	
输出/电源指示 Output/Power indication	-/红色 LED Red LED	
回路保护 Protection circuits	电源逆向保护,输出短路保护	Power supply reverse polarity, Output short-circuit protection
环境照度 Ambient illumination	太阳光 Sunlight:10000lx,白炽灯 Incandescent lamp:3000lx	
环境温度 Ambient temperature	-25~+55°C(不结冰 with no icing)	
环境湿度 Ambient humidity	工作时/保存时 Operating/Storage:35~85%RH/Storage:35~95%RH(不结露 with no condensation)	
绝缘电阻 Insulation resistance	20MΩ max. (DC500V) 充电部总体与外壳间	Between current -carrying parts and case
耐电压 Dielectric strength	AC1000V max. 50~60Hz 1min 充电部总体与外壳间	Between current -carrying parts and case
重复精度 Repeat precision	<5%	
负载电流 Load current	<200mA	
压降 Drop	<1.5V	
振动(耐久) Vibration resistance	10~55Hz复振幅 1.5mm X, Y, Z各方向 2h double amplitude for 2 hours each in X, Y and Z directions	
冲击(耐久) Shock resistance	500m/s² X, Y, Z各方向 10次	500m/s² 10 times each X, Y and Z directions
防护等级 Degree of protection	IEC IP64	
外壳 Case	PBT	

电路输出方式(示例) Example for 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