

检测距离是同类色标传感器3倍，双模模式同时具备颜色+光强度检测功能，因而检测更加稳定准确

矩形色标传感器MSB-S系列

Rectangular color code sensor MSB-S series

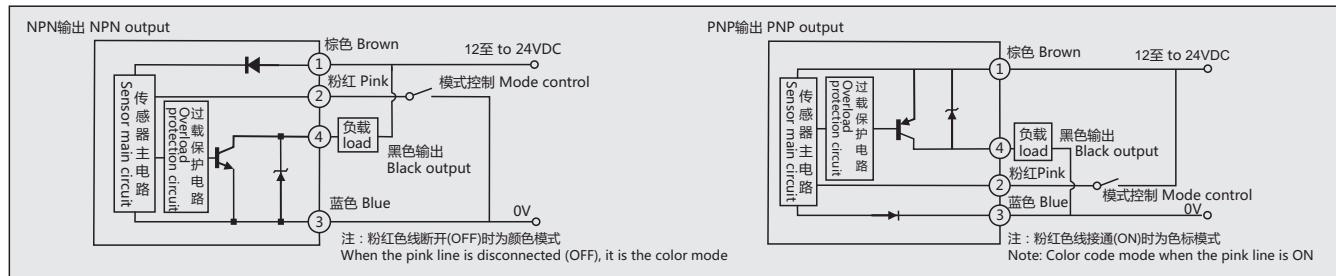
The detection distance is three times that of similar color code sensors. The dual-mode mode has the function of color + light intensity detection at the same time, so the detection is more stable and accurate



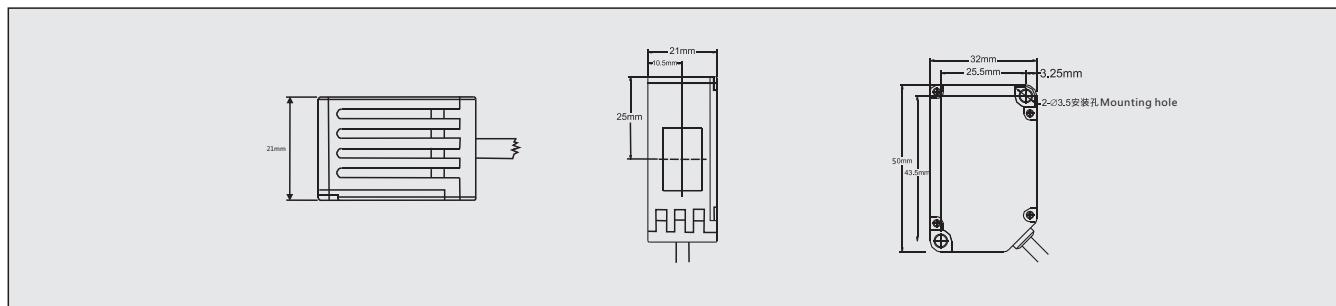
▶ 型号说明 Model Explanation

类型Type		电缆型Cable type	
型号Model		NPN MSB-S11	PNP MSB-S11P
检测距离Detection distance	18至28mm		
电源电压Supply voltage	24VDC±10%脉动P-P10%以下 24VDC ± 10% pulsation P-P10% below		
消耗电量Power Consumption	功率850mW以下 (电源电压24V时、消耗电流35mA以下) Power below 850mW (power supply voltage 24V, consumption current below 35mA)		
模式切换输入 Mode switching input	色标模式Color code mode 模式模式mode	Low (ON) 流出电流 Outflow current 输入阻抗 Input impedance 0至 0.6VDC 0.5mA以下 following 约 about 10kΩ	Low (OFF) 0至0.6VDC或开放 Low (OFF) 0 to 0.6VDC or open
输出output	彩色模式Colour pattern	High (OFF) 12至 +VDC 或开放 Or open	High (ON) 12至 to +VDC 流出电流 Outflow current 输入阻抗 Input impedance 3mA以下 following 约About 10kΩ
输出操作 Output operation	色标模式Color code mode 色彩模式Color mode	NPN开路集电极晶体管 NPN open collector transistor · 最大流入电流 Maximum inflow current : 50mA · 外加电压 applied voltage : 30VDC以下 following (输出和0V之间) (between output and 0V) · 剩余电压 Residual voltage : 1.5V以下 following (流入电流50mA时) *(When the inflow current is 50mA)*	PNP开路集电极晶体管 PNP open collector transistor · 最大流出电流 Maximum outflow current : 50mA · 外加电压 applied voltage : 30VDC以下 following (输出和+V之间) (between output and +V) · 剩余电压 Residual voltage : 1.5V以下 following (流出电流50mA时) *(when the outflow current is 50mA)*
短路保护Short circuit protection		色标检出时ON when the color code is detected 一致时ON ON when consistent	
反应时间Reaction time		配备(自动恢复) Equipped (automatic recovery)	
环境温度Ambient temperature		200μs以下 following	
环境湿度Ambient humidity		-10至+55°C (不可结露, 结冰) 保存时 : +20至+70°C -10 to +55 °C (no condensation, freezing) Storage:+20 to +70 °C	
投光元件Projection element		35至85%RH保存时 : 35至85%RH 35 to 85% RH Storage: 35 to 85% RH	
材质Texture of material		红色/绿色/蓝色复合LED (投光波峰波长 : 640nm/525nm/470nm) Red/green/blue composite LED (projection peak wavelength: 640nm/525nm/470nm)	
电缆Cable		外壳: PBT操作面板: PC操作按钮: 硅胶透镜: PC Shell: PBT operation panel: PC operation button: silicone lens: PC	
重量Weight		0.2mm ² 4芯橡皮电缆标准长2m区分(配色) 褐色: +V 黑色: 输出 粉红色: 模式转换输入 蓝色: 0V 0.2mm ² 4-core rubber cable with standard length of 2m is distinguished (color matching) Brown: +V Black: Output pink: Mode conversion Input blue: 0V	
		约 about 110g	

▶ 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 / loadcell

联轴器/附件
Coupling/Accessories