

FF-12通用型放大器

(FF-12 general purpose amplifiers)



Feature/特点:

- ◆ 体积小、机身薄、安装方便
Small size, thin body, easy to install
- ◆ 长距离: 漫反射 (200mm)、对射 (1000mm); 高速: FF-12H (50us)、FF-12 (200us);
Long range: diffuse reflectance (200mm), on the radio (1000mm); Expressway: FF-12H (50us) FF-12 (200us);
- ◆ 独特数字电路设计, 自动研发新芯片, 采用进口优质零件;
Unique digital circuit design, research and development of new chip automatically, using imported high-quality parts;
- ◆ 精度高, 可检测Ø0.03mm不透明物体; 标配40ms输出延时, 常开常闭可调节;
High precision, can detect Ø0.03mm opaque objects; standard 40ms output delay, normally open normally closed adjustable;
- ◆ 有红光、绿光、蓝光、白光、红外光多种光源供选择;
Red, green, blue, white, infrared light and a variety of light sources for selection;

光纤传感器
(Fiber Optic Sensors)

光纤管
(Fiber tube)

光纤聚焦镜
(Fiber Focus Lens)

接近开关
(Proximity switch)

光电开关
(Photoelectric switch)

标签传感器
(Label sensor)

光幕传感器
(Light curtain)

激光对准线
(Laser alignment)

压力传感器
(Pressure sensor)

磁性开关
(Magnetic switch)

连接器
(Connector)

激光传感器
(Laser sensors)

色标传感器
(Color sensor)

导轨式电源
(Rail power supply)

固态继电器
(Solid State Relay)

Specifications/规格表

| 类型 (Type) | 通用型 (Universal) | 绿光 (Green) | 蓝光 (Blue) | 白光 (White) | 红外光 (Infrared) | 高速 (High-speed) |
|----------------------------------|-----------------|--|--------------------------------------|---------------------------------------|--|-----------------|
| 型号 (Model) | FF-12 | FF-12G | FF-12B | FF-12W | FF-12F | FF-12H |
| | FF-12P | FF-12PG | FF-12PB | FF-12PW | FF-12PF | FF-12PH |
| 电源电压 (Power supply voltage) | | 12 ~ 24VDC±5% | | 脉动P-P5%以下 (Pulsation P-P5% less) | | |
| 消耗电流 (Consumption Current) | | | 100mA Max | | | |
| 负载电流 (Load current) | | | | 100mA Max.at DC24V | | |
| 输出模式 (Output mode) | | NPN开路集电极晶体管 (NPN open-collector transistor) | | | PNP开路集电极晶体管 (PNP open-collector transistor) | |
| 保护电路 (Protection circuit) | | | | | 反极性保护/过电路保护 (Reverse polarity protection / off circuit protection) | |
| 反应时间 (Reaction time) | | 200uS | | | | 50uS |
| 指示灯 (Indicator) | | | | 输出指示灯: (红色) (Output indicator: (red)) | 电源指示灯: (绿色) (Power LED: (Green)) | |
| 灵敏度功能 (Sensitivity function) | | | | 多回转10圈 (Multi-turn 20 turn trimmer) | | |
| 隔离阻抗 (Isolation resistance) | | | 20 M Ω min.(DC500V) | | | |
| 绝缘耐压 (Insulation strength) | | | AC500V 60Hz for 60 sec | | | |
| 工作温度 (Operating temperature) | | | -10°C ~ + 60°C | | | |
| 工作湿度 (humidity operating) | | | 35 ~ 85% RH | | | |
| 防水等级 (Waterproof Grade) | | | IP64 | | | |
| 外观材质(Appearance of the material) | | | ABS | | | |
| 出线方式 (connection method) | | | Pre-wired Φ4.2*2M/3-wires | | | |
| 重量 (Weight) | | | 主体重量: 约35g (Net weight: about 35g) | | | |
| | | | 包装重量: 约65g (gross weight: about 65g) | | | |

可定制PUR柔软线, 尾部加W.

PUR soft line can be customized, the rear plus W.

可定制FF-12A模拟量0~5V输出产品 (0 ~ 5V output products can be customized FF-12A analog)

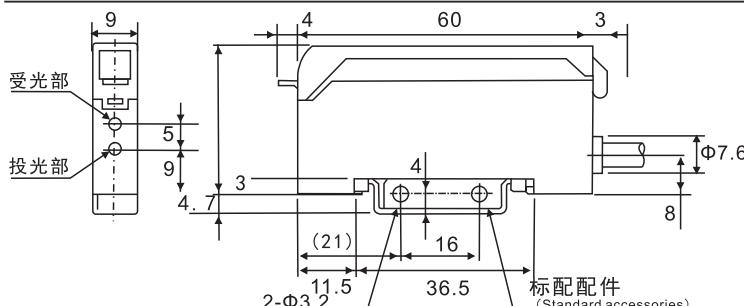
光纤传感器
(Fiber Optic Sensors)

FF-12

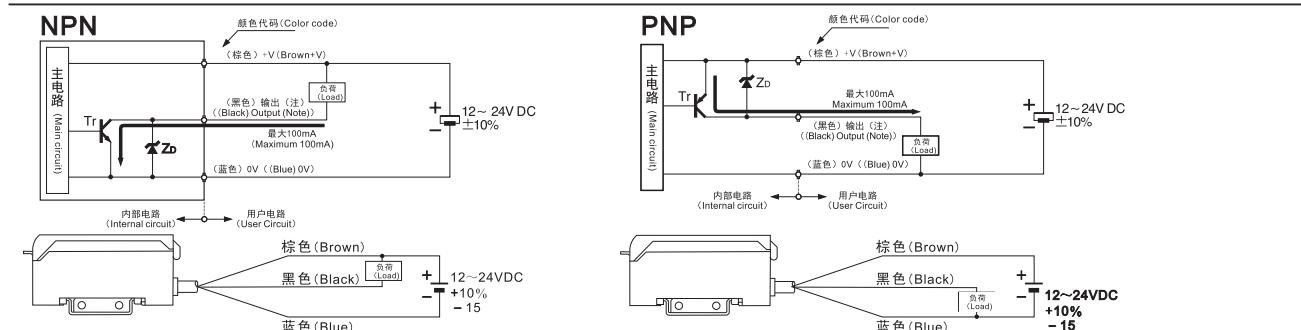
FF-300

FF-301

DiMensions/外型尺寸图 (单位:mm)

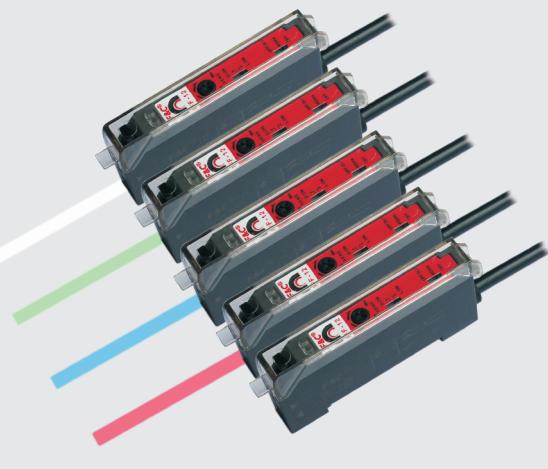


Wiring schemes/ 接线图



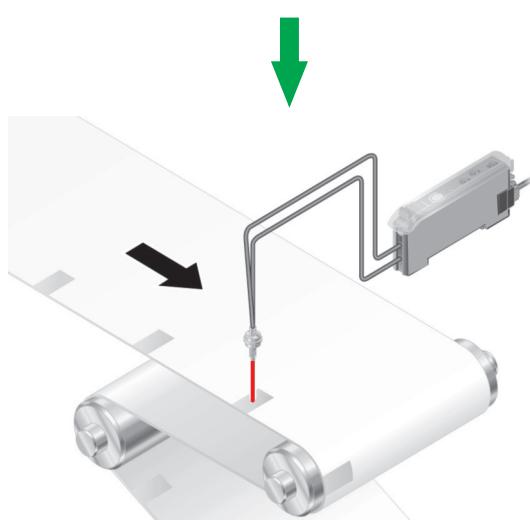
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Product Application/产品应用

白光、红光、绿光、蓝光、红外光
White, red, green, blue and infrared light► FF-12外型说明
FF-12 appearance Description

► FF-12G搭配FFR-D16G可实现颜色区别检测

FF-12G with the FFR-D16G can achieve the color difference between detection

红、绿、白、蓝、红外光多种光源
(Red, green, white, blue, infrared light a variety of light sources)标记检测
(Mark detection)检测半透明物体
(Detection of translucent objects)