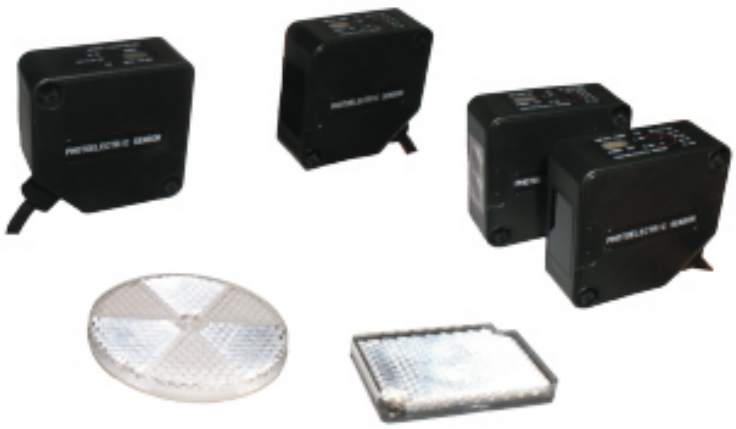
Photoelectric Sensors

PFR 50 Series



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CONTENTS

PFR 50R Series ····· 02

PFR 50 Beam Pattern ····· 04

PFR 50 Control Output Diagram ····· 05

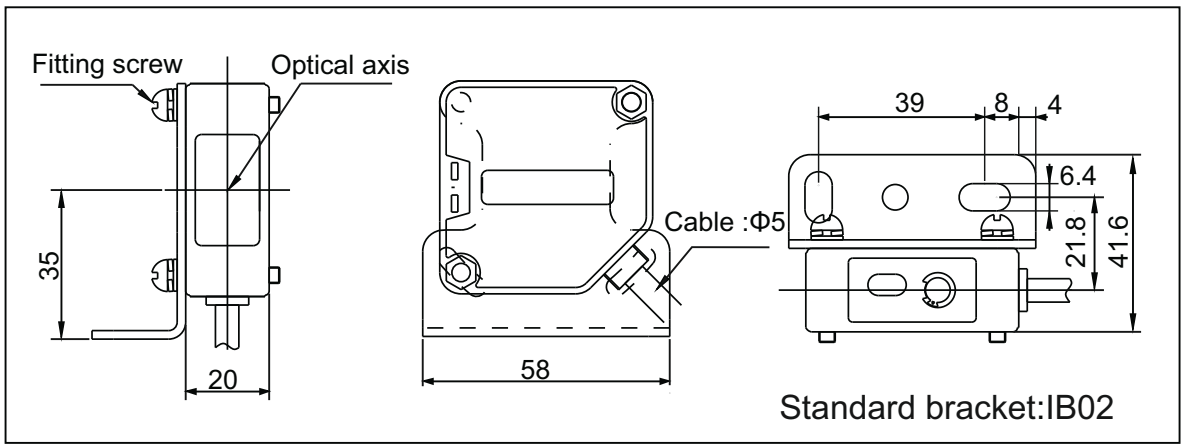
PFR 50 Accessory ····· 06

▣ Product Features

- Non-sphere optical lens totally eliminate stray light and overcome the interference from such light sources as sunlight;
- Able to detect working status by red LED indicator ,makes installation easy ;
- LIGHT ON/DARK ON options;
- Protection grade is IP65(IEC);
- The implementation of product standards:
  Standard:GB/T 14048.10-2008;
  IEC:IEC 60947-5-2:2004.

▣ Mechanical Dimensions

Unit:mm



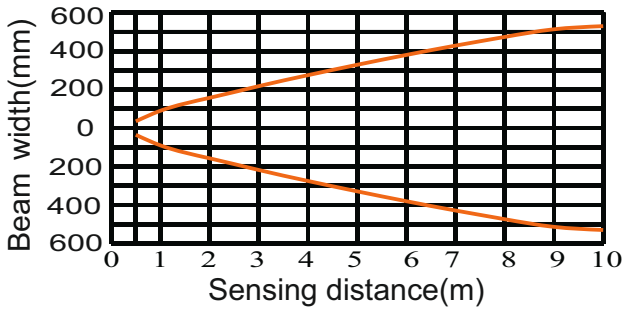
▣ PFR 50R Specifications

Model	PFR 50R-RF
Sensing target	Opaque materials of Min. ∮ 30
Sensing distance	(*1) RP 04: 0-7m, RP 01: 0-12m
Power supply	10-30VDC
Current consumption	Max.60mA
Light source	Red LED(Modulatcd:660nm)
Action mode	Choose L. on/D. on through potentiometer
Control output	Relay output (contact rating:30VDC,1A or 120VAC, 1A resistant load;contact component:1C)
Response time	Max.20 ms
Protection circuit	Reverse polarity protection
Indicator	Power LED:green; Action LED:red
Ambient light	Sun:30000lx, Incandescent lamp:3000lx
Temperature range	-20 ~ +65°C(non-freezing)
Ambient humidity	35-85%RH
Construction	Case:ABS, Lens:PMMA, Cable:PVC
Protection grade	IP65（IEC）
Connections	(∗2) ∮ 5,5 ×0.2
Accessory	Mounting bracket:IB02, Nut:M4×25

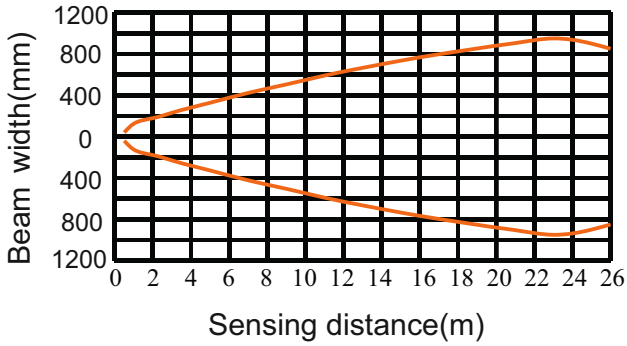
Notes:∗1 The sensing distance indicating set range between reflector and sensordepends on RP05.Reflector varies according to the sensing distance;

∗2 The standard cables are 2m,long which could be customized.

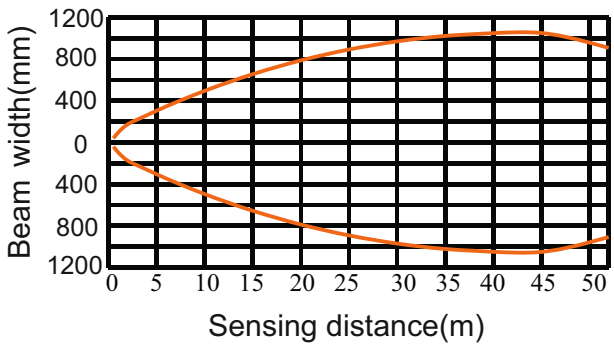
▣ Beam pattern



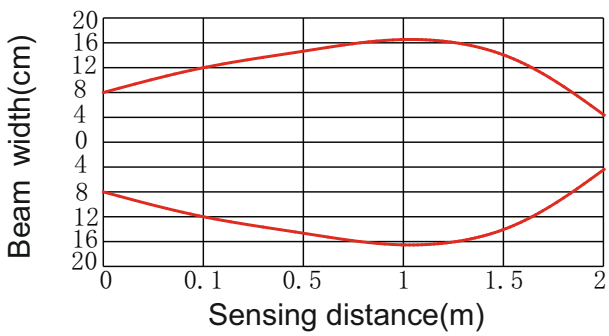
PFR 50T(F)-10MRF



PFR 50T(F)-25MRF

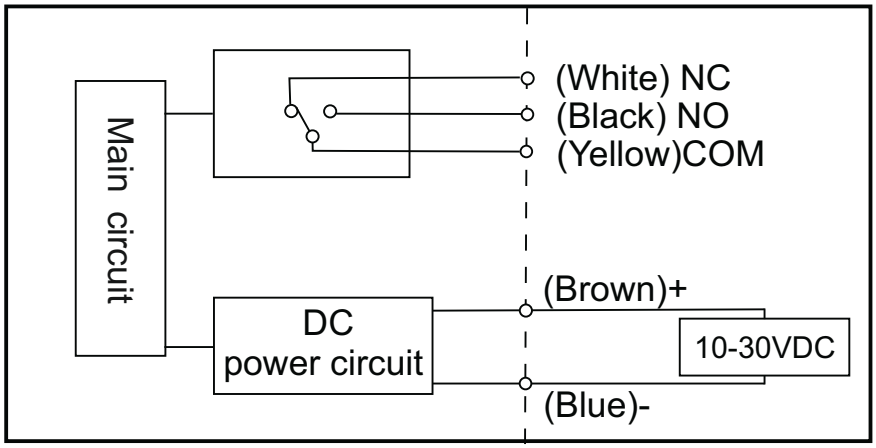


PFR 50T-50MRF

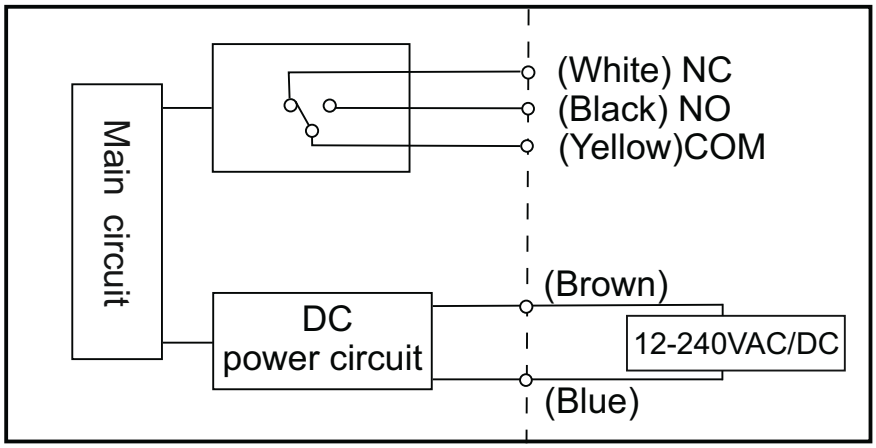


PFR 50D(F)-1MRL(D)

▣ Control output diagran



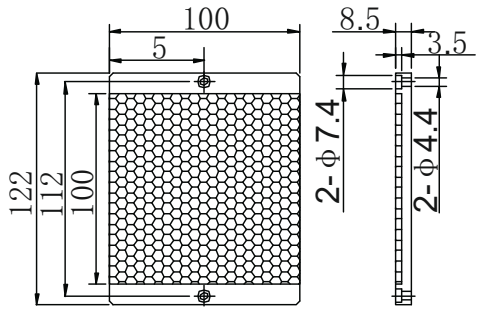
DC power, relay output



Free power, relay output

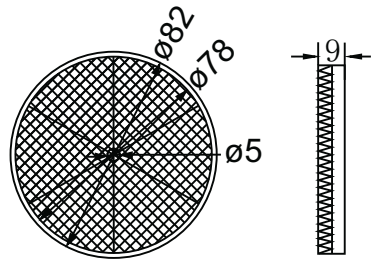
■ Mirror dimensional drawing

RP01



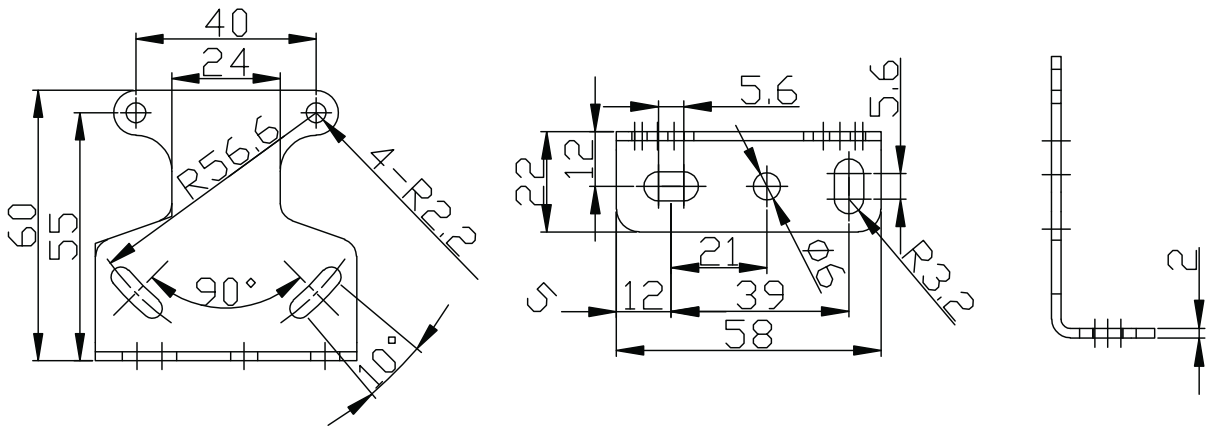
Sensing distance
0−12m

RP04



Sensing distance
0−7m

■ Bracket -IB02



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