

PRK3 Rectangular Photo Sensor



Features

- Visible dual makes you easy to know the current operating situation.
- For a better focusing, with the Non-spherical optical lens.
- Compact size (W12xH31xD20mm), space saving.

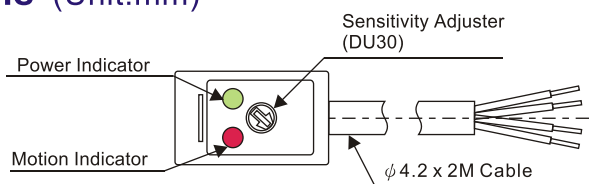


Specifications

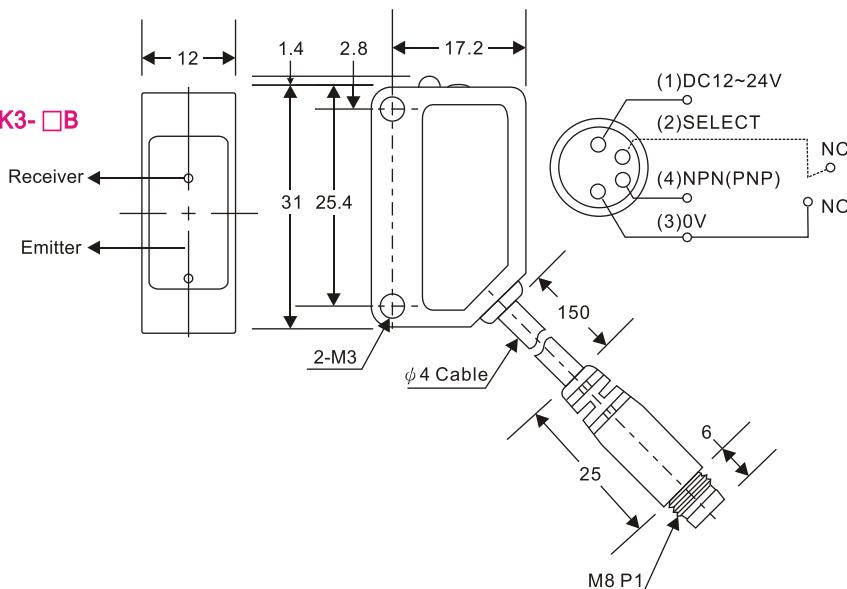
Type	Pre-wire ϕ 4.2	PRK3-D30N	PRK3-D30P	PRK3-R200N	PRK3-R200P	PRK3-T500N	PRK3-T500P
	M8 Pigtailed type	PRK3-D30NB	PRK3-D30PB	PRK3-R200NB	PRK3-R200PB	PRK3-T500NB	PRK3-T500PB
Sensing type	Diffuse reflection 擴散反射式		Retroreflective 鏡片反射式		Through beam 對照式		
Sensing distance	30 cm		2M		5M		
Emitting light	Infrared LED 850 nm		Infrared LED 850 nm		Infrared LED 940 nm		
Operating voltage	12 ~ 24VDC						
Current consumption	25mA max.		25mA max.		40mA max.		
Load current	100mA Max. at DC24V						
Output type	NPN NO/NC	PNP NO/NC	NPN NO/NC	PNP NO/NC	NPN NO/NC	PNP NO/NC	PNP NO/NC
Response time	1.5 ms Max.						
Insulation resistance	20M Ω Min. (DC500V)						
Voltage withstandability	AC1000V 60Hz for 60 Sec.						
Operating temperature	-20 ~ +60 $^{\circ}$ C						
Ambient humidity	35% ~ 85%RH						
Protection degree	IP64						
Housing material	ABS						
Wiring method	PRK3-□N/P: Pre-wired ϕ 4.2 x 2M / 4-wires; PRK3-□B: M8 pigtailed connector type						
Weight	PRK3-□N/P: Approx. 60g PRK3-□B: Approx. 20g		PRK3-□N/P: Approx. 60g PRK3-□B: Approx. 20g		PRK3-□N/P: Approx. 115g PRK3-□B: Approx. 40g		

Dimensions (Unit:mm)

PRK3-□N/P



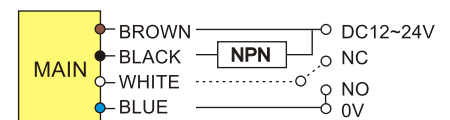
PRK3-□B



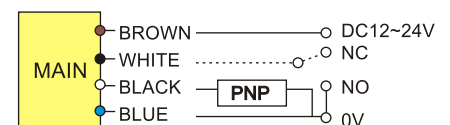
Wiring diagram

Wiring diagram / 接線圖	
Diffuse reflection / 擴散反射式	① ②
Through beam / 對照式	① ② Receiver / 接收
	③ Emitter / 發射

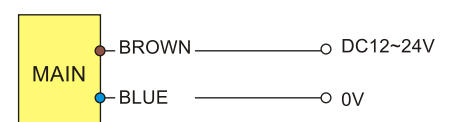
① NPN Wiring diagram



② PNP Wiring diagram



③ RX Wiring diagram



PRK3 Rectangular Photo Sensor



Features

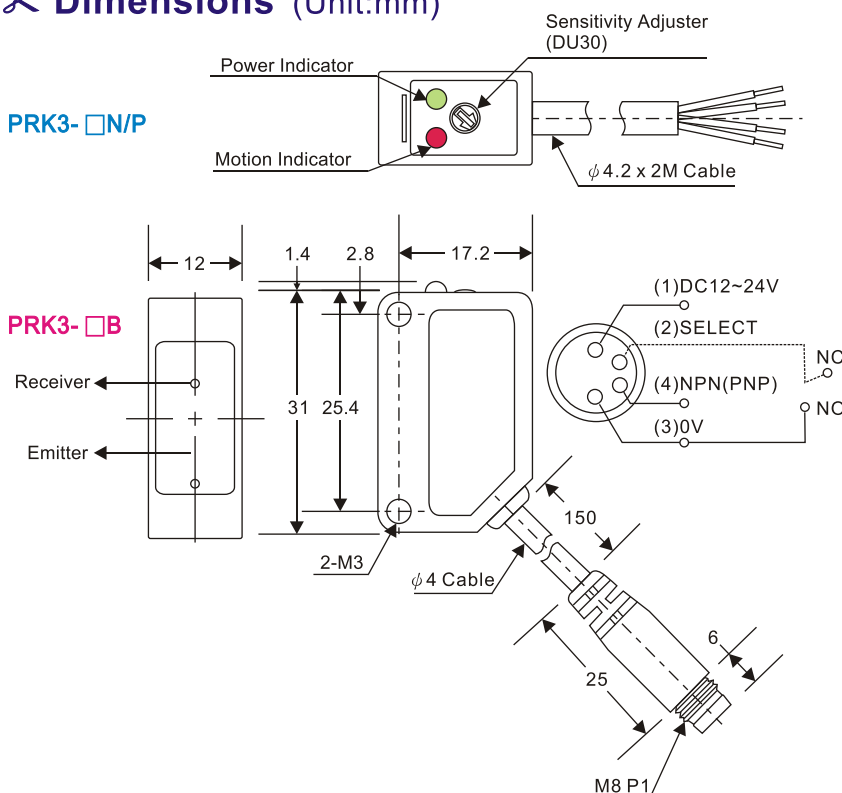
- Good performance on ambient illumination resistance. It has a good performance when the twist light bulb is away from 1 meter upward.
- It is easy to detect transparent object.
- For a better focusing of an optic axis, with the red LED.
- Not affected by color or albedo. Any object can be detected.



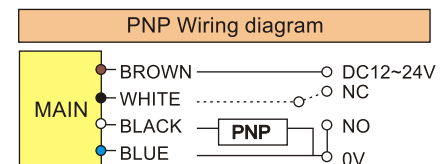
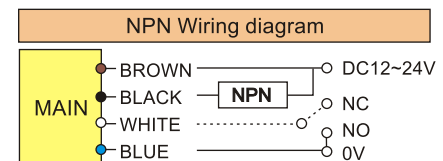
Specifications

Type	Pre-wire $\phi 4.2$	PRK3-QR200N	PRK3-QR200P	PRK3-QM10N	PRK3-QM10P	PRK3-V03N	PRK3-V03P
	M8 Pigtailed type	PRK3-QR200NB	PRK3-QR200PB	PRK3-QM10NB	PRK3-QM10PB	PRK3-V03NB	PRK3-V03PB
Sensing type	Retroreflective (Red LED) 鏡片反射式(紅光)		Diffuse reflection (Red LED) 擴散反射型(紅光)		Convergent reflection type 限定距離反射型		
Sensing distance	2M		10cm		3cm		
Emitting light	Red LED 660 nm		Red LED 660 nm		Infrared LED 850 nm		
Operating voltage	12 ~ 24VDC						
Current consumption	20mA max.		20mA max.		30mA max.		
Load current	100mA Max. at DC24V						
Output type	NPN NO/NC	PNP NO/NC	NPN NO/NC	PNP NO/NC	NPN NO/NC	PNP NO/NC	PNP NO/NC
Response time	1.5 ms Max.		1 ms Max.		1.5 ms Max.		
Insulation resistance	20M Ω Min. (DC500V)						
Voltage withstandability	AC1000V 60Hz for 60 Sec.						
Operating temperature	-20 ~ +60°C						
Ambient humidity	35% ~ 85%RH						
Protection degree	IP64						
Housing material	ABS						
Wiring method	PRK3-□N/P : Pre-wired $\phi 4.2 \times 2M / 4$ -wires ; PRK3-□B : M8 pigtailed connector type						
Weight	PRK3-□N/P : Approx. 60g PRK3-□B : Approx. 20g		PRK3-□N/P : Approx. 60g PRK3-□B : Approx. 20g		PRK3-□N/P : Approx. 60g PRK3-□B : Approx. 20g		

Dimensions (Unit:mm)



Wiring diagram



Applications

