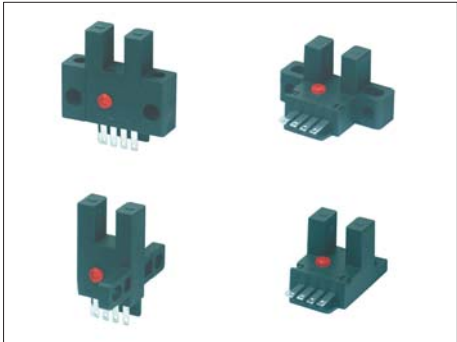




PG-47/67 PHOTOMICROSENSOR



- * Series includes models that enable switching between N.O. or N.C. operation
- * Response frequency as high as 1kHz
- * Easy operation monitoring with bright light indicator
- * Wide operating voltage range : 5~24VDC
- * Models in which the light indicator turns ON for dark-ON operation are also available
- * A wide range of variations in four different shapes
- * Flexible robot cable is provided as a standard feature

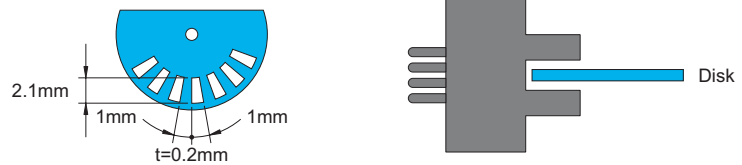
TYPE SELECTION :

Appearance	Sensing method	Sensing distance	Connecting method	Operating mode	Indicator mode	Model	
						NPN output	PNP output
Standard 	Through-beam type (with slot)	5mm (slot width)	Connector (4 poles)	N.O. / N.C. (selectable)	Light-ON	PG-670NL	PG-670PL
					Dark-ON	PG-670ND	PG-670PD
			Connector (3 poles)	N.O.	Light-ON	PG-470NL1	PG-470PL1
					Dark-ON	PG-470ND1	PG-470PD1
N.C.				Light-ON	PG-470NL2	PG-470PL2	
				Dark-ON	PG-470ND2	PG-470PD2	
L-shaped 			Connector (4 poles)	N.O. / N.C. (selectable)	Light-ON	PG-671NL	PG-671PL
					Dark-ON	PG-671ND	PG-671PD
			Connector (3 poles)	N.O.	Light-ON	PG-471NL1	PG-471PL1
					Dark-ON	PG-471ND1	PG-471PD1
N.C.				Light-ON	PG-471NL2	PG-471PL2	
				Dark-ON	PG-471ND2	PG-471PD2	
T-shaped, slot center 7mm 	Connector (4 poles)	N.O. / N.C. (selectable)	Light-ON	PG-672NL	PG-672PL		
			Dark-ON	PG-672ND	PG-672PD		
	Connector (3 poles)	N.O.	Light-ON	PG-472NL1	PG-472PL1		
			Dark-ON	PG-472ND1	PG-472PD1		
N.C.		Light-ON	PG-472NL2	PG-472PL2			
		Dark-ON	PG-472ND2	PG-472PD2			
Close-mounting 	Connector (4 poles)	N.O. / N.C. (selectable)	Light-ON	PG-674NL	PG-674PL		
			Dark-ON	PG-674ND	PG-674PD		
	Connector (3 poles)	N.O.	Light-ON	PG-474NL1	PG-474PL1		
			Dark-ON	PG-474ND1	PG-474PD1		
N.C.		Light-ON	PG-474NL2	PG-474PL2			
		Dark-ON	PG-474ND2	PG-474PD2			

SPECIFICATION :

Sensing distance	5mm(slot width)	
Sensing object	Opaque: 2 x 0.8mm min.	
Differential distance	0.025mm	
Light source	GaAs infrared LED with a peak wavelength of 940nm	
Indicator	Light indicator (orange)(turn ON when light is interrupted for models with D)	
Supply voltage	5~24VDC \pm 10%, ripple (p-p): 10% max.	
Current consumption	35mA max. (NPN models), 30mA max. (PNP models)	
Control output	NPN open collector: 5~24VDC, 100mA max. 100mA load current with a residual voltage of 0.8V max. 40mA load current with a residual voltage of 0.4V max.	
	PNP open collector: 5~24VDC, 50mA max. 50mA load current with a residual voltage of 1.3V max.	
Response frequency *1	1kHz min. (3kHz average)	
Ambient temperature range	Operating: -25~+55°C, Storage: -30~+80°C(with no icing or condensation)	
Ambient humidity range	Operating: 5%~85%, Storage: 5%~95%(with no icing or condensation)	
Degree of protection	IEC60529 IP50	
Connecting method	Connector Models (direct soldering possible)	
Weight	Standard app. 3.2g, L-shaped app. 2.8g, T-shaped/close-mounting app. 2.6g	
Material	Case	Polybutylene phthalate(PBT)
	Cover	Polycarbonate
	Emmitter/Receiver	

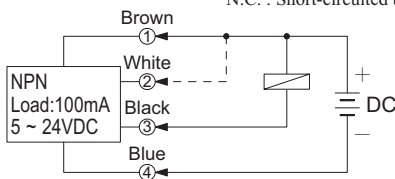
*1.The response frequency was measured by detecting the rotating disk shown at the right.



CONNECTION :

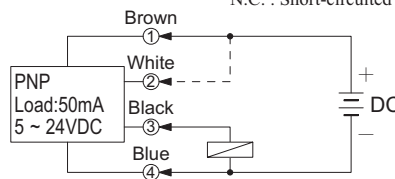
4 poles NPN model

N.O. : Open between ① and ② terminal
N.C. : Short-circuited between ① and ② terminal

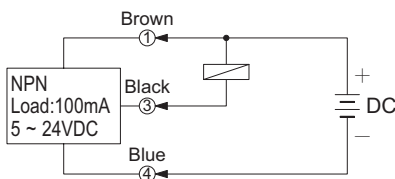


4 poles PNP model

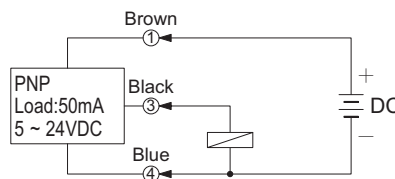
N.O. : Open between ① and ② terminal
N.C. : Short-circuited between ① and ② terminal



3 poles NPN model



3 poles PNP model

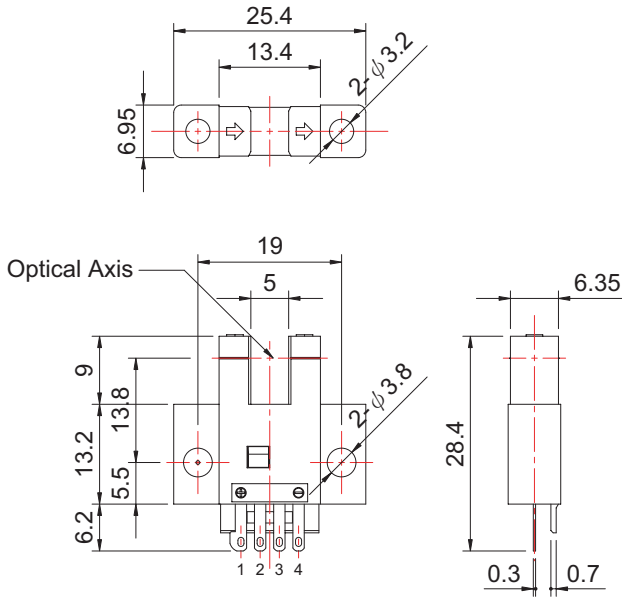


Terminal Arrangement

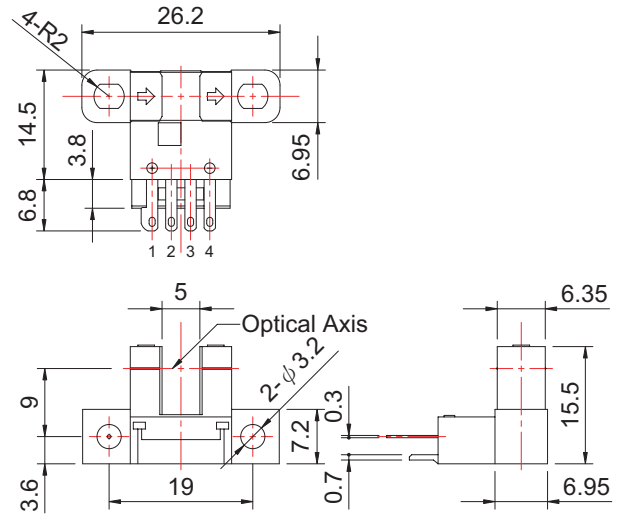
1	+	Vcc	Brown
2	L	L	White
3	OUT	OUTPUT	Black
4	-	GND(0V)	Blue

DIMENSIONS : (mm)

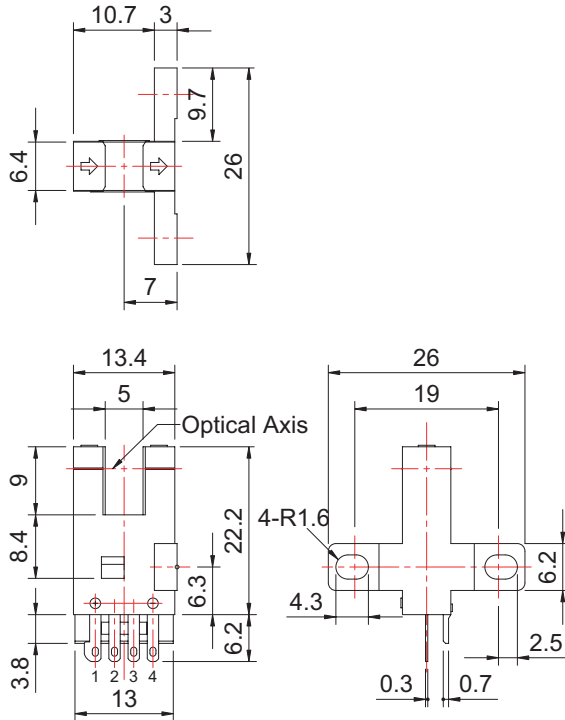
Standard



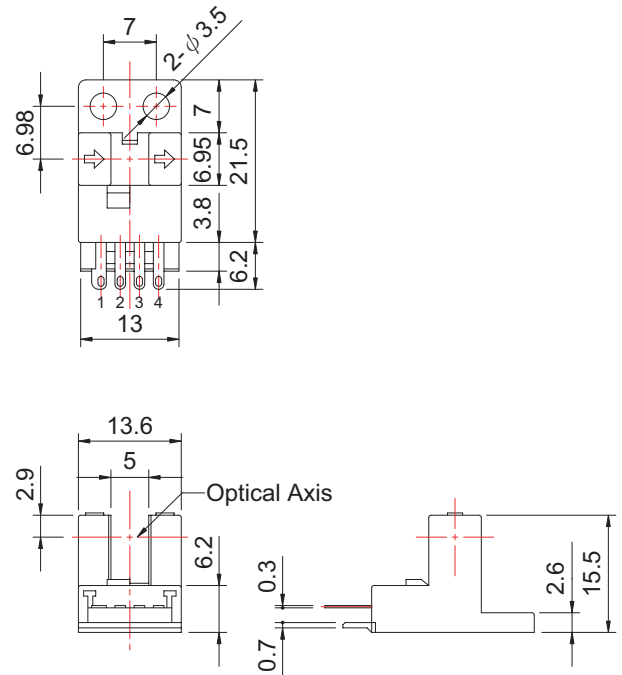
L-shaped



T-shaped



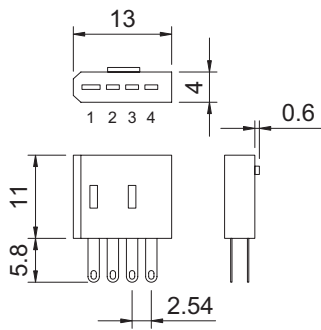
Close-mounting



ACCESSORY : (option)

Connector

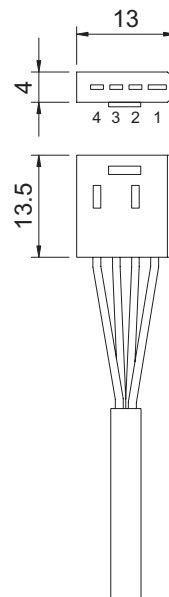
Model PG-P001



Connector with cable

Model PG-P201 - cable length 2m

Model PG-P301 - cable length 3m



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