

PW47 Series Slot-type Photoelectric Sensor

Milbbo



Feature

- Easy to connect.
- Bright indicator for conformation from all directions
- High response frequency 3000Hz Max.
- Polarity, Surge and short circuit protection
- Various shapes meet customer's various application
- Soft cable resistant to twists and turns

PW47	-	L	N	05
Series		Type	Output Mode	Length of power cord
PW47 Series		K L F R	N: NPN	0.3:3M 0.5:5M

Type

2M Pre-Wired Models	NPN	PW47-KN	PW47-LN	PW47-TN	PW47-YN	PW47-FN	PW47-RN
	PNP	PW47-KP	PW47-LP	PW47-TP	PW47-YP	PW47-FP	PW47-RP
5M Pre-Wired Models	NPN	PW47-KN05	PW47-LN05	PW47-TN05	PW47-YN05	PW47-FN05	PW47-RN05
	PNP	PW47-KP05	PW47-LP05	PW47-TP05	PW47-YP05	PW47-FP05	PW47-RP05

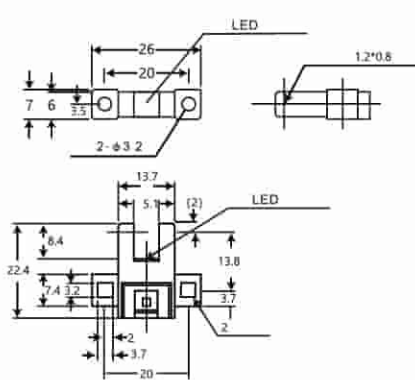
Specifications

Sensing Distance	5mm (Slot width)
Standard Sensing Object	0.8mm×1.2mm Min. (Opaque)
Differential Distance	0.05mm Max.
Power Supply Voltage	5V~24V DC±10 % Ripple P-P10 % Max.
Light Source/Wave Length	Infrared LED (Wave length: 855nm、Non-modulated)
Operating State Indicator	Red LED
Current Consumption	15mA Max.
Output Control	<NPN Output Models> • Load current: 50mA Max. • Load power supply voltage: 30V DC Max. (Between the output and 0V) • Residual voltage: 2V Max. (When load current is 50mA)、1V Max.(When load current is 16mA)
	<PNP Output Models> • Load current: 50mA Max. • Load power supply voltage: 30V DC Max. (Between the output and +V) • Residual voltage: 2V Max. (When load current is 50mA), 1V Max. (When load current is 16mA)
Output Mode	Light-ON / Dark-ON 2 outputs
Protect Circuit	Polarity protection. Surge suppressor. Load short-circuit protection
Response Frequency/Time	3KHz Max. / Light-ON: 20μs Max., Dark-ON: 80μs Max.
Ambient Illumination	1,000 lx max. with fluorescent light on the surface of the receiver
Ambient Temperature Range	Operating: -25℃~+55℃、Storage: -30℃~+80℃ (With no icing or condensation)
Ambient Humidity Range	Operating: 5%~85%RH,Storage: 5%~95%RH (With no icing or condensation)
Vibration Resistance	10Hz~2000Hz (Peak acceleration 196m/s ²) 1.5mm double amplitude for 2 hours each in XYZ direction
Shock Resistance	15,000m/s ² (About 1,500G) for 3 times each in XYZ direction
Protection class	IP50 (IEC)
Materials	Case: Polybutylene terephthalate (PBT), Emitter/Receiver: Polycarbonate (PC)

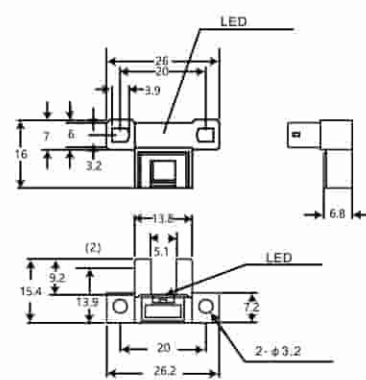
Dimension Diagram

Unit: mm

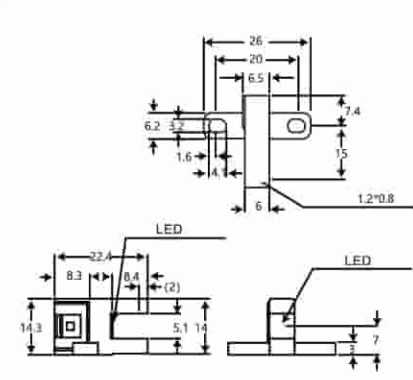
K-type



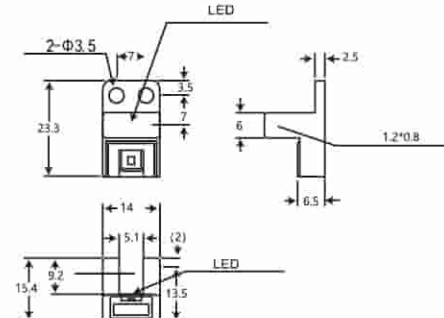
L-shaped



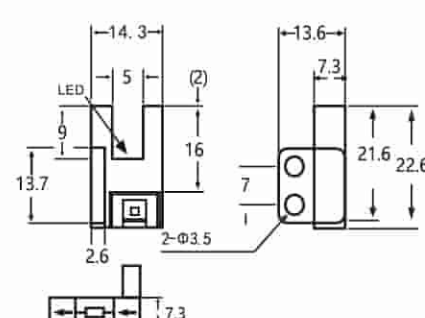
T-shaped



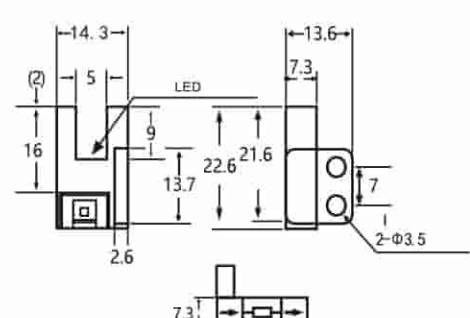
Y-shaped



F-type

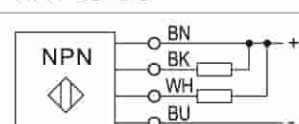


R-type



Wiring Diagram

NPN LO+DO



PNP LO+DO

