

PW45 Series Slot-type Photoelectric Sensor



- Feature
- 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

PW45	-	L	NA	05
Series	Type	Output Mode	Length of power cord	
PW45 Series	K L F R	N:NPN	0.3:3M 0.5:5M	

Type

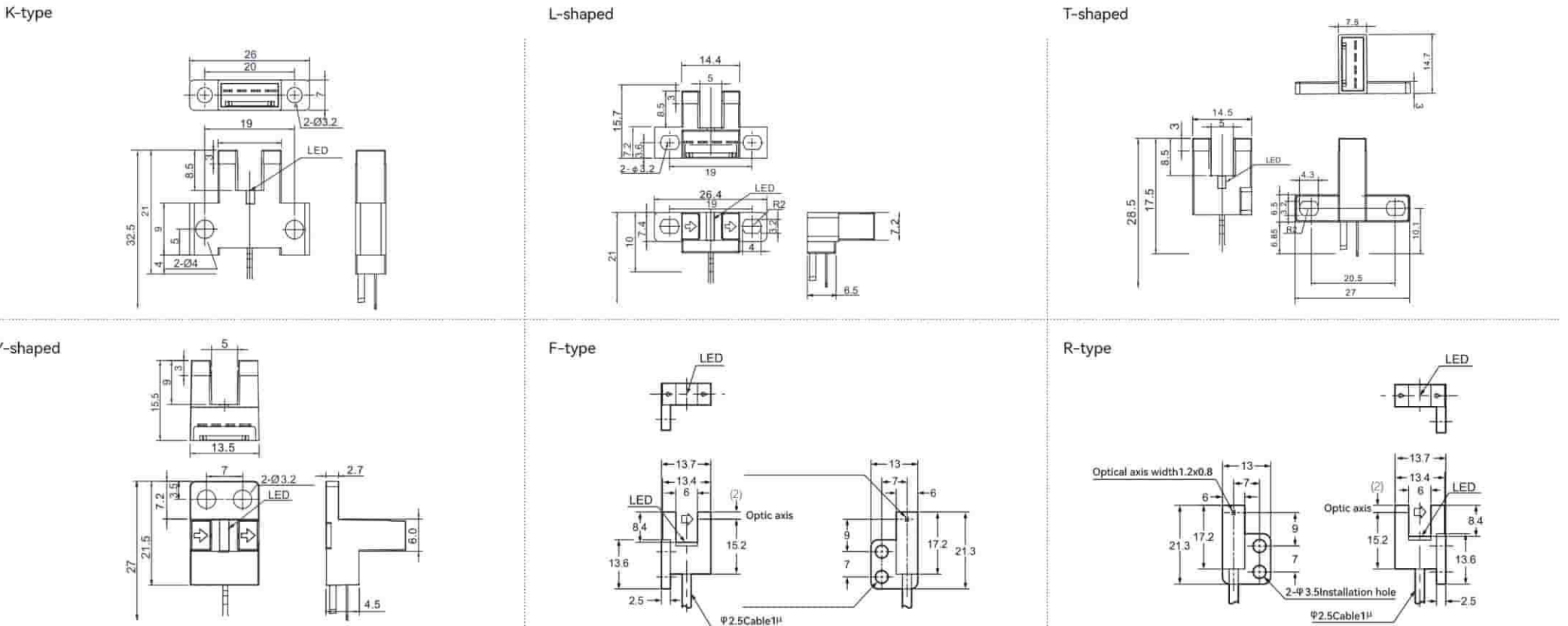
2M Pre-Wired Models	NPN	PW45-KN	PW45-LN	PW45-TN	PW45-YN	PW45-FN	PW45-RN
	PNP	PW45-KP	PW45-LP	PW45-TP	PW45-YP	PW45-FP	PW45-RP
5M Pre-Wired Models	NPN	PW45-KN05	PW45-LN05	PW45-TN05	PW45-YN05	PW45-FN05	PW45-RN05
	PNP	PW45-KP05	PW45-LP05	PW45-TP05	PW45-YP05	PW45-FP05	PW45-RP05

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	IP64(IEC)
Materials	Case: Polybutylene terephthalate (PBT), Emitter/Receiver: Polycarbonate (PC)

Dimension Diagram

Unit: mm



Wiring Diagram

