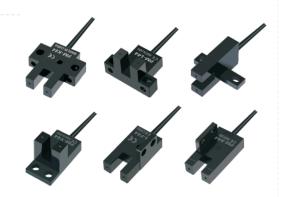
# Micro U-shaped Photoelectric Switch ■PM-□44

- Light-ON and Dark-ON are adjustable
- Response frequency: 2K HZ
- Power supply: 5-24 V DC



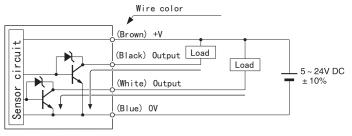
## **Standard Models**

Appearance		Operation Mode		Indicator mode	Connection Method	Output	
						NPN	PNP
K-shaped		Dark ON	Adjusta -ble	Light ON	Pre-wired (1m)	PM-K44	PM-K44P
		Light ON		Dark ON			
T-shaped		Dark ON		Light ON		PM-T44	PM-T44P
		Light ON		Dark ON			
L-shaped		Dark ON		Light ON		PM-L44	PM-L44P
		Light ON		Dark ON			
Y-shaped		Dark ON		Light ON		PM-Y44	PM-Y44P
		Light ON		Dark ON			
F-shaped		Dark ON		Light ON		PM-F44	PM-F44P
		Light ON		Dark ON			
R-shaped		Dark ON		Light ON		PM-R44	PM-R44P
		Light ON		Dark ON			

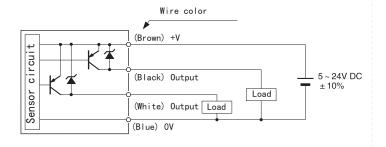
# I/O Circuit Diagram

NPN

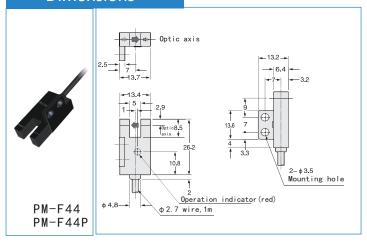
PNP



Note: White wire (Dark-ON), Black wire (Light-ON)

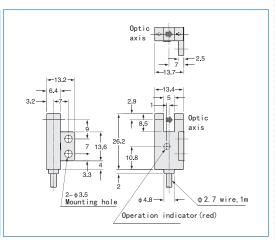


#### **Dimensions**





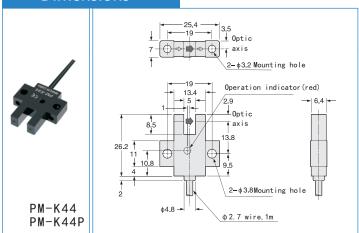
PM-R44P



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Ratings and Specification		OH5					
Sensing method		Thru-beam in the slot					
Sensing distance		5mm(slot width)					
Standard sensing object		Opaque object, 1.8x0.8mm min.					
Hysteresis		0.025mm max.					
Light sou	urce(wave length)	Infrared LED (940nm)					
Power supply		5-24V DC ±10%, ripple (P-P±10% max.)					
Current Consumption		15mA max.					
Output		NPN open-collector transistor: Sink current:50mA max. Applied voltage: 30V DC max. (between output and 0V) Residual voltage: 0.7V max. (at 50mA sink current), 0.4V max. (at 16mA sink current)  PNP open-collector transistor: Source current: 50mA max. Applied voltage: 30V DC max. (between output and +V) Residual voltage: 0.7V max. (at 50mA source current), 0.4V max. (at 16mA source current)					
Response frequency		1K HZ min. (average 3K HZ)					
Ambient illumination		Incandescent lamp: 1,000 Lx max.					
Ambient temperature		Operating: -25 to 55°C, Storage: -30 to 80°C (with no icing or condensation)					
Ambient humidity		Operating: 5%-85%RH, Storage: 5%-95%RH (with no icing or condensation)					
Vibration resistance		Destruction: 20-2,000HZ, 1.5mm double amplitude for 2 hours each in X,Y and Z directions					
Shock resistance		Destruction: acceleration of 500 m/s $^2$ , 3 times each in X, Y, and Z directions					
Protection degree		IP50 by IEC60529					
Connection method		Pre-wired (Standard: 1m, wire length customizable)					
	Case	PBT					
Meterial	Emitter and receivrer cover	Polycarbonate					

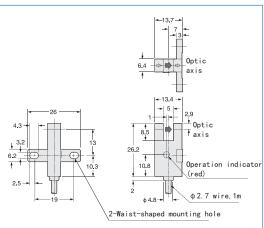
## **Dimensions**





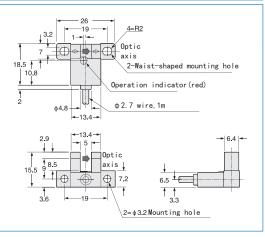
PM-T44

PM-T44P





PM-L44 PM-L44P





PM-Y44 PM-Y44P

