

PU series

U-Shaped type Photoelectric Sensors

- Solid die casting case
- Detecting distance 30/50 mm
- Optic axis control unnecessary
- Attached sensitivity adjustment volume



Specification

Model	PU-30	PU-30S	PU-50	PU-50S
Sensing method	Through-beam			
Sensing distance	30 mm		50 mm	
Sensing object	Ø2 mm min (Opaque body)	Ø0.6 mm min (Opaque body)	Ø1.5 mm min (Opaque body)	Ø0.4 mm min (Opaque body)
Power supply voltage	12 - 24 V d.c. ± 10 %			
Current consumption	30 mA max			
Control output	NPN Voltage output, Load current : 200 mA (30 V d.c.) max, Remaining voltage : 2 V d.c. max			
Output action	L.ON/D.ON selected by the power reverse connection			
Response time	1 ms max			
Light source (wave length)	Infrared LED			
Operation Lamp	Operation Indicator : Red LED, Power Indicator : Green LED			
Sensitivity adjustment	Fixed	By the volume	Fixed	By the volume
Protective circuit	Output short protective circuit			
Ambient illumination	•Sunlight : 11,000 Lux max •Incandescent lamp : 3,000 Lux max			
Ambient temperature	operating temperature : -20 ~ 60 °C During storage : -25 ~ 70 °C (Without condensation or icing)			
Ambient humidity	35 ~ 85 % RH (With no condensation)			
Protective structure	IP 65 (IEC)			
Insulation resistance	More than 20 MΩ (500 V d.c. mega)			
Dielectric strength	1,000 V a.c. (50/60 Hz for 1 minute)			
Vibration resistance	10 - 55 Hz double amplitude 1.5 mm, for 2 hours each in X · Y · Z directions			
Shock resistance	500 m/s ² , 3 times each in X · Y · Z directions			
Connection method	Cable withdrawal type (number of wires : 3P, outer diameter : Ø4 mm, length : 2 m)			
Material	Case : ZN, Lens : PC			
Certification				
Weight	Approx. 250g (Included the weight of box)			

- Please note that response time varies depending on the size of sensing object, surface condition, existence of gloss and etc.