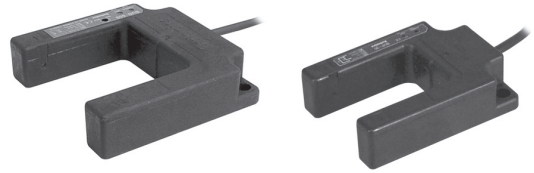


Reinforced Plastic Case U-shaped Type

■ Features

- Improves noise resistance to disturbance light
- Max. 1ms high speed response type
- Built-in reverse polarity protection circuit and output overcurrent (short-circuit) protection circuit
- Light ON / Dark ON Selectable by control wire
- Protection structure IP66 (IEC standard)
: BUP-30, BUP-50



⚠ Please read "Caution for your safety" in operation manual before using.



■ Specifications

Model	NPN open collector output	BUP-30	BUP-30S	BUP-50	BUP-50S
	PNP open collector output	BUP-30-P	BUP-30S-P	BUP-50-P	BUP-50S-P
Sensing type	Through-beam				
Sensing target	Opaque materials of min. Ø4mm		Opaque materials of min. Ø1.5mm		Opaque materials of min. Ø4mm
Operation mode	Selectable Light ON or Dark ON by control wire				
Sensing distance	30mm			50mm	
Response speed	Max. 1ms				
Power supply	12-24VDC ±10% (ripple P-P: max. 10%)				
Current consumption	Max. 30mA				
Light source	Infrared LED (940nm)				
Sensitivity adjustment	Fixed		Sensitivity adjuster		Fixed
Control output	NPN or PNP open collector output ●Load voltage: Max. 30VDC ●Load current: Max. 200mA ●Residual voltage - NPN: Max. 1V, PNP: Max. 2.5V				
Protection circuit	Reverse polarity protection circuit, output overcurrent (short-circuit) protection circuit				
Indication	Power indicator: green LED, Operation indicator: red LED				
Insulation resistance	Over 20MΩ (at 500VDC megger)				
Noise immunity	±240V the square wave noise (pulse width: 1μs) by the noise simulator				
Dielectric strength	1,000VAC 50/60Hz for 1 minute				
Vibration	1.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours				
Shock	500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times				
Environment	Ambient illumination	Sunlight: Max. 11,000lx Incandescent lamp: Max. 3,000lx (receiving illumination)			
	Ambient temperature	-25 to 65°C[BUP-30S (-P) & BUP-50S (-P)] -10 to 60°C, storage: -25 to 70°C			
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH			
Protection structure	IP66 (IEC standard)		IP50 (IEC standard)		IP66 (IEC standard)
Material	Case: Acrylonitrile butadiene styrene, Cap: Polycarbonate				
Cable	Ø4mm, 4-wire, 2m (AWG22, core diameter: 0.08mm, number of cores: 60, insulation out diameter: Ø1.25mm)				
Accessory	—		Adjuster driver		—
Approval	CE				
Unit weight	Approx. 90g			Approx. 140g	

※The temperature or humidity mentioned in Environment indicates a non freezing or condensation environment.

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

