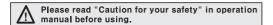
DC U-Shaped Type

Reinforced plastic case U-Shaped type photoelectric sensor

■ Features

- ●High speed response type
- •Includes overcurrent protection, Reverse power polarity protection
- •Selectable Light / Dark ON mode by control wire
- •Waterproof structure by IP66 (IEC standard) : BUP-30, BUP-50







Specifications

Specifications			BUP series will be available from February, 200	
Model	BUP-30	BUP-30S	BUP-50	BUP-50S
Sensing type	Transmitted beam			
Sensing target	Opaque materials of min. ϕ 4mm	Opaque materials of min. ∮1.5mm	Opaque materials of min. ∮4mm	Opaque materials of min. ϕ 1.5mm
Operation mode	Selectable Light ON / Dark ON mode by control wire			
Sensing distance	30mm		50mm	
Response time	Max. 1ms			
Power supply	12-24VDC ±10%(Ripple P-P: Max. 10%)			
Current consumption	Max. 30mA			
Light source	Infrared LED(modulated)			
Sensitivity adjustment	Fixed	Adjustable VR	Fixed	Adjustable VR
Control output	NPN open collector output 🖙 Load voltage : Max. 30VDC, Load current : Max. 200mA, Residual voltage : Max. 1V			
Protection circuit	Reverse polarity protection, Short-circuit protection			
Indication	Power indicator : Green LED, Operation indicator : Red LED			
Connection	Outgoing cable			
Insulation resistance	Min. 20MΩ (at 500VDC)			
Noise strength	$\pm 240 \mathrm{V}$ the square wave noise(pulse width:1 μ s) by the noise simulator			
Dielectric strength	500VAC 50/60Hz for 1 minute			
Vibration	1.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 2 hours			
Shock	500m/s ² (50G) in X, Y, Z directions for 3 times			
Ambient illumination	Sunlight: Max. 11,000/x Incandescent lamp: Max. 3.000/x			
Ambient temperature	-25 ~ +65℃ <bup-30s +60℃="" -10="" and="" bup-50s:="" ~="">(at non-freezing stauts), Storage: -35 ~ +70℃ (at non-freezing stauts)</bup-30s>			
Ambient humidity	35 ~ 85%RH, Storage : 35 ~ 85%RH			
Protection	IP65 (IEC standard)	IP50(IEC standard)	IP66(IEC standard)	IP50(IEC standard
Material	Case: ALDC12, Cover: PC			
Cable	4P, Ø4mm, Length: 2m			
Accessory		Adjustment driver		Adjustment driver
Approval	C€			
Unit weight	Approx. 140g			

(A) Counter

(B) Timer

(C) Temp.

(D) Power controller

Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

Sensor controller

Switching power supply

(J) Proximity sensor

Photo electric sensor

Pressure sensor

Rotary encoder

(N) Stepping motor & Driver & Controller

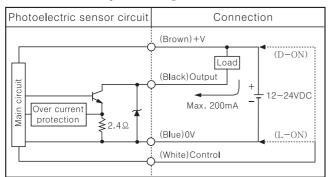
(0) Graphic panel

(P) Production stoppage models & replacement

Autonics K - 52

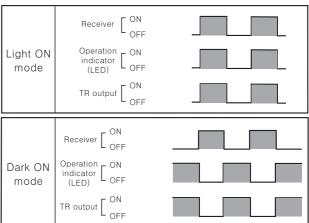
BUP Series

■Control output diagram

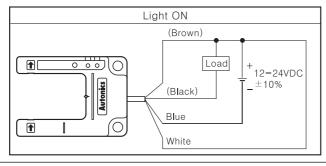


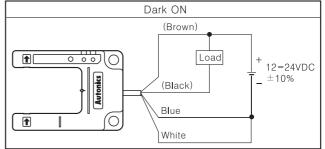
**Selectable Light ON / Dark ON mode by control wire.

Operation mode

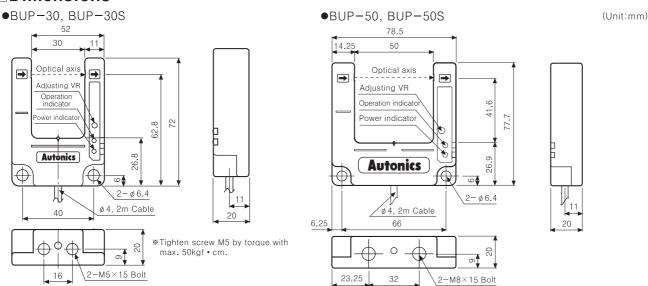


■Connections



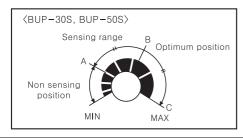


Dimensions



Installation and sensitivity adjustment

Please supply the power to the sensor after mount the emitter and the receiver facing each other, and then adjust an optical axis and the sensitivity as follow;



- **Sensing target at a position to be detected by the beam, then turn the adjuster until position A in the middle of the operation range of indicator(Dark ON mode) or indicator is turned off(Light ON mode) (It is able to operate in min. sensitivity position.)
 - Adjust VR at "B", in the middle of two switching A, C.

K-53 Autonics