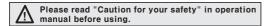
Slim photoelectric sensor for long sensing distance

■Features

- Easy to mount by Flat type
- •Realization of 3m sensing distance as small size
- •IP67 rated waterproof structure (IEC standard)







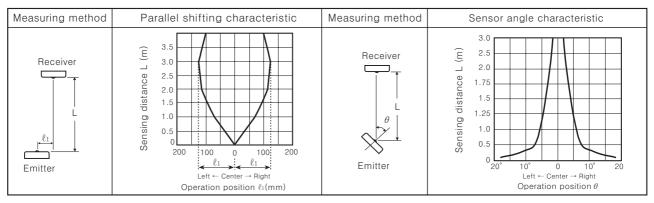
■Specifications

Model	BPS3M-TDT	BPS3M-TDTL	BPS3M-TDT-P	BPS3M-TDTL-P
Sensing type	Transmitted beam			
Sensing target	Opaque materials of Min. ϕ 5mm			
Operation mode	Dark ON	Light ON	Dark ON	Light ON
Sensing distance	3m			
Response time	Max. 1ms			
Power supply	12-24VDC ±10% (Ripple P-P : Max. 10%)			
Current consumption	Max. 20mA			
Light source	Infrared LED(modulated)			
Control output	NPN open collector output Load voltage: Max. 30VDC, Load current: Max.100mA, Residual voltage: Max.1V		PNP open collector output Output voltage: (Min. Power supply-2.5V), Load current: Max. 100mA	
Protection circuit	Reverse polarity protection, Short-circuit protection			
Indicator	Emitter: Power indicator(Red LED), Receiver: Operation indicator(Red LED)			
Connection	Outgoing cable			
Insulation resistance	Min. 20MΩ (at 500VDC mega)			
Noise strength	$\pm 240 \mathrm{V}$ the square wave noise (pulse width: $1\mu\mathrm{s}$) by the noise simulator			
Dielectric strength	1,000VAC 50/60Hz for 1minute			
Vibration	1.5mm amplitude at frequency of 10 \sim 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℃ (at non-freezing status), Storage: -25 ~ +70℃			
Ambient humidity	35~ 85%RH, Storage : 35 ~ 90%RH			
Protection	IP67 (IEC standard)			
Material	Case: PC			
Cable	• Emitter: ∅3mm, 2P • Receiver: ∅3mm, 3P • Length: 2m			
Approval	CE			
Unit weight	Approx. 66g			

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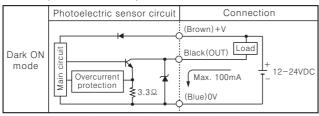
Slim and Amplifier Built-in Type

■ Feature data

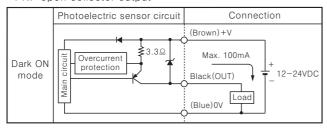


■Control output diagram

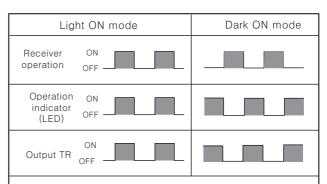
●NPN open collector output



•PNP open collector output



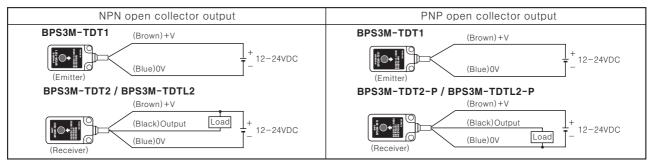
Operation mode



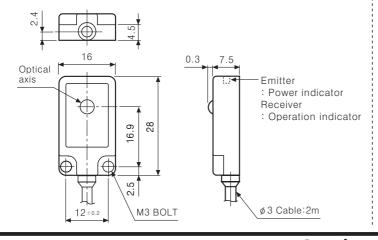
Note) If the control output terminal is short-circuited or over current condition is exited the control output will turn off due to protection circuit.

Note)Dark ON mode is standard and Light ON (Received light : ON) mode is sold separately.

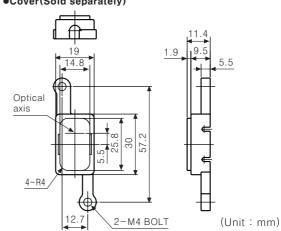
Connections



Dimensions



●Cover(Sold separately)



(A) Counter

(B) Timer

(C) Temp.

> (D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement

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