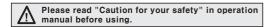
Slim, Long detecting distance type

■Features

- Easy to mount by Flat type
- •Realization of 3M detecting distance as small size
- •Water proof structure by IP 67 (IEC specification)







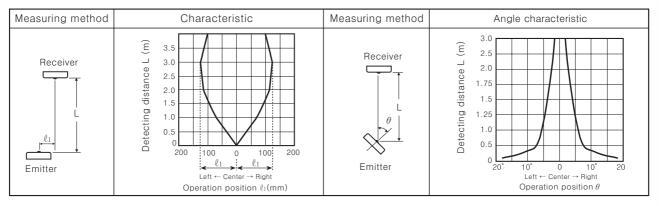
■Specifications

Model	BPS3M-TDT	BPS3M-TDTL	BPS3M-TDT-P	BPS3M-TDTL-P
Type	Through beam			
Detecting target	Opaque materials of Min. Ø 5mm			
Operation mode	Dark ON mode	Light ON mode	Dark ON mode	Light ON mode
Detecting 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			
Indication	Emitter: Power indicator(Red LED), Receiver: Operation indicator(Red LED)□			
Connection	Outgoing cable			
Insulation resistance	Min. 20MΩ (at 500VDC)			
Noise strength	$\pm 240 \text{V}$ the square wave noise(pulse width:1 μ 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 °C (at non-freezing status), Storage: -25 ~ +70 °C			
Ambient humidity	35~ 85%RH, Storage : 35 ~ 90%RH			
Protection	IP67 (IEC specification)			
Material	Case: PC			
Cable	• Emi	tter∶ ø 3mm, 2P • Ree	ceiver∶ ø3mm, 3P, Leng	gth: 2m
Approval	CE			
Weight	Approx. 66g			

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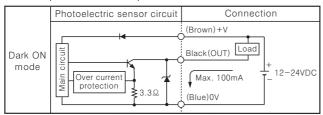
DC Through Beam, IP67 Housing Type

■ Characteristic

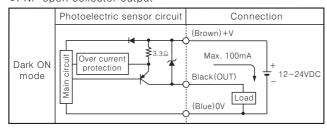


■Control output diagram

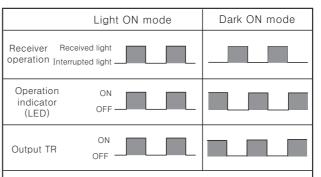
●NPN open collector output



●PNP open collector output



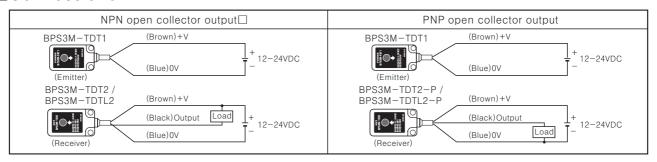
Operation mode



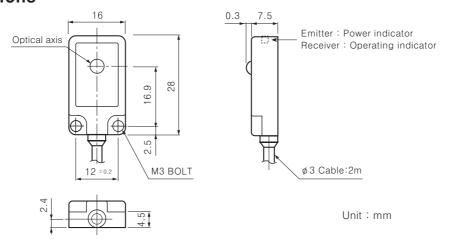
Note) If the control output terminal is short-circuited or if over current condition exists, the control output will turn off due to protection circuit.

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

Connections



Dimensions



(A) Counter

(B) Timer

(C) Temp.

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Proximity

(J) Photo electric sensor

Pressure sensor

(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

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