

BPS SERIES

■ Features

- Easy to mount by flat housing design.
- Miniature type but 3m detection distance.
- IP67(IEC spec.)



■ Ordering information

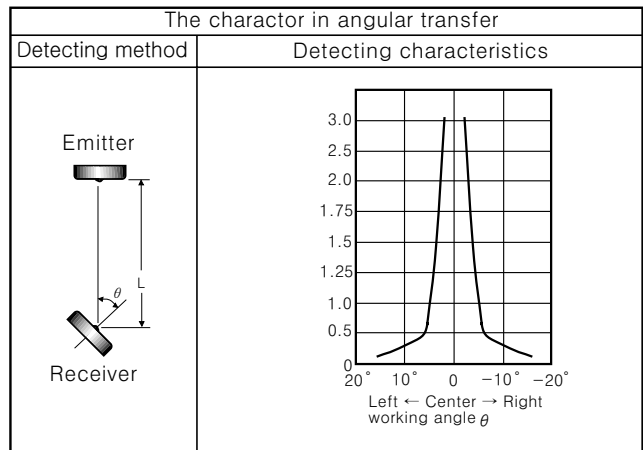
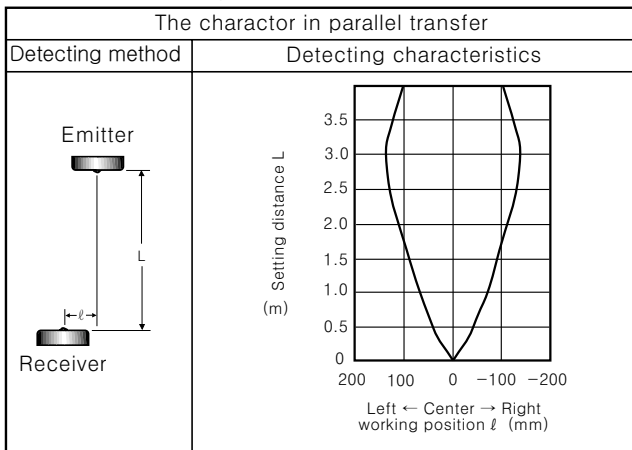
Type	Detecting distance	Model	Operating voltage	Operating mode	Output
Through ↑ ↓	3m	BPS3M-TDT	DC \square \square	Dark ON type	NPN open collector output
		BPS3M-TDT-P			PNP open collector output

■ Specification

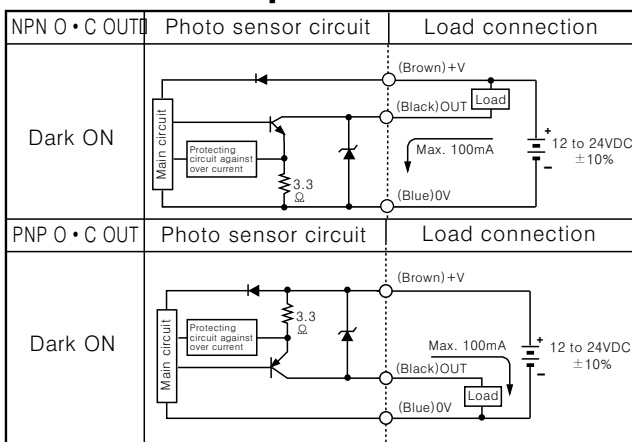
Type	Through	
Model	BPS3M-TDT	BPS3M-TDT-P
Detecting target	Opaque materials of min. ϕ 5mm	
Operation mode	Dark ON mode	
Detecting distance□	3M	
Response time	Max. 1mS	
Power supply	12 to 24VDC \pm 10% (Ripple P-P : Max. 10%)	
Current consumption	Max. 20mA	
Source of light	Infrared LED(Modulated)	
Control output	NPN open collector output \square Load voltage Max. 30VDC Load current Max. 100mA, Residual voltage Max. 1V□	PNP open collector output \square Output voltage (power supply-Min.2.5V), Load current Max. 100mA
Protecting circuit	Reverse polarity protection, Short-circuit protection	
Indicator	Emitter : Power indicator : Red LED, Receiver : Operating indicator : Red LED	
Connection	Cable connection	
Insulation resistance	Min. 20M Ω (500VDC)□□	
Noise strength	Power line \pm 240V at pulse band 1 μ s of noise simulation	
Dielectirc strength□	500VAC 50/60Hz for 1 minute	
Vibration	1.5mm amplitude at frquency of 10 to 55Hz in each of X, Y, Z directions for 2 hours	
Shock	500m/s ² (50G) X, Y, Z directions for 3 times	
Ambient operating illumination	Sunlight : Max. 11000Lux, Incandescent lamp : Max. 3000Lux.□□□□	
Ambient temperature	Operating:-25 to +65 $^{\circ}$ C(non-freezing condition), Storage:-25 to +70 $^{\circ}$ C□	
Humidity	35 to 85%RH , Storage : 35 to 90%RH	
Protection	IP67(IEC)□□	
Material	Case : PC	
Cable	Emitter:Ø3, 2P, Receiver:Ø3, 3P, Length:2M	
Weight	About 66 g	

*The weight of above chart is net weight.

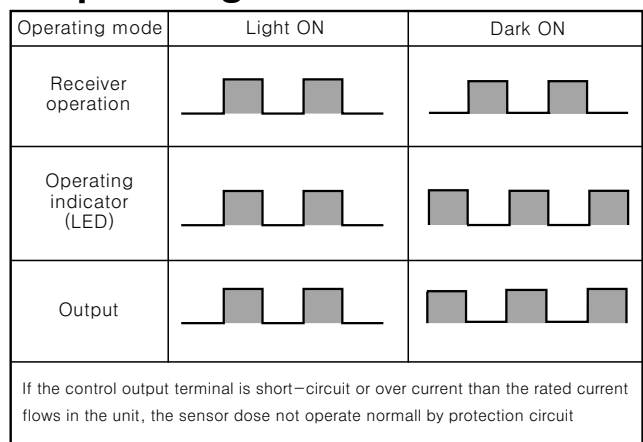
■ Detecting characteristics



■ Control output circuit

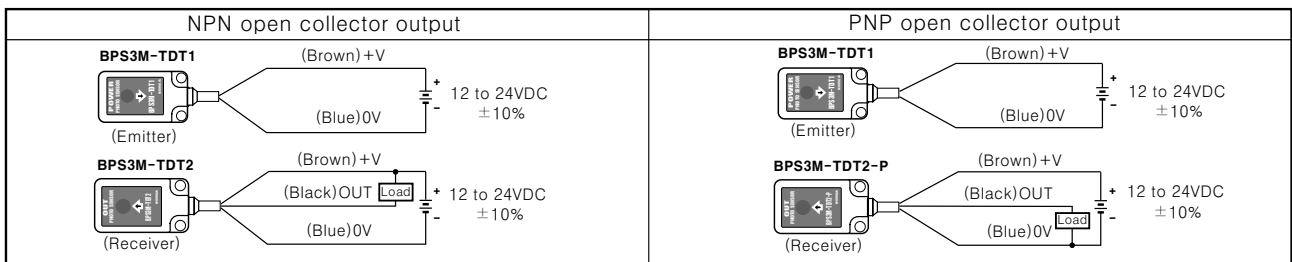


■ Operating mode



*Optional : Light ON

■ Connection



■ Dimension

